

## ภาคผนวก ค

เอกสารประกอบมาตรการการติดตามตรวจสอบ

ผลกระทบสิ่งแวดล้อม

# ภาคผนวก ค-1

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ใบรับรองผลการตรวจวิเคราะห์

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## คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599747  
Date Received : Nov 11, 2025  
Date Reported : Nov 17, 2025  
Report Number: 3437018-1

Page 1 of 1

Sample Description Air Quality  
Location วัดสวนหลวง (GPS 47P 744062, 1420454)  
Parameter Sulfur Dioxide (ppm)  
Measurement Date Oct 31, 2025 - Nov 07, 2025  
Measurement by Norranon Tathongkham

Time	2599747-1 Oct 31, 2025	2599747-2 Nov 01, 2025	2599747-3 Nov 02, 2025	2599747-4 Nov 03, 2025	2599747-5 Nov 04, 2025	2599747-6 Nov 05, 2025	2599747-7 Nov 06, 2025
10:00 AM - 11:00 AM	0.0068	0.0068	0.0067	0.0067	0.0067	0.0066	0.0066
11:00 AM - 12:00 PM	0.0070	0.0065	0.0068	0.0068	0.0064	0.0067	0.0066
12:00 PM - 01:00 PM	0.0069	0.0066	0.0068	0.0068	0.0063	0.0068	0.0065
01:00 PM - 02:00 PM	0.0070	0.0068	0.0066	0.0065	0.0064	0.0066	0.0065
02:00 PM - 03:00 PM	0.0067	0.0066	0.0066	0.0066	0.0065	0.0065	0.0064
03:00 PM - 04:00 PM	0.0066	0.0067	0.0064	0.0064	0.0065	0.0065	0.0064
04:00 PM - 05:00 PM	0.0068	0.0064	0.0064	0.0065	0.0064	0.0063	0.0063
05:00 PM - 06:00 PM	0.0066	0.0064	0.0064	0.0064	0.0064	0.0064	0.0063
06:00 PM - 07:00 PM	0.0066	0.0065	0.0064	0.0065	0.0063	0.0064	0.0063
07:00 PM - 08:00 PM	0.0065	0.0065	0.0066	0.0065	0.0064	0.0064	0.0064
08:00 PM - 09:00 PM	0.0067	0.0065	0.0066	0.0064	0.0066	0.0066	0.0063
09:00 PM - 10:00 PM	0.0066	0.0064	0.0063	0.0067	0.0066	0.0066	0.0064
10:00 PM - 11:00 PM	0.0066	0.0066	0.0066	0.0064	0.0066	0.0065	0.0065
11:00 PM - 12:00 AM	0.0064	0.0064	0.0067	0.0067	0.0064	0.0066	0.0063
12:00 AM - 01:00 AM	0.0064	0.0065	0.0068	0.0070	0.0065	0.0068	0.0062
01:00 AM - 02:00 AM	0.0066	0.0064	0.0067	0.0068	0.0066	0.0064	0.0064
02:00 AM - 03:00 AM	0.0068	0.0065	0.0066	0.0067	0.0065	0.0065	0.0062
03:00 AM - 04:00 AM	0.0062	0.0066	0.0062	0.0066	0.0064	0.0066	0.0061
04:00 AM - 05:00 AM	0.0061	0.0063	0.0065	0.0064	0.0066	0.0063	0.0060
05:00 AM - 06:00 AM	0.0061	0.0065	0.0063	0.0067	0.0064	0.0065	0.0062
06:00 AM - 07:00 AM	0.0063	0.0065	0.0065	0.0064	0.0065	0.0065	0.0063
07:00 AM - 08:00 AM	0.0065	0.0064	0.0066	0.0067	0.0065	0.0064	0.0064
08:00 AM - 09:00 AM	0.0065	0.0066	0.0066	0.0067	0.0065	0.0065	0.0063
09:00 AM - 10:00 AM	0.0069	0.0066	0.0070	0.0068	0.0067	0.0064	0.0062
Average	0.0066	0.0065	0.0066	0.0066	0.0065	0.0065	0.0063
1hr - Maximum	0.0070	0.0068	0.0070	0.0070	0.0067	0.0068	0.0066
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by

Saranya C.

Saranya Chalermthamrong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599747  
Date Received : Nov 11, 2025  
Date Reported : Nov 17, 2025  
Report Number: 3449465-1

Page 1 of 1

Sample Description Air Quality  
Location รพ.สต.บ้านคลองน้ำเย็น (GPS 47P 747473, 1419148)  
Parameter Sulfur Dioxide (ppm)  
Measurement Date Oct 31, 2025 - Nov 07, 2025  
Measurement by Norranon Tathongkham

Time	2599747-8 Oct 31, 2025	2599747-9 Nov 01, 2025	2599747-10 Nov 02, 2025	2599747-11 Nov 03, 2025	2599747-12 Nov 04, 2025	2599747-13 Nov 05, 2025	2599747-14 Nov 06, 2025
10:00 AM - 11:00 AM	0.0030	0.0029	0.0028	0.0029	0.0028	0.0029	0.0030
11:00 AM - 12:00 PM	0.0030	0.0029	0.0028	0.0027	0.0028	0.0029	0.0030
12:00 PM - 01:00 PM	0.0030	0.0023	0.0025	0.0028	0.0028	0.0029	0.0030
01:00 PM - 02:00 PM	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0030
02:00 PM - 03:00 PM	0.0034	0.0028	0.0028	0.0028	0.0028	0.0029	0.0029
03:00 PM - 04:00 PM	0.0034	0.0028	0.0028	0.0027	0.0028	0.0029	0.0030
04:00 PM - 05:00 PM	0.0033	0.0028	0.0028	0.0027	0.0028	0.0029	0.0029
05:00 PM - 06:00 PM	0.0033	0.0028	0.0029	0.0027	0.0028	0.0029	0.0029
06:00 PM - 07:00 PM	0.0034	0.0028	0.0029	0.0027	0.0029	0.0029	0.0029
07:00 PM - 08:00 PM	0.0032	0.0029	0.0029	0.0027	0.0028	0.0029	0.0029
08:00 PM - 09:00 PM	0.0032	0.0024	0.0028	0.0028	0.0029	0.0029	0.0028
09:00 PM - 10:00 PM	0.0032	0.0027	0.0028	0.0027	0.0028	0.0030	0.0028
10:00 PM - 11:00 PM	0.0032	0.0028	0.0029	0.0027	0.0029	0.0030	0.0028
11:00 PM - 12:00 AM	0.0032	0.0027	0.0029	0.0028	0.0028	0.0030	0.0029
12:00 AM - 01:00 AM	0.0031	0.0028	0.0029	0.0028	0.0028	0.0030	0.0028
01:00 AM - 02:00 AM	0.0031	0.0028	0.0029	0.0028	0.0029	0.0031	0.0028
02:00 AM - 03:00 AM	0.0031	0.0028	0.0029	0.0028	0.0029	0.0029	0.0028
03:00 AM - 04:00 AM	0.0031	0.0028	0.0029	0.0028	0.0029	0.0030	0.0030
04:00 AM - 05:00 AM	0.0031	0.0029	0.0029	0.0028	0.0030	0.0030	0.0029
05:00 AM - 06:00 AM	0.0030	0.0028	0.0029	0.0028	0.0029	0.0029	0.0029
06:00 AM - 07:00 AM	0.0030	0.0029	0.0028	0.0028	0.0029	0.0029	0.0029
07:00 AM - 08:00 AM	0.0031	0.0029	0.0028	0.0028	0.0030	0.0029	0.0029
08:00 AM - 09:00 AM	0.0030	0.0028	0.0028	0.0029	0.0029	0.0030	0.0029
09:00 AM - 10:00 AM	0.0029	0.0028	0.0028	0.0028	0.0029	0.0029	0.0029
Average	0.0031	0.0028	0.0028	0.0028	0.0029	0.0029	0.0029
1hr - Maximum	0.0034	0.0029	0.0029	0.0029	0.0030	0.0031	0.0030
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by

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Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599747**  
Date Received : Nov 11, 2025  
Date Reported : Nov 17, 2025  
Report Number: 3449469-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** บ้านสวนนก (GPS 47P 742172, 1417901)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Oct 31, 2025 - Nov 07, 2025  
**Measurement by** Norranon Tathongkham

Time	2599747-15 Oct 31, 2025	2599747-16 Nov 01, 2025	2599747-17 Nov 02, 2025	2599747-18 Nov 03, 2025	2599747-19 Nov 04, 2025	2599747-20 Nov 05, 2025	2599747-21 Nov 06, 2025
11:00 AM - 12:00 PM	0.0066	0.0067	0.0082	0.0076	0.0085	0.0075	0.0076
12:00 PM - 01:00 PM	0.0061	0.0066	0.0095	0.0077	0.0075	0.0074	0.0076
01:00 PM - 02:00 PM	0.0047	0.0075	0.0076	0.0077	0.0074	0.0077	0.0078
02:00 PM - 03:00 PM	0.0063	0.0067	0.0074	0.0085	0.0073	0.0077	0.0078
03:00 PM - 04:00 PM	0.0062	0.0066	0.0071	0.0080	0.0075	0.0077	0.0078
04:00 PM - 05:00 PM	0.0062	0.0067	0.0071	0.0076	0.0073	0.0076	0.0089
05:00 PM - 06:00 PM	0.0062	0.0069	0.0073	0.0078	0.0078	0.0073	0.0082
06:00 PM - 07:00 PM	0.0063	0.0073	0.0072	0.0074	0.0078	0.0075	0.0082
07:00 PM - 08:00 PM	0.0061	0.0073	0.0071	0.0072	0.0076	0.0073	0.0074
08:00 PM - 09:00 PM	0.0059	0.0078	0.0071	0.0071	0.0074	0.0075	0.0074
09:00 PM - 10:00 PM	0.0060	0.0077	0.0072	0.0070	0.0077	0.0075	0.0079
10:00 PM - 11:00 PM	0.0061	0.0068	0.0068	0.0069	0.0074	0.0076	0.0079
11:00 PM - 12:00 AM	0.0060	0.0069	0.0070	0.0070	0.0074	0.0074	0.0076
12:00 AM - 01:00 AM	0.0062	0.0069	0.0071	0.0069	0.0074	0.0077	0.0078
01:00 AM - 02:00 AM	0.0063	0.0071	0.0076	0.0071	0.0071	0.0076	0.0075
02:00 AM - 03:00 AM	0.0065	0.0068	0.0074	0.0075	0.0070	0.0076	0.0079
03:00 AM - 04:00 AM	0.0065	0.0068	0.0073	0.0069	0.0070	0.0077	0.0083
04:00 AM - 05:00 AM	0.0065	0.0069	0.0070	0.0077	0.0073	0.0076	0.0081
05:00 AM - 06:00 AM	0.0067	0.0069	0.0072	0.0077	0.0073	0.0075	0.0081
06:00 AM - 07:00 AM	0.0065	0.0070	0.0072	0.0083	0.0080	0.0075	0.0083
07:00 AM - 08:00 AM	0.0066	0.0070	0.0071	0.0076	0.0076	0.0076	0.0080
08:00 AM - 09:00 AM	0.0074	0.0069	0.0073	0.0076	0.0080	0.0073	0.0084
09:00 AM - 10:00 AM	0.0078	0.0071	0.0071	0.0079	0.0075	0.0077	0.0089
10:00 AM - 11:00 AM	0.0071	0.0070	0.0080	0.0083	0.0075	0.0076	0.0085
Average	0.0064	0.0070	0.0074	0.0075	0.0075	0.0075	0.0080
1hr - Maximum	0.0078	0.0078	0.0095	0.0085	0.0085	0.0077	0.0089
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

Approved by

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599747**  
Date Received : Nov 11, 2025  
Date Reported : Nov 17, 2025  
Report Number: 3449470-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** บ้านตลกสัดบัน (GPS 47P 747552, 1413909)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Oct 31, 2025 - Nov 07, 2025  
**Measurement by** Norranon Tathongkham

Time	2599747-22 Oct 31, 2025	2599747-23 Nov 01, 2025	2599747-24 Nov 02, 2025	2599747-25 Nov 03, 2025	2599747-26 Nov 04, 2025	2599747-27 Nov 05, 2025	2599747-28 Nov 06, 2025
09:00 AM - 10:00 AM	0.0070	0.0070	0.0070	0.0070	0.0071	0.0086	0.0099
10:00 AM - 11:00 AM	0.0070	0.0070	0.0070	0.0070	0.0071	0.0087	0.0100
11:00 AM - 12:00 PM	0.0070	0.0070	0.0070	0.0070	0.0072	0.0087	0.0100
12:00 PM - 01:00 PM	0.0069	0.0070	0.0070	0.0070	0.0072	0.0088	0.0100
01:00 PM - 02:00 PM	0.0069	0.0070	0.0070	0.0070	0.0073	0.0088	0.0101
02:00 PM - 03:00 PM	0.0069	0.0070	0.0070	0.0070	0.0074	0.0089	0.0102
03:00 PM - 04:00 PM	0.0070	0.0070	0.0070	0.0070	0.0074	0.0090	0.0102
04:00 PM - 05:00 PM	0.0070	0.0070	0.0070	0.0070	0.0075	0.0090	0.0102
05:00 PM - 06:00 PM	0.0070	0.0070	0.0070	0.0070	0.0076	0.0091	0.0103
06:00 PM - 07:00 PM	0.0070	0.0070	0.0070	0.0070	0.0076	0.0092	0.0103
07:00 PM - 08:00 PM	0.0070	0.0070	0.0070	0.0070	0.0077	0.0092	0.0104
08:00 PM - 09:00 PM	0.0070	0.0070	0.0070	0.0070	0.0078	0.0093	0.0104
09:00 PM - 10:00 PM	0.0070	0.0070	0.0070	0.0070	0.0078	0.0093	0.0105
10:00 PM - 11:00 PM	0.0070	0.0070	0.0070	0.0070	0.0079	0.0094	0.0105
11:00 PM - 12:00 AM	0.0070	0.0070	0.0070	0.0070	0.0080	0.0094	0.0106
12:00 AM - 01:00 AM	0.0070	0.0070	0.0070	0.0070	0.0080	0.0095	0.0106
01:00 AM - 02:00 AM	0.0070	0.0070	0.0070	0.0070	0.0081	0.0095	0.0107
02:00 AM - 03:00 AM	0.0070	0.0070	0.0070	0.0070	0.0081	0.0096	0.0107
03:00 AM - 04:00 AM	0.0070	0.0070	0.0070	0.0070	0.0082	0.0096	0.0108
04:00 AM - 05:00 AM	0.0070	0.0070	0.0070	0.0070	0.0083	0.0096	0.0109
05:00 AM - 06:00 AM	0.0070	0.0070	0.0070	0.0070	0.0084	0.0097	0.0109
06:00 AM - 07:00 AM	0.0070	0.0070	0.0070	0.0070	0.0084	0.0098	0.0110
07:00 AM - 08:00 AM	0.0070	0.0070	0.0070	0.0070	0.0085	0.0098	0.0110
08:00 AM - 09:00 AM	0.0070	0.0070	0.0070	0.0071	0.0085	0.0099	0.0111
Average	0.0070	0.0070	0.0070	0.0070	0.0078	0.0093	0.0105
1hr - Maximum	0.0070	0.0070	0.0070	0.0071	0.0085	0.0099	0.0111
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 : U.S. Environmental Protection Agency, EPA Method Part 53 and 58

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599745

Date Received : Nov 11, 2025

Date Reported : Nov 17, 2025

Report Number: 3437016-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสวนหลวง (GPS 47P 744062, 1420454)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Oct 31, 2025 - Nov 07, 2025  
**Measurement by** Norranon Tathongkham

	2599745-1	2599745-2	2599745-3	2599745-4	2599745-5	2599745-6	2599745-7
Time	Oct 31, 2025	Nov 01, 2025	Nov 02, 2025	Nov 03, 2025	Nov 04, 2025	Nov 05, 2025	Nov 06, 2025
10:00 AM - 11:00 AM	0.0064	0.0041	0.0070	0.0040	0.0038	0.0018	0.0027
11:00 AM - 12:00 PM	0.0092	0.0030	0.0047	0.0160	0.0024	0.0024	0.0039
12:00 PM - 01:00 PM	0.0066	0.0030	0.0072	0.0157	0.0042	0.0033	0.0086
01:00 PM - 02:00 PM	0.0090	0.0039	0.0083	0.0191	0.0062	0.0032	0.0164
02:00 PM - 03:00 PM	0.0074	0.0058	0.0066	0.0184	0.0047	0.0041	0.0174
03:00 PM - 04:00 PM	0.0111	0.0129	0.0084	0.0093	0.0112	0.0040	0.0148
04:00 PM - 05:00 PM	0.0086	0.0097	0.0074	0.0125	0.0109	0.0093	0.0160
05:00 PM - 06:00 PM	0.0098	0.0099	0.0069	0.0082	0.0111	0.0096	0.0146
06:00 PM - 07:00 PM	0.0075	0.0092	0.0066	0.0082	0.0098	0.0066	0.0132
07:00 PM - 08:00 PM	0.0060	0.0065	0.0061	0.0042	0.0070	0.0066	0.0126
08:00 PM - 09:00 PM	0.0035	0.0081	0.0066	0.0051	0.0049	0.0094	0.0119
09:00 PM - 10:00 PM	0.0023	0.0048	0.0064	0.0049	0.0031	0.0104	0.0090
10:00 PM - 11:00 PM	0.0010	0.0028	0.0066	0.0046	0.0038	0.0086	0.0091
11:00 PM - 12:00 AM	0.0013	0.0024	0.0060	0.0040	0.0041	0.0065	0.0077
12:00 AM - 01:00 AM	0.0018	0.0021	0.0027	0.0034	0.0036	0.0049	0.0086
01:00 AM - 02:00 AM	0.0042	0.0021	0.0040	0.0028	0.0033	0.0040	0.0070
02:00 AM - 03:00 AM	0.0028	0.0025	0.0031	0.0034	0.0050	0.0080	0.0080
03:00 AM - 04:00 AM	0.0029	0.0029	0.0029	0.0046	0.0080	0.0069	0.0076
04:00 AM - 05:00 AM	0.0039	0.0036	0.0056	0.0068	0.0048	0.0089	0.0112
05:00 AM - 06:00 AM	0.0042	0.0047	0.0036	0.0052	0.0054	0.0056	0.0088
06:00 AM - 07:00 AM	0.0037	0.0050	0.0058	0.0034	0.0072	0.0033	0.0074
07:00 AM - 08:00 AM	0.0052	0.0095	0.0087	0.0019	0.0102	0.0023	0.0053
08:00 AM - 09:00 AM	0.0060	0.0168	0.0083	0.0020	0.0063	0.0021	0.0040
09:00 AM - 10:00 AM	0.0062	0.0093	0.0042	0.0018	0.0036	0.0018	0.0042
Average	0.0054	0.0060	0.0060	0.0071	0.0060	0.0054	0.0096
1hr - Maximum	0.0111	0.0168	0.0087	0.0191	0.0112	0.0104	0.0174
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 : U.S. Environmental Protection Agency Method Part 50 App. F (Chemiluminescence)

Approved by

*Saranya C.*

Saranya Chalermthamrong  
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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599745

Date Received : Nov 11, 2025

Date Reported : Nov 17, 2025

Report Number: 3449463-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** รพ.สต.บ้านคลองน้ำเย็น (GSP 47P 747473, 1419148)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Oct 31, 2025 - Nov 07, 2025  
**Measurement by** Norranon Tathongkham

	2599745-8	2599745-9	2599745-10	2599745-11	2599745-12	2599745-13	2599745-14
Time	Oct 31, 2025	Nov 01, 2025	Nov 02, 2025	Nov 03, 2025	Nov 04, 2025	Nov 05, 2025	Nov 06, 2025
10:00 AM - 11:00 AM	0.0010	0.0017	0.0019	0.0011	0.0012	0.0012	0.0011
11:00 AM - 12:00 PM	0.0014	0.0013	0.0016	0.0011	0.0010	0.0010	0.0011
12:00 PM - 01:00 PM	0.0014	0.0013	0.0018	0.0012	0.0012	0.0011	0.0011
01:00 PM - 02:00 PM	0.0013	0.0011	0.0016	0.0011	0.0010	0.0011	0.0012
02:00 PM - 03:00 PM	0.0013	0.0012	0.0016	0.0013	0.0010	0.0010	0.0012
03:00 PM - 04:00 PM	0.0011	0.0011	0.0019	0.0013	0.0012	0.0012	0.0010
04:00 PM - 05:00 PM	0.0011	0.0012	0.0013	0.0011	0.0012	0.0012	0.0010
05:00 PM - 06:00 PM	0.0013	0.0012	0.0011	0.0011	0.0012	0.0014	0.0012
06:00 PM - 07:00 PM	0.0018	0.0012	0.0015	0.0011	0.0011	0.0011	0.0013
07:00 PM - 08:00 PM	0.0014	0.0013	0.0021	0.0013	0.0011	0.0011	0.0032
08:00 PM - 09:00 PM	0.0012	0.0012	0.0016	0.0010	0.0014	0.0012	0.0014
09:00 PM - 10:00 PM	0.0012	0.0012	0.0017	0.0012	0.0011	0.0014	0.0014
10:00 PM - 11:00 PM	0.0013	0.0012	0.0014	0.0010	0.0011	0.0016	0.0013
11:00 PM - 12:00 AM	0.0011	0.0011	0.0016	0.0011	0.0012	0.0013	0.0015
12:00 AM - 01:00 AM	0.0010	0.0012	0.0013	0.0011	0.0010	0.0013	0.0015
01:00 AM - 02:00 AM	0.0010	0.0013	0.0012	0.0011	0.0010	0.0012	0.0016
02:00 AM - 03:00 AM	0.0010	0.0013	0.0009	0.0010	0.0011	0.0013	0.0018
03:00 AM - 04:00 AM	0.0012	0.0012	0.0010	0.0010	0.0011	0.0014	0.0020
04:00 AM - 05:00 AM	0.0012	0.0014	0.0011	0.0011	0.0011	0.0019	0.0018
05:00 AM - 06:00 AM	0.0014	0.0020	0.0015	0.0013	0.0014	0.0023	0.0041
06:00 AM - 07:00 AM	0.0022	0.0034	0.0042	0.0012	0.0028	0.0043	0.0043
07:00 AM - 08:00 AM	0.0027	0.0028	0.0019	0.0017	0.0013	0.0024	0.0010
08:00 AM - 09:00 AM	0.0029	0.0021	0.0014	0.0018	0.0013	0.0014	0.0010
09:00 AM - 10:00 AM	0.0013	0.0021	0.0013	0.0011	0.0012	0.0011	0.0014
Average	0.0014	0.0015	0.0016	0.0012	0.0012	0.0015	0.0016
1hr - Maximum	0.0029	0.0034	0.0042	0.0018	0.0028	0.0043	0.0043
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 : U.S. Environmental Protection Agency Method Part 50 App. F (Chemiluminescence)

Approved by

*Saranya C.*

Saranya Chalermthamrong  
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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599745

Date Received : Nov 11, 2025

Date Reported : Nov 17, 2025

Report Number: 3449464-1

Page 1 of 1

Sample Description Air Quality

Location บ้านคลองคุดัน (GPS 47P 747552, 1413909)

Parameter Nitrogen dioxide (ppm)

Measurement Date Oct 31, 2025 - Nov 07, 2025

Measurement by Norranon Tathongkham

Time	2599745-15 Oct 31, 2025	2599745-16 Nov 01, 2025	2599745-17 Nov 02, 2025	2599745-18 Nov 03, 2025	2599745-19 Nov 04, 2025	2599745-20 Nov 05, 2025	2599745-21 Nov 06, 2025
09:00 AM - 10:00 AM	0.0095	0.0072	0.0055	0.0034	0.0056	0.0034	0.0045
10:00 AM - 11:00 AM	0.0068	0.0092	0.0042	0.0037	0.0064	0.0064	0.0058
11:00 AM - 12:00 PM	0.0075	0.0125	0.0043	0.0042	0.0095	0.0136	0.0134
12:00 PM - 01:00 PM	0.0089	0.0105	0.0061	0.0053	0.0097	0.0119	0.0122
01:00 PM - 02:00 PM	0.0097	0.0103	0.0110	0.0072	0.0090	0.0122	0.0097
02:00 PM - 03:00 PM	0.0097	0.0106	0.0095	0.0153	0.0090	0.0091	0.0101
03:00 PM - 04:00 PM	0.0090	0.0113	0.0115	0.0126	0.0064	0.0121	0.0103
04:00 PM - 05:00 PM	0.0070	0.0130	0.0070	0.0075	0.0105	0.0093	0.0060
05:00 PM - 06:00 PM	0.0084	0.0105	0.0073	0.0108	0.0088	0.0105	0.0035
06:00 PM - 07:00 PM	0.0061	0.0091	0.0046	0.0087	0.0081	0.0071	0.0028
07:00 PM - 08:00 PM	0.0048	0.0081	0.0043	0.0073	0.0075	0.0033	0.0030
08:00 PM - 09:00 PM	0.0050	0.0048	0.0041	0.0058	0.0082	0.0037	0.0030
09:00 PM - 10:00 PM	0.0064	0.0031	0.0032	0.0064	0.0113	0.0038	0.0028
10:00 PM - 11:00 PM	0.0077	0.0038	0.0043	0.0063	0.0094	0.0044	0.0026
11:00 PM - 12:00 AM	0.0083	0.0031	0.0042	0.0051	0.0074	0.0049	0.0023
12:00 AM - 01:00 AM	0.0089	0.0040	0.0073	0.0076	0.0100	0.0052	0.0033
01:00 AM - 02:00 AM	0.0087	0.0076	0.0118	0.0101	0.0082	0.0084	0.0091
02:00 AM - 03:00 AM	0.0068	0.0054	0.0091	0.0092	0.0098	0.0094	0.0096
03:00 AM - 04:00 AM	0.0071	0.0098	0.0092	0.0082	0.0087	0.0096	0.0073
04:00 AM - 05:00 AM	0.0065	0.0079	0.0102	0.0075	0.0078	0.0053	0.0044
05:00 AM - 06:00 AM	0.0069	0.0110	0.0065	0.0038	0.0050	0.0062	0.0041
06:00 AM - 07:00 AM	0.0063	0.0098	0.0089	0.0036	0.0061	0.0060	0.0053
07:00 AM - 08:00 AM	0.0069	0.0064	0.0081	0.0038	0.0044	0.0051	0.0049
08:00 AM - 09:00 AM	0.0057	0.0071	0.0052	0.0041	0.0063	0.0043	0.0047
Average	0.0074	0.0082	0.0070	0.0070	0.0080	0.0073	0.0060
1hr - Maximum	0.0097	0.0130	0.0118	0.0153	0.0113	0.0136	0.0134
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 : U.S. Environmental Protection Agency Method Part 50 App. F (Chemiluminescence)

Approved by

*Saranya C.*

Saranya Chalermthamrong

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599798

Date Received : Nov 11, 2025

Date Reported : Nov 17, 2025

Report Number: 3449472-1C15

Page 1 of 1

Sample Description Air Quality

Location ถนนบ้านสามแยก (GPS 47P 742212, 1418030)

Parameter Nitrogen dioxide (ppm)

Measurement Date Oct 31, 2025 - Nov 07, 2025

Measurement by Norranon Tathongkham

Time	2599798-8 Oct 31, 2025	2599798-9 Nov 01, 2025	2599798-10 Nov 02, 2025	2599798-11 Nov 03, 2025	2599798-12 Nov 04, 2025	2599798-13 Nov 05, 2025	2599798-14 Nov 06, 2025
11:00 AM - 12:00 PM	0.0022	0.0009	0.0018	0.0023	0.0032	0.0018	0.0009
12:00 PM - 01:00 PM	0.0031	0.0020	0.0029	0.0026	0.0011	0.0024	0.0034
01:00 PM - 02:00 PM	0.0013	0.0021	0.0021	0.0018	0.0006	0.0014	0.0024
02:00 PM - 03:00 PM	0.0023	0.0018	0.0018	0.0014	0.0009	0.0012	0.0013
03:00 PM - 04:00 PM	0.0032	0.0016	0.0023	0.0016	0.0017	0.0014	0.0010
04:00 PM - 05:00 PM	0.0011	0.0026	0.0010	0.0015	0.0006	0.0016	0.0004
05:00 PM - 06:00 PM	0.0011	0.0017	0.0007	0.0008	0.0007	0.0016	0.0005
06:00 PM - 07:00 PM	0.0026	0.0006	0.0022	0.0024	0.0024	0.0008	0.0035
07:00 PM - 08:00 PM	0.0024	0.0002	0.0009	0.0024	0.0012	0.0014	0.0024
08:00 PM - 09:00 PM	0.0004	0.0014	0.0025	0.0015	0.0005	0.0017	0.0026
09:00 PM - 10:00 PM	0.0037	0.0023	0.0059	0.0038	0.0023	0.0034	0.0035
10:00 PM - 11:00 PM	0.0013	0.0005	0.0023	0.0012	0.0023	0.0028	0.0012
11:00 PM - 12:00 AM	0.0006	0.0003	0.0010	0.0009	0.0008	0.0016	0.0005
12:00 AM - 01:00 AM	0.0010	0.0007	0.0017	0.0019	0.0009	0.0037	0.0012
01:00 AM - 02:00 AM	0.0015	0.0009	0.0032	0.0013	0.0010	0.0019	0.0012
02:00 AM - 03:00 AM	0.0013	0.0010	0.0023	0.0008	0.0007	0.0010	0.0015
03:00 AM - 04:00 AM	0.0008	0.0013	0.0022	0.0008	0.0004	0.0006	0.0018
04:00 AM - 05:00 AM	0.0011	0.0012	0.0027	0.0017	0.0008	0.0002	0.0015
05:00 AM - 06:00 AM	0.0019	0.0013	0.0014	0.0018	0.0008	0.0006	0.0012
06:00 AM - 07:00 AM	0.0027	0.0021	0.0009	0.0030	0.0012	0.0011	0.0022
07:00 AM - 08:00 AM	0.0023	0.0054	0.0041	0.0024	0.0037	0.0036	0.0048
08:00 AM - 09:00 AM	0.0074	0.0033	0.0068	0.0034	0.0035	0.0060	0.0034
09:00 AM - 10:00 AM	0.0032	0.0056	0.0061	0.0038	0.0030	0.0028	0.0035
10:00 AM - 11:00 AM	0.0008	0.0012	0.0014	0.0036	0.0016	0.0010	0.0057
Average	0.0021	0.0018	0.0025	0.0021	0.0015	0.0019	0.0022
1hr - Maximum	0.0074	0.0056	0.0068	0.0038	0.0037	0.0060	0.0057
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 : U.S. Environmental Protection Agency Method Part 50 App. F (Chemiluminescence)

Approved by

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## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599757**  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3437020-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสวนหลวง (GPS 47P 744062, 1420454)  
**Date Analysis Commenced** Nov 11, 2025  
**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	Sampling Condition		Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
		Pressure (mm Hg)	Temperature (°C)		
2599757-1	Oct 31 - Nov 01, 2025	756	29.3	0.018	0.011
2599757-2	Nov 01 - Nov 02, 2025	756	28.5	0.020	0.017
2599757-3	Nov 02 - Nov 03, 2025	756	30.0	0.021	0.018
2599757-4	Nov 03 - Nov 04, 2025	756	28.6	0.023	0.018
2599757-5	Nov 04 - Nov 05, 2025	756	29.0	0.040	0.027
2599757-6	Nov 05 - Nov 06, 2025	756	29.5	0.036	0.029
2599757-7	Nov 06 - Nov 07, 2025	756	30.0	0.059	0.043
<b>Guideline</b>	-	-	-	0.33	0.12

### Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008  
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

**Sampled By :** Norranon Tathongkham

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599757**  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3437020-2

Page 1 of 1

**Sample Description** Air Quality  
**Location** รพ.สต.บ้านคลองน้ำเย็น (GSP 47P 747473, 1419148)  
**Date Analysis Commenced** Nov 11, 2025  
**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	Sampling Condition		Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
		Pressure (mm Hg)	Temperature (°C)		
2599757-8	Oct 31 - Nov 01, 2025	756	29.3	0.015	0.009
2599757-9	Nov 01 - Nov 02, 2025	756	28.5	0.014	0.008
2599757-10	Nov 02 - Nov 03, 2025	756	30.0	0.019	0.011
2599757-11	Nov 03 - Nov 04, 2025	756	28.6	0.021	0.013
2599757-12	Nov 04 - Nov 05, 2025	756	29.0	0.036	0.015
2599757-13	Nov 05 - Nov 06, 2025	756	29.5	0.040	0.018
2599757-14	Nov 06 - Nov 07, 2025	756	30.0	0.057	0.033
<b>Guideline</b>	-	-	-	0.33	0.12

### Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008  
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

**Sampled By :** Norranon Tathongkham

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599757**  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3437020-3

Page 1 of 1

**Sample Description** Air Quality  
**Location** บ้านคลองคุดมัน (GPS 47P 747552, 1413909)  
**Date Analysis Commenced** Nov 11, 2025  
**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	Sampling Condition		Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
		Pressure (mm Hg)	Temperature (°C)		
2599757-15	Oct 31 - Nov 01, 2025	756	29.3	0.014	0.012
2599757-16	Nov 01 - Nov 02, 2025	756	28.5	0.017	0.015
2599757-17	Nov 02 - Nov 03, 2025	756	30.0	0.023	0.017
2599757-18	Nov 03 - Nov 04, 2025	756	28.6	0.024	0.019
2599757-19	Nov 04 - Nov 05, 2025	756	29.0	0.046	0.028
2599757-20	Nov 05 - Nov 06, 2025	756	29.5	0.044	0.031
2599757-21	Nov 06 - Nov 07, 2025	756	30.0	0.066	0.045

**Guideline** - - 0.33 0.12

### Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008  
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

**Sampled By :** Norranon Tathongkham

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report



TESTING  
No.0042

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :**  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599801**  
Date Received : Nov 10, 2025  
Date Reported : Nov 15, 2025  
Report Number: 3437071-2C15

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านสามแยก  
**Date Analysis Commenced** Nov 11, 2025  
**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	Sampling Condition		Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)
		Pressure (mm Hg)	Temperature (°C)		
2599801-8	Oct 31 - Nov 01, 2025	756	29.3	0.032	0.014
2599801-9	Nov 01 - Nov 02, 2025	756	28.5	0.033	0.015
2599801-10	Nov 02 - Nov 03, 2025	756	30.0	0.035	0.016
2599801-11	Nov 03 - Nov 04, 2025	756	28.6	0.050	0.021
2599801-12	Nov 04 - Nov 05, 2025	756	29.0	0.046	0.019
2599801-13	Nov 05 - Nov 06, 2025	756	29.5	0.075	0.029
2599801-14	Nov 06 - Nov 07, 2025	756	30.0	0.110	0.050

**Guideline** - - 0.33 0.12

### Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008  
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

**Sampled By :** Norranon Tathongkham

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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11727-21 / BMAL



## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

**Lot ID:** 2599770

**Date Received :** Nov 10, 2025

**Date Reported :** Nov 17, 2025

**Report Number :** 3437023-1

Page 1 of 2

**Sample Number** : 2599770-1 to 7  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดสวนหลวง (GPS 47P 0744062, 1420454)  
**Sampling Date** : Oct 31 - Nov 07, 2025  
**Sampling by** : Norranon Tathongkham

Time	Oct 31 - Nov 01, 2025			Nov 01 - Nov 02, 2025			Nov 02 - Nov 03, 2025			Nov 03 - Nov 04, 2025			Nov 04 - Nov 05, 2025			Nov 05 - Nov 06, 2025			Nov 06 - Nov 07, 2025		
	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	-	-	1.4	17.0	NNE	0.2	-	-	1.2	179.0	S	0.0	-	-	1.3	57.0	ENE	1.4	12.0	NNE
11:00 AM - 12:00 PM	0.0	-	-	1.2	26.0	NNE	0.9	219.0	SW	0.8	166.0	SSE	1.2	292.0	WNW	1.2	0.0	N	1.4	50.0	NNE
12:00 PM - 01:00 PM	0.2	-	-	0.6	92.0	E	0.0	-	-	0.0	-	-	0.8	103.0	ESE	1.7	25.0	NNE	0.0	-	-
01:00 PM - 02:00 PM	0.0	-	-	1.8	60.0	ENE	1.2	36.0	NE	0.0	-	0.0	-	0.0	-	0.0	-	-	0.0	-	-
02:00 PM - 03:00 PM	1.3	203.0	SSW	1.9	181.0	S	0.6	359.0	N	0.0	-	-	0.6	23.0	NNE	0.3	35.0	NE	0.0	-	-
03:00 PM - 04:00 PM	0.4	227.0	SW	1.8	135.0	SE	0.0	-	-	2.0	203.0	SSW	0.0	-	0.0	-	-	0.0	-	0.0	-
04:00 PM - 05:00 PM	0.0	-	-	1.1	153.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	1.1	108.0	ESE	0.0	-	-	0.0	-	-	1.2	50.0	NE	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.8	108.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	1.6	196.0	SSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	272.0	W	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.4	169.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.6	126.0	SE	1.8	0.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.9	119.0	ESE
05:00 AM - 06:00 AM	0.0	-	-	1.2	127.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.3	118.0	ESE
06:00 AM - 07:00 AM	0.0	-	-	0.8	128.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.8	32.0	NNE	1.3	13.0	NNE	0.0	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.8	97.0	E	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	1.1	57.0	ENE	0.8	12.0	NNE
09:00 AM - 10:00 AM	1.7	8.0	N	1.0	36.0	NE	0.0	-	-	0.0	-	-	0.6	22.0	NNE	0.6	67.0	ENE	0.7	122.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

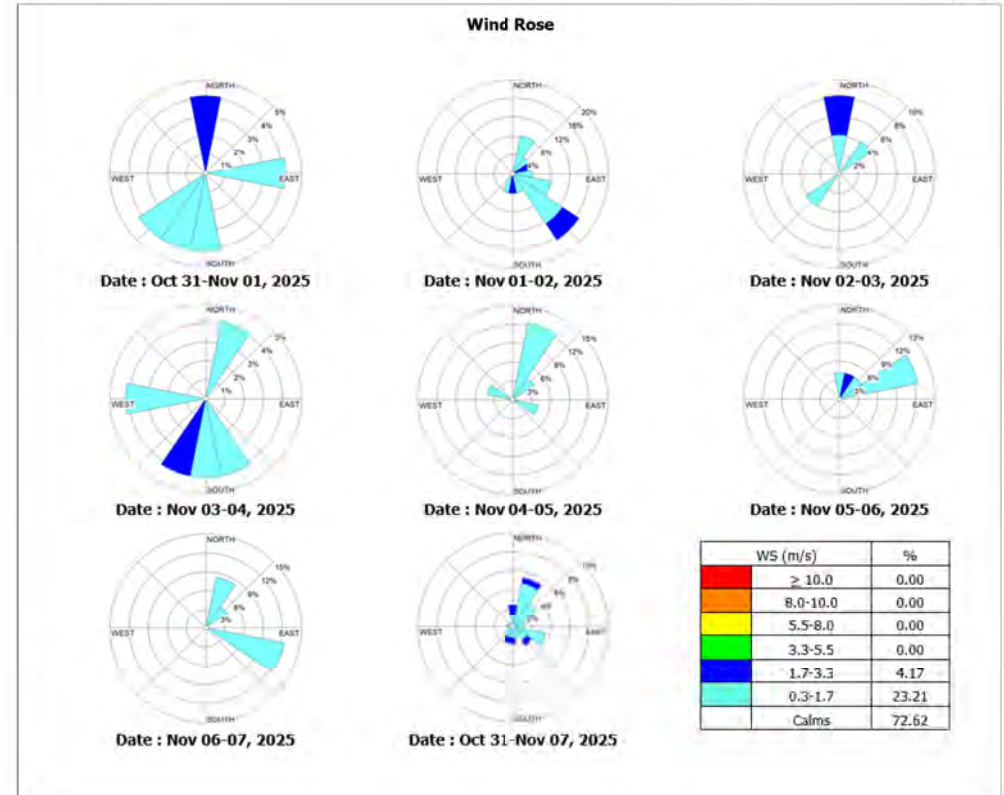
**Lot ID:** 2599770

**Date Received :** Nov 10, 2025

**Date Reported :** Nov 17, 2025

**Report Number :** 3437023-1

Page 2 of 2



**Location :** วัดสวนหลวง (GPS 47P 0744062, 1420454)

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

**Lot ID: 2599770**

Date Received : Nov 10, 2025

Date Reported : Nov 17, 2025

Report Number : 3437023-1

Page 1 of 2

**Sample Number** : 2599770-8 to 14  
**Parameter** : Wind Speed / Wind Direction  
**Location** : รพ.สต.บ้านคลองน้ำเย็น (GPS 47P 0747473, 1419148)  
**Sampling Date** : Oct 31 - Nov 07, 2025  
**Sampling by** : Norranon Tathongkham

Time	Oct 31 - Nov 01, 2025			Nov 01 - Nov 02, 2025			Nov 02 - Nov 03, 2025			Nov 03 - Nov 04, 2025			Nov 04 - Nov 05, 2025			Nov 05 - Nov 06, 2025			Nov 06 - Nov 07, 2025		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.5	205.0	SSW	2.1	16.0	NNE	1.4	190.0	S	1.2	240.0	WSW	2.0	9.0	N	0.0	-	-	0.1	-	-
11:00 AM - 12:00 PM	0.0	-	-	1.6	117.0	ESE	0.2	-	-	0.9	112.0	ESE	0.7	30.0	NNE	1.5	13.0	NNE	1.6	17.0	NNE
12:00 PM - 01:00 PM	0.6	347.0	NNW	1.3	128.0	SE	0.6	259.0	W	1.4	0.0	N	0.7	25.0	NNE	0.0	-	-	0.6	41.0	NE
01:00 PM - 02:00 PM	0.5	113.0	ESE	1.7	76.0	ENE	1.2	29.0	NNE	0.3	26.0	NNE	0.3	17.0	NNE	0.0	-	-	0.0	-	-
02:00 PM - 03:00 PM	1.2	190.0	S	1.4	164.0	SSE	0.9	4.0	N	1.2	133.0	SE	1.5	17.0	NNE	0.0	-	-	0.0	-	-
03:00 PM - 04:00 PM	0.8	126.0	SE	0.3	130.0	SE	1.1	30.0	NNE	0.8	126.0	SE	0.3	342.0	NNW	0.7	4.0	N	0.0	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.3	193.0	SSW	0.0	-	-	0.6	127.0	SE	1.6	23.0	NNE	1.2	5.0	N	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	2.0	108.0	ESE	0.0	-	-	0.0	-	-	0.3	27.0	NNE	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	1.8	117.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	225.0	SW	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.3	124.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.7	43.0	NE
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.3	12.0	NNE	0.0	-	-	1.1	43.0	NE
07:00 AM - 08:00 AM	0.0	-	-	1.2	87.0	E	0.0	-	-	1.6	359.0	N	0.0	-	-	1.1	19.0	NNE	0.0	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	0.6	42.0	NE	0.0	-	-	1.9	17.0	NNE	0.8	18.0	NNE	0.8	33.0	NE
09:00 AM - 10:00 AM	0.9	0.0	N	0.8	353.0	N	0.4	356.0	N	0.2	-	-	2.3	21.0	NNE	0.0	-	-	1.2	56.0	NE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

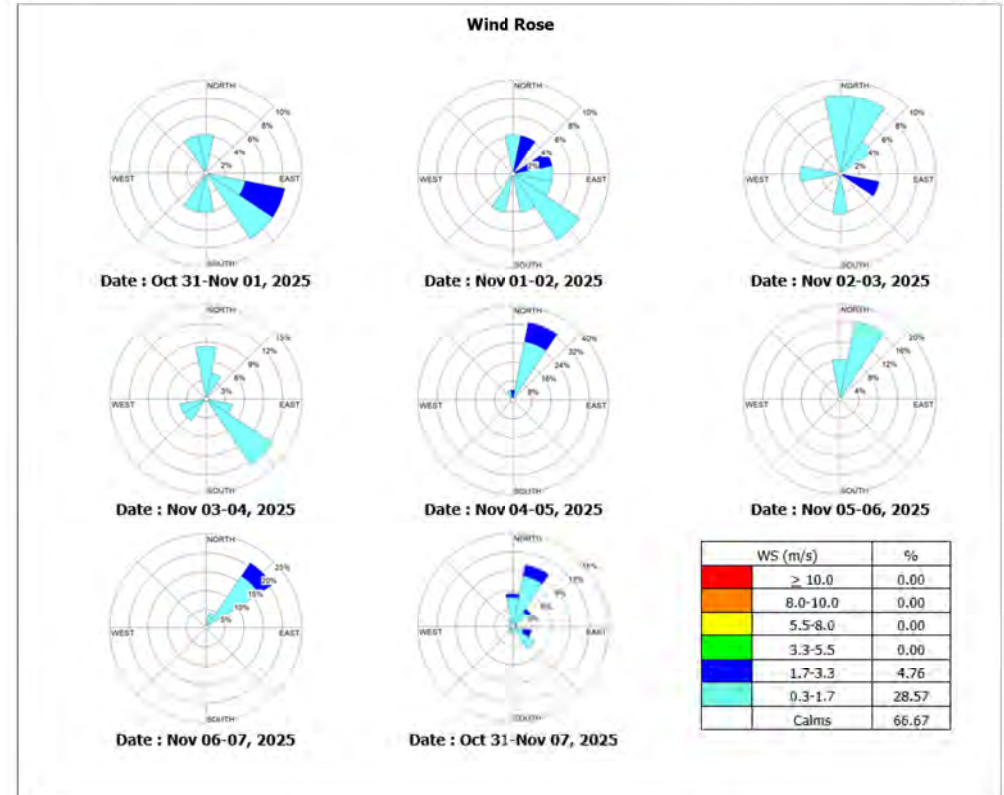
**Lot ID: 2599770**

Date Received : Nov 10, 2025

Date Reported : Nov 17, 2025

Report Number : 3437023-1

Page 2 of 2



Location : รพ.สต.บ้านคลองน้ำเย็น (GPS 47P 0747473, 1419148)

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

**Lot ID: 2599770**

Date Received : Nov 10, 2025

Date Reported : Nov 17, 2025

Report Number : 3437023-1

Page 1 of 2

**Sample Number** : 2599770-15 to 21  
**Parameter** : Wind Speed / Wind Direction  
**Location** : บ้านคลองลัดบัน (GPS 47P 0747552, 1413909)  
**Sampling Date** : Oct 31 - Nov 07, 2025  
**Sampling by** : Norranon Tathongkham

Time	Oct 31 - Nov 01, 2025		Nov 01 - Nov 02, 2025		Nov 02 - Nov 03, 2025		Nov 03 - Nov 04, 2025		Nov 04 - Nov 05, 2025		Nov 05 - Nov 06, 2025		Nov 06 - Nov 07, 2025	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
09:00 AM - 10:00 AM	1.9	234.0	SW	0.4	67.0	ENE	1.2	301.0	WNW	0.6	246.0	WSW	0.0	-
10:00 AM - 11:00 AM	0.6	209.0	SSW	1.5	53.0	NE	1.8	257.0	WSW	0.0	-	1.9	33.0	NNE
11:00 AM - 12:00 PM	1.1	244.0	WSW	0.9	77.0	ENE	1.1	255.0	WSW	1.9	303.0	WNW	1.6	57.0
12:00 PM - 01:00 PM	2.3	249.0	WSW	0.4	156.0	SSE	0.6	58.0	ENE	2.0	222.0	SW	0.2	-
01:00 PM - 02:00 PM	1.2	254.0	WSW	0.0	-	-	1.9	58.0	ENE	1.5	207.0	SSW	0.2	-
02:00 PM - 03:00 PM	0.9	166.0	SSE	0.0	-	-	0.7	62.0	ENE	0.0	-	0.7	252.0	WSW
03:00 PM - 04:00 PM	1.0	263.0	W	0.3	242.0	WSW	0.5	59.0	ENE	0.4	235.0	SW	1.2	67.0
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.0	-	0.0	-	0.6	67.0	ENE	0.0
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.0	-	0.0	-	0.0	-	0.0	-
06:00 PM - 07:00 PM	0.0	-	-	0.2	-	-	0.3	72.0	ENE	0.0	-	0.0	-	0.0
07:00 PM - 08:00 PM	0.8	91.0	E	0.0	-	-	0.0	-	0.0	-	0.4	96.0	E	0.0
08:00 PM - 09:00 PM	0.2	-	-	0.8	257.0	WSW	0.0	-	1.1	50.0	NE	0.5	3.0	N
09:00 PM - 10:00 PM	0.2	-	-	0.7	91.0	E	0.0	-	0.0	-	0.0	-	0.0	-
10:00 PM - 11:00 PM	0.7	76.0	ENE	0.0	-	-	0.1	-	0.5	44.0	NE	0.3	189.0	S
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.0	-	0.0	-	0.0	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.8	39.0	NE	0.0	-	1.2
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.4	306.0	NW	0.0	-	0.5	53.0	NE
02:00 AM - 03:00 AM	0.4	45.0	NE	0.0	-	-	0.8	33.0	NNE	0.0	-	0.0	-	0.3
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.4	84.0	E	0.0	-	0.0
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	0.3	110.0	ESE	1.2	312.0	NW
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	1.3	63.0	ENE	2.0	8.0	N
06:00 AM - 07:00 AM	0.8	55.0	NE	1.7	53.0	NE	0.0	-	0.5	66.0	ENE	1.4	11.0	N
07:00 AM - 08:00 AM	0.0	-	-	1.1	252.0	WSW	0.6	41.0	NE	0.4	41.0	NE	0.5	60.0
08:00 AM - 09:00 AM	1.7	36.0	NE	0.7	119.0	ESE	1.5	51.0	NE	0.2	-	0.2	-	0.8

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

**P/O :** 4210902378

**Project Name :** Monitoring EIA

**Project Location :** GNLL2

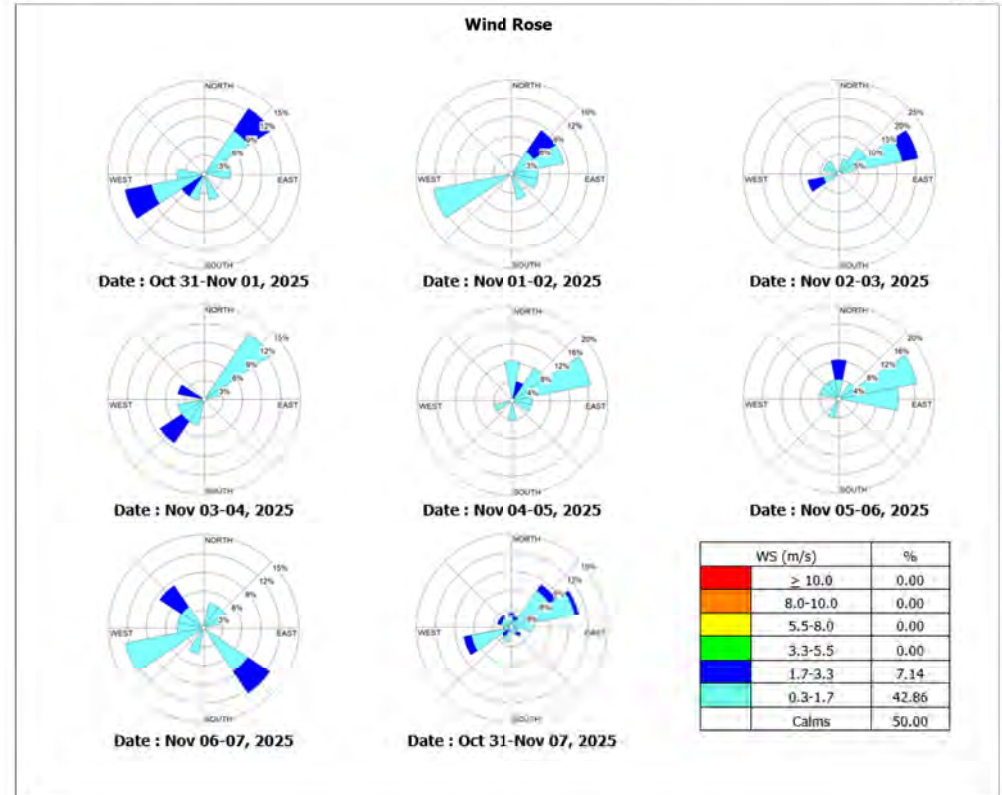
**Lot ID: 2599770**

Date Received : Nov 10, 2025

Date Reported : Nov 17, 2025

Report Number : 3437023-1

Page 2 of 2



Location : บ้านคลองลัดบัน (GPS 47P 0747552, 1413909)

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## Analysis / Test Report

Client : Gulf NLL Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599799

Date Received : Nov 10, 2025

Date Reported : Nov 13, 2025

Report Number : 3437068-1 C15

Sample Number : 2599799-8 to 14  
Parameter : Wind Speed / Wind Direction  
Location : ถนนบ้านสวนนก  
Sampling Date : Oct 31 - Nov 07, 2025  
Sampling by : Norranon Tathongkham

Time	Oct 31 - Nov 01, 2025		Nov 01 - Nov 02, 2025		Nov 02 - Nov 03, 2025		Nov 03 - Nov 04, 2025		Nov 04 - Nov 05, 2025		Nov 05 - Nov 06, 2025		Nov 06 - Nov 07, 2025	
	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	0.8	250.0	WSW	0.0	-	-	1.4	228.0	SW	0.0	-	-	1.8	16.0
12:00 PM - 01:00 PM	1.0	253.0	WSW	0.4	90.0	E	0.5	225.0	SW	0.0	-	-	2.1	22.0
01:00 PM - 02:00 PM	1.1	190.0	S	0.5	84.0	E	0.5	289.0	WNW	1.2	303.0	WNW	0.0	-
02:00 PM - 03:00 PM	0.8	232.0	SW	0.0	-	-	0.0	-	-	0.9	191.0	S	0.0	-
03:00 PM - 04:00 PM	1.8	208.0	SW	0.0	-	-	0.4	75.0	ENE	1.9	220.0	SW	0.9	86.0
04:00 PM - 05:00 PM	1.5	212.0	SSW	1.4	232.0	SW	0.0	-	-	0.6	211.0	SSW	0.7	26.0
05:00 PM - 06:00 PM	0.5	337.0	NNW	0.0	-	-	0.0	-	-	0.7	311.0	NW	0.2	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	73.0	ENE	1.1	47.0
07:00 PM - 08:00 PM	0.2	-	-	0.4	233.0	SW	0.0	-	-	0.0	-	-	0.7	23.0
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	31.0	NNE	0.0	-
09:00 PM - 10:00 PM	0.0	-	-	0.9	198.0	SSW	0.0	-	-	1.0	35.0	NE	0.8	13.0
10:00 PM - 11:00 PM	0.3	98.0	E	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	13.0	NNE	1.6	47.0
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.4	159.0	SSE	1.0	9.0
01:00 AM - 02:00 AM	0.4	211.0	SSW	0.0	-	-	0.2	-	-	1.3	18.0	NNE	1.0	26.0
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	2.3	315.0	NW	0.6	18.0	NNE	0.5	47.0
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.5	41.0	NE	0.0	-	-	0.5	46.0
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.4	14.0	NNE	0.5	10.0
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.9	24.0	NNE	0.4	16.0	NNE	1.8	37.0
06:00 AM - 07:00 AM	0.4	7.0	N	0.0	-	-	0.5	20.0	NNE	0.4	12.0	NNE	2.6	51.0
07:00 AM - 08:00 AM	1.0	42.0	NE	0.3	35.0	NE	0.0	-	-	0.6	91.0	E	1.4	27.0
08:00 AM - 09:00 AM	0.3	82.0	E	1.1	88.0	E	1.3	39.0	NE	1.2	3.0	N	2.0	27.0
09:00 AM - 10:00 AM	0.6	37.0	NE	0.0	-	-	0.6	31.0	NNE	0.9	11.0	N	2.1	31.0
10:00 AM - 11:00 AM	0.1	-	-	0.5	139.0	SE	0.0	-	-	3.7	40.0	NE	0.0	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuht Jittranoit  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :

Project Name : Monitoring EIA

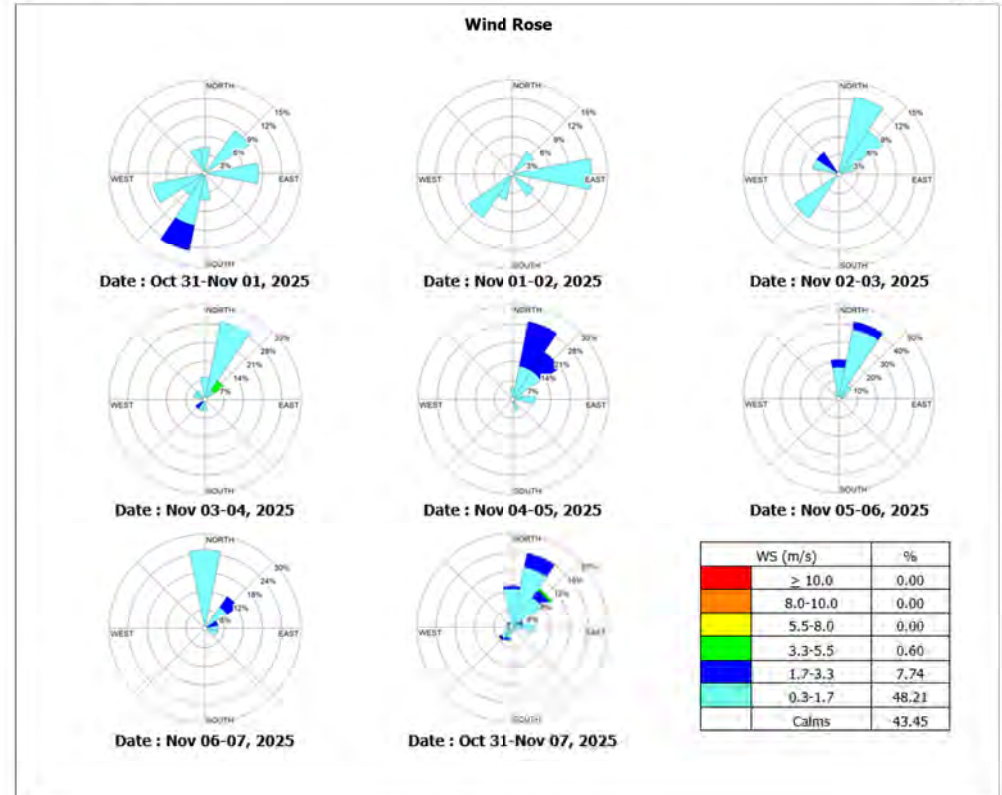
Project Location : GNLL2

Lot ID: 2599799

Date Received : Nov 10, 2025

Date Reported : Nov 13, 2025

Report Number : 3437068-1 C15



Location : ถนนบ้านสวนนก

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Sarayuht Jittranoit  
Assistant General Manager

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คุณภาพอากาศจากปล่องโรงไฟฟ้าแบบครึ่งคราว



## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599778**  
Date Received : Nov 06, 2025  
Date Reported : Nov 17, 2025  
Report Number : 3437038-1

Page 1 of 1

**Sample Number** 2599778-1  
**Sample Description** Emission from Stationary Source  
**Location** HRSG 11 (GPS 47P 0744574, 1419329)  
**Sampled Date** Nov 06, 2025

### Stack Description

Ambient Temperature	33.9 °C	Diameter	3.35 m	Oxygen	14.01 %
Ambient Pressure	751.6 mmHg	Shape	Circle	Carbon dioxide	3.75 %
Type of Process	Combustion	Stack Temperature	103 °C	Gas Velocity	12.01 m/s
Type of Fuel	Natural Gas	Moisture	9.09 %	Flow Rate	271462 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:30 AM - 11:50 AM	14.01	3.75	8.80	17.75	0.19	0.38
2	11:51 AM - 12:11 PM	14.01	3.75	8.50	17.16	0.19	0.38
3	12:12 PM - 12:32 PM	14.02	3.74	8.30	16.78	0.20	0.41
Average (ppm)		14.01	3.75	8.54	17.23	0.19	0.39
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				16.06	32.42	0.50	1.01
Guideline <sup>1/</sup> (mg/Nm <sup>3</sup> )				-	112.88	-	15.72
Guideline <sup>2/</sup> (mg/Nm <sup>3</sup> )				-	225.77	-	52.41
Emission Rate at Actual O <sub>2</sub> (g/s)				1.2109		0.0379	
Guideline <sup>1/</sup> (g/s)				7.4		1.0	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By :** Naratip Thueakchaikam

**Guideline :** <sup>1/</sup>Environmental Impact Assessment Report of Gulf NLL2 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 Chonharat*  
Wichan Chonharat  
Manager  
ทะเบียนเลขที่ 7-204-ก-0006

**Approved by**

*Sarayuth Jitranont*  
Sarayuth Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0003

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2599782**  
Date Received : Nov 06, 2025  
Date Reported : Nov 13, 2025  
Report Number : 3437044-1

Page 1 of 2

**Sample Number** 2599782-1  
**Sampled Date** Nov 06, 2025  
**Sample Description** Emission from Stationary Source  
**Location** HRSG11  
**Date Analysis Commenced** Nov 07, 2025  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	752 mmHg	Diameter	3.35 m	Oxygen	14.0 %
Ambient Temperature	33.9 °C	Shape	Circle	Carbon Dioxide	3.8 %
Type of Process	Combustion	Stack Temperature	103 °C	Gas Velocity	12.0 m/s
Type of Fuel	Natural Gas	Moisture	9.00 %	Flow Rate (Actual O <sub>2</sub> )	272002 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O <sub>2</sub> at 14.0 % O <sub>2</sub>		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	11:30 AM - 12:06 PM	mg/m3	-	0.5	<0.5	<0.5	28	60	U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)	Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NLL2 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**

*Thanita Kulsuriwong*  
Thanita Kulsuriwong  
Scientist (4)  
ทะเบียนเลขที่ 7-323-ก-0029

**Approved by**

*Dej Changchon*  
Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ 7-323-ก-0001

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14289-41/ EMAIL

S:\Reports\Air Stack\_O2\_2GL.rpt (1:20PM)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
**Lot ID: 2599782**  
Date Received : Nov 06, 2025  
Date Reported : Nov 13, 2025  
Report Number: 3437044-1

Sample Number 2599782-1  
Sampled Date Nov 06, 2025  
Sample Description Emission from Stationary Source  
Location HRSG11  
Date Analysis Commenced Nov 07, 2025  
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	752	mmHg	Diameter	3.35	m	Oxygen	14.0	%
Ambient Temperature	33.9	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	103	°C	Gas Velocity	12.0	m/s
Type of Fuel	Natural Gas		Moisture	9.00	%	Flow Rate (Actual O2)	272002	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
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### Air Testing

Total Suspended Particulate	11:30 AM - 12:06 PM	g/s	-	-	<0.038	1.7	-	Calculated	Rayong
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### Guideline :

- Guideline (1) Environmental Impact Assessment Report of Gulf NLL2 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 : Tinnakorn Kulchart ทะเบียนเลขที่ ๖-323-๖-0062

### Remark :

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

Technical Management

Thanitak.

Thanita Kulsuriwong  
Scientist (4)

ทะเบียนเลขที่ ๖-323-๖-0029

Approved by

D. Chuan.

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599780  
Date Received : Nov 06, 2025  
Date Reported : Nov 17, 2025  
Report Number : 3437039-1

Page 1 of 1

Sample Number 2599780-1  
Sample Description Emission from Stationary Source  
Location HRSG 12 (GPS 47P 0744591, 1419339)  
Measurement Date Nov 06, 2025

### Stack Description

Ambient Temperature	33.9	°C	Diameter	3.35	m	Oxygen	13.84	%
Ambient Pressure	751.6	mmHg	Shape	Circle		Carbon dioxide	3.90	%
Type of Process	Combustion		Stack Temperature	113	°C	Gas Velocity	13.04	m/s
Type of Fuel	Natural Gas		Moisture	8.96	%	Flow Rate	287502	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:25 AM - 11:45 AM	13.83	3.91	14.01	27.56	0.18	0.36
2	11:46 AM - 12:06 PM	13.84	3.90	14.04	27.65	0.19	0.38
3	12:07 PM - 12:27 PM	13.86	3.89	13.07	25.80	0.21	0.41
Average (ppm)		13.84	3.90	13.71	27.00	0.19	0.38
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				25.79	50.80	0.51	1.00
Guideline <sup>1/</sup> (mg/Nm <sup>3</sup> )				-	112.88	-	15.72
Guideline <sup>2/</sup> (mg/Nm <sup>3</sup> )				-	225.77	-	52.41
Emission Rate at Actual O <sub>2</sub> (g/s)				2.0599		0.0405	
Guideline <sup>1/</sup> (g/s)				7.4		1.0	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Khunakon Manchuan

Guideline : <sup>1/</sup>Environmental Impact Assessment Report of Gulf NLL2 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 Chuan.

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ๖-204-๖-0006

Approved by

Sarayu.

Sarayuth Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ ๖-204-๖-0003

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599783  
Date Received : Nov 06, 2025  
Date Reported : Nov 13, 2025  
Report Number: 3437043-1

Page 1 of 2

Sample Number 2599783-1  
Sampled Date Nov 06, 2025  
Sample Description Emission form Stationary Source  
Location HRSG12 (GPS 47P 0744594, 1419342)  
Date Analysis Commenced Nov 07, 2025  
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	752	mmHg	Diameter	3.35	m	Oxygen	13.8	%
Ambient Temperature	33.9	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	113	°C	Gas Velocity	13.0	m/s
Type of Fuel	Natural Gas		Moisture	9.03	%	Flow Rate (Actual O2)	287657	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O <sub>2</sub>	Result at 13.8 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
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### Air Testing

Total Suspended Particulate	11:25 AM - 12:01 PM	mg/m <sup>3</sup>	-	0.5	<0.5	<0.5	28	60	U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)	Rayong
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### Guideline :

- Guideline (1) Environmental Impact Assessment Report of Gulf NLL2 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.*

Thanita Kulsuriwong  
Scientist (4)  
ทะเบียนเลขที่ ร-323-ก-0029

Approved by

*D. Chamon.*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-ก-0001

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599783  
Date Received : Nov 06, 2025  
Date Reported : Nov 13, 2025  
Report Number: 3437043-1

Page 2 of 2

Sample Number 2599783-1  
Sampled Date Nov 06, 2025  
Sample Description Emission form Stationary Source  
Location HRSG12 (GPS 47P 0744594, 1419342)  
Date Analysis Commenced Nov 07, 2025  
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	752	mmHg	Diameter	3.35	m	Oxygen	13.8	%
Ambient Temperature	33.9	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	113	°C	Gas Velocity	13.0	m/s
Type of Fuel	Natural Gas		Moisture	9.03	%	Flow Rate (Actual O2)	287657	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
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### Air Testing

Total Suspended Particulate	11:25 AM - 12:01 PM	g/s	-	-	<0.040	1.7	-	Calculated	Rayong
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### Guideline :

- Guideline (1) Environmental Impact Assessment Report of Gulf NLL2 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 Pubpa ทะเบียนเลขที่ ร-323-ก-0033

### Remark :

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

Technical Management

*Thanitak.*

Thanita Kulsuriwong  
Scientist (4)  
ทะเบียนเลขที่ ร-323-ก-0029

Approved by

*D. Chamon.*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-ก-0001

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S:\Reports\Air Stack\_O2\_2GL.rpt ( 1:25PM)

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ระดับเสียงโดยทั่วไป (Leq24)



## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450723-1

Page 1 of 1

Sample Number 2599771-1  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Oct 31 - Nov 01, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.5	85.5	44.6
11:00 AM - 12:00 PM	58.8	82.2	46.5
12:00 PM - 01:00 PM	60.3	82.2	51.4
01:00 PM - 02:00 PM	59.7	81.7	47.9
02:00 PM - 03:00 PM	58.9	85.7	45.7
03:00 PM - 04:00 PM	60.2	87.9	46.1
04:00 PM - 05:00 PM	61.0	90.1	48.4
05:00 PM - 06:00 PM	63.6	89.4	50.4
06:00 PM - 07:00 PM	58.9	80.9	49.2
07:00 PM - 08:00 PM	61.0	86.1	50.0
08:00 PM - 09:00 PM	64.0	91.4	57.7
09:00 PM - 10:00 PM	59.6	87.7	47.6
10:00 PM - 11:00 PM	57.7	81.4	47.2
11:00 PM - 12:00 AM	58.8	80.0	54.6
12:00 AM - 01:00 AM	64.5	78.8	62.4
01:00 AM - 02:00 AM	64.0	78.4	62.3
02:00 AM - 03:00 AM	59.7	75.7	56.1
03:00 AM - 04:00 AM	54.9	75.2	51.2
04:00 AM - 05:00 AM	56.5	72.5	48.3
05:00 AM - 06:00 AM	58.3	86.2	48.2
06:00 AM - 07:00 AM	59.0	80.6	50.6
07:00 AM - 08:00 AM	62.5	88.0	51.2
08:00 AM - 09:00 AM	59.8	79.9	46.5
09:00 AM - 10:00 AM	58.2	83.7	45.0

Leq Average 24 hrs. (dB(A)) 60.6  
Lmax (dB(A)) 91.4  
L90 (dB(A)) 48.4  
Ldn (dB(A)) 66.9  
Standard (dB(A)) 70

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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S:\Reports\_Air Noise.rpt ( 2:57PM)



## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450724-1

Page 1 of 1

Sample Number 2599771-2  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 01 - Nov 02, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.8	86.4	47.3
11:00 AM - 12:00 PM	59.6	86.0	44.3
12:00 PM - 01:00 PM	58.1	79.7	44.6
01:00 PM - 02:00 PM	57.8	83.9	42.3
02:00 PM - 03:00 PM	58.0	80.8	40.9
03:00 PM - 04:00 PM	59.3	90.5	45.8
04:00 PM - 05:00 PM	58.5	79.6	44.7
05:00 PM - 06:00 PM	61.2	88.0	50.1
06:00 PM - 07:00 PM	58.3	77.4	51.5
07:00 PM - 08:00 PM	61.1	87.7	52.1
08:00 PM - 09:00 PM	58.7	81.2	49.9
09:00 PM - 10:00 PM	55.8	76.6	48.6
10:00 PM - 11:00 PM	61.2	89.3	46.8
11:00 PM - 12:00 AM	59.3	94.3	46.8
12:00 AM - 01:00 AM	56.3	86.2	45.8
01:00 AM - 02:00 AM	52.0	82.1	44.6
02:00 AM - 03:00 AM	60.8	93.1	43.1
03:00 AM - 04:00 AM	45.6	71.5	41.9
04:00 AM - 05:00 AM	51.3	80.8	43.0
05:00 AM - 06:00 AM	54.0	77.9	45.3
06:00 AM - 07:00 AM	59.2	85.9	47.5
07:00 AM - 08:00 AM	59.5	79.6	48.9
08:00 AM - 09:00 AM	61.2	84.5	50.5
09:00 AM - 10:00 AM	60.5	81.1	48.1

Leq Average 24 hrs. (dB(A)) 58.9  
Lmax (dB(A)) 94.3  
L90 (dB(A)) 45.8  
Ldn (dB(A)) 64.4  
Standard (dB(A)) 70

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450725-1

Page 1 of 1

Sample Number 2599771-3  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 02 - Nov 03, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.4	84.6	47.4
11:00 AM - 12:00 PM	59.8	86.5	47.2
12:00 PM - 01:00 PM	61.8	85.3	54.3
01:00 PM - 02:00 PM	58.0	79.6	43.8
02:00 PM - 03:00 PM	60.7	87.9	42.8
03:00 PM - 04:00 PM	58.3	77.6	44.8
04:00 PM - 05:00 PM	61.0	80.2	55.4
05:00 PM - 06:00 PM	59.7	78.9	48.7
06:00 PM - 07:00 PM	59.1	90.2	49.0
07:00 PM - 08:00 PM	58.6	79.3	48.5
08:00 PM - 09:00 PM	58.6	83.0	46.9
09:00 PM - 10:00 PM	54.2	77.8	45.9
10:00 PM - 11:00 PM	60.3	84.7	45.4
11:00 PM - 12:00 AM	55.0	82.7	45.1
12:00 AM - 01:00 AM	54.4	80.9	42.2
01:00 AM - 02:00 AM	49.4	70.8	46.8
02:00 AM - 03:00 AM	53.3	84.3	41.5
03:00 AM - 04:00 AM	61.7	72.8	59.7
04:00 AM - 05:00 AM	57.1	82.7	48.0
05:00 AM - 06:00 AM	53.7	73.5	47.1
06:00 AM - 07:00 AM	59.5	76.9	49.4
07:00 AM - 08:00 AM	63.8	85.0	52.0
08:00 AM - 09:00 AM	58.8	80.2	43.9
09:00 AM - 10:00 AM	58.7	84.3	43.2

Leq Average 24 hrs. (dB(A)) 59.1  
Lmax (dB(A)) 90.2  
L90 (dB(A)) 46.9  
Ldn (dB(A)) 64.3  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

Approved by

*Supot S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450726-1

Page 1 of 1

Sample Number 2599771-4  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 03 - Nov 04, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.2	82.1	43.0
11:00 AM - 12:00 PM	58.4	80.4	44.0
12:00 PM - 01:00 PM	57.5	82.6	43.5
01:00 PM - 02:00 PM	58.3	88.8	43.0
02:00 PM - 03:00 PM	57.1	78.3	45.9
03:00 PM - 04:00 PM	58.7	80.4	47.8
04:00 PM - 05:00 PM	61.0	82.4	51.3
05:00 PM - 06:00 PM	63.4	81.9	54.6
06:00 PM - 07:00 PM	62.3	79.8	57.6
07:00 PM - 08:00 PM	61.9	85.7	57.2
08:00 PM - 09:00 PM	63.2	90.2	56.9
09:00 PM - 10:00 PM	62.8	78.3	59.5
10:00 PM - 11:00 PM	60.7	84.0	56.6
11:00 PM - 12:00 AM	55.9	79.8	50.4
12:00 AM - 01:00 AM	55.2	81.3	47.4
01:00 AM - 02:00 AM	55.8	77.0	46.1
02:00 AM - 03:00 AM	52.8	76.1	45.5
03:00 AM - 04:00 AM	53.5	75.2	45.2
04:00 AM - 05:00 AM	49.5	72.6	45.3
05:00 AM - 06:00 AM	52.8	74.5	47.4
06:00 AM - 07:00 AM	59.3	81.9	48.0
07:00 AM - 08:00 AM	64.1	86.6	53.7
08:00 AM - 09:00 AM	61.7	90.0	46.0
09:00 AM - 10:00 AM	60.1	82.6	43.5

Leq Average 24 hrs. (dB(A)) 59.9  
Lmax (dB(A)) 90.2  
L90 (dB(A)) 47.4  
Ldn (dB(A)) 63.8  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

Approved by

*Supot S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450727-1

Page 1 of 1

Sample Number 2599771-5  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 04 - Nov 05, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.5	87.9	42.6
11:00 AM - 12:00 PM	56.3	78.6	45.1
12:00 PM - 01:00 PM	59.0	91.2	43.6
01:00 PM - 02:00 PM	60.2	87.9	46.4
02:00 PM - 03:00 PM	57.2	81.3	40.5
03:00 PM - 04:00 PM	61.3	98.1	49.4
04:00 PM - 05:00 PM	59.3	84.8	45.6
05:00 PM - 06:00 PM	62.4	89.1	49.8
06:00 PM - 07:00 PM	60.1	81.0	51.4
07:00 PM - 08:00 PM	62.2	88.0	51.3
08:00 PM - 09:00 PM	62.8	90.9	48.0
09:00 PM - 10:00 PM	57.0	77.9	47.5
10:00 PM - 11:00 PM	60.9	86.2	44.8
11:00 PM - 12:00 AM	56.4	79.4	44.2
12:00 AM - 01:00 AM	59.1	90.1	43.6
01:00 AM - 02:00 AM	54.9	88.9	41.0
02:00 AM - 03:00 AM	53.7	82.6	40.9
03:00 AM - 04:00 AM	50.9	79.9	40.5
04:00 AM - 05:00 AM	52.5	80.2	42.1
05:00 AM - 06:00 AM	53.3	78.9	45.1
06:00 AM - 07:00 AM	62.4	94.1	47.4
07:00 AM - 08:00 AM	64.0	92.4	52.5
08:00 AM - 09:00 AM	60.1	89.3	44.5
09:00 AM - 10:00 AM	59.0	79.4	44.4

Leq Average 24 hrs. (dB(A)) 59.7  
Lmax (dB(A)) 98.1  
L90 (dB(A)) 44.8  
Ldn (dB(A)) 64.6  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

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Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450728-1

Page 1 of 1

Sample Number 2599771-6  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 05 - Nov 06, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.6	75.2	43.2
11:00 AM - 12:00 PM	61.1	91.6	47.2
12:00 PM - 01:00 PM	58.6	82.6	42.9
01:00 PM - 02:00 PM	58.1	87.0	44.1
02:00 PM - 03:00 PM	56.9	78.4	43.5
03:00 PM - 04:00 PM	59.0	88.6	43.5
04:00 PM - 05:00 PM	60.5	88.3	50.2
05:00 PM - 06:00 PM	61.4	84.5	48.9
06:00 PM - 07:00 PM	63.5	88.2	49.8
07:00 PM - 08:00 PM	60.8	82.6	50.4
08:00 PM - 09:00 PM	60.7	89.4	47.1
09:00 PM - 10:00 PM	58.6	83.6	49.1
10:00 PM - 11:00 PM	55.3	80.8	43.5
11:00 PM - 12:00 AM	54.6	80.9	42.1
12:00 AM - 01:00 AM	56.8	85.1	41.2
01:00 AM - 02:00 AM	60.2	83.4	40.8
02:00 AM - 03:00 AM	50.7	80.5	39.6
03:00 AM - 04:00 AM	57.8	81.3	41.3
04:00 AM - 05:00 AM	46.8	74.1	42.0
05:00 AM - 06:00 AM	52.9	76.3	43.0
06:00 AM - 07:00 AM	59.9	77.3	47.4
07:00 AM - 08:00 AM	64.7	89.7	53.4
08:00 AM - 09:00 AM	60.4	86.0	46.2
09:00 AM - 10:00 AM	59.0	84.3	47.1

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 91.6  
L90 (dB(A)) 43.5  
Ldn (dB(A)) 63.8  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450729-1

Page 1 of 1

Sample Number 2599771-7  
Parameter Noise (Leq 24 hrs.)  
Location N1 : ที่พักอาศัยใกล้เคียงพื้นที่โครงการ (GPS 47P 744360, 1420358)  
Measurement Date Nov 06 - Nov 07, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.3	81.9	46.9
11:00 AM - 12:00 PM	58.3	81.1	46.4
12:00 PM - 01:00 PM	61.1	90.7	46.1
01:00 PM - 02:00 PM	59.0	82.4	49.6
02:00 PM - 03:00 PM	58.5	84.7	43.6
03:00 PM - 04:00 PM	60.9	82.4	47.1
04:00 PM - 05:00 PM	61.2	81.2	49.3
05:00 PM - 06:00 PM	63.0	83.3	50.5
06:00 PM - 07:00 PM	59.8	82.4	47.2
07:00 PM - 08:00 PM	61.1	83.3	48.8
08:00 PM - 09:00 PM	62.5	91.6	47.7
09:00 PM - 10:00 PM	58.8	84.9	47.1
10:00 PM - 11:00 PM	55.1	79.5	45.5
11:00 PM - 12:00 AM	53.1	78.0	43.7
12:00 AM - 01:00 AM	54.6	82.5	42.2
01:00 AM - 02:00 AM	47.4	72.3	41.6
02:00 AM - 03:00 AM	48.2	77.4	40.7
03:00 AM - 04:00 AM	49.9	78.7	41.6
04:00 AM - 05:00 AM	46.5	71.1	42.3
05:00 AM - 06:00 AM	51.7	75.1	44.1
06:00 AM - 07:00 AM	62.5	88.1	46.5
07:00 AM - 08:00 AM	64.3	89.0	53.5
08:00 AM - 09:00 AM	60.9	88.0	45.1
09:00 AM - 10:00 AM	59.6	87.0	44.0

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 91.6  
L90 (dB(A)) 46.1  
Ldn (dB(A)) 63.1  
Standard (dB(A)) 70

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

**Chontichak**

Chonticha Subongkoch  
Scientist (3)

Approved by

**Supot S**

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450730-1

Page 1 of 1

Sample Number 2599771-8  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณขั้วโรงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Oct 31 - Nov 01, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.2	77.9	56.9
11:00 AM - 12:00 PM	58.5	67.6	57.7
12:00 PM - 01:00 PM	60.3	74.2	59.4
01:00 PM - 02:00 PM	59.7	76.3	58.9
02:00 PM - 03:00 PM	59.3	72.9	58.5
03:00 PM - 04:00 PM	59.6	74.9	58.1
04:00 PM - 05:00 PM	59.4	77.4	58.0
05:00 PM - 06:00 PM	59.6	73.1	58.6
06:00 PM - 07:00 PM	58.8	69.7	58.3
07:00 PM - 08:00 PM	59.9	79.8	58.5
08:00 PM - 09:00 PM	59.1	73.2	58.4
09:00 PM - 10:00 PM	58.5	68.1	58.0
10:00 PM - 11:00 PM	58.6	66.0	58.2
11:00 PM - 12:00 AM	60.2	81.7	59.0
12:00 AM - 01:00 AM	60.4	80.5	58.6
01:00 AM - 02:00 AM	59.2	80.8	58.6
02:00 AM - 03:00 AM	59.2	72.4	58.6
03:00 AM - 04:00 AM	59.2	74.7	58.7
04:00 AM - 05:00 AM	58.9	61.3	58.5
05:00 AM - 06:00 AM	59.1	68.1	58.5
06:00 AM - 07:00 AM	59.9	78.5	59.0
07:00 AM - 08:00 AM	61.4	84.6	59.1
08:00 AM - 09:00 AM	59.6	78.9	58.7
09:00 AM - 10:00 AM	59.0	73.4	58.3

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 84.6  
L90 (dB(A)) 58.5  
Ldn (dB(A)) 65.8  
Standard (dB(A)) 70

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

**Chontichak**

Chonticha Subongkoch  
Scientist (3)

Approved by

**Supot S**

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450731-1

Page 1 of 1

Sample Number 2599771-9  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 01 - Nov 02, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.6	73.2	57.9
11:00 AM - 12:00 PM	58.6	65.0	57.9
12:00 PM - 01:00 PM	59.7	72.1	59.0
01:00 PM - 02:00 PM	59.8	76.9	59.0
02:00 PM - 03:00 PM	58.4	74.0	57.4
03:00 PM - 04:00 PM	57.6	63.3	57.1
04:00 PM - 05:00 PM	58.6	72.1	57.8
05:00 PM - 06:00 PM	58.7	67.8	58.1
06:00 PM - 07:00 PM	58.7	73.2	58.2
07:00 PM - 08:00 PM	59.1	67.1	58.5
08:00 PM - 09:00 PM	59.2	64.4	58.8
09:00 PM - 10:00 PM	59.3	66.4	58.8
10:00 PM - 11:00 PM	59.7	75.4	57.5
11:00 PM - 12:00 AM	56.9	62.2	56.4
12:00 AM - 01:00 AM	57.6	70.1	56.6
01:00 AM - 02:00 AM	57.6	62.0	57.2
02:00 AM - 03:00 AM	57.9	61.4	57.5
03:00 AM - 04:00 AM	57.8	63.2	57.3
04:00 AM - 05:00 AM	57.6	61.8	57.2
05:00 AM - 06:00 AM	57.3	68.5	56.9
06:00 AM - 07:00 AM	58.5	85.4	56.6
07:00 AM - 08:00 AM	57.7	75.2	56.4
08:00 AM - 09:00 AM	56.7	65.4	56.2
09:00 AM - 10:00 AM	55.8	72.2	55.2

Leq Average 24 hrs. (dB(A)) 58.3  
Lmax (dB(A)) 85.4  
L90 (dB(A)) 57.4  
Ldn (dB(A)) 64.4  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450732-1

Page 1 of 1

Sample Number 2599771-10  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 02 - Nov 03, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.5	82.9	55.2
11:00 AM - 12:00 PM	56.2	71.4	55.5
12:00 PM - 01:00 PM	58.7	74.5	57.8
01:00 PM - 02:00 PM	57.7	66.2	57.1
02:00 PM - 03:00 PM	56.8	67.8	56.2
03:00 PM - 04:00 PM	56.8	63.0	56.4
04:00 PM - 05:00 PM	57.2	77.5	56.6
05:00 PM - 06:00 PM	62.8	70.0	61.6
06:00 PM - 07:00 PM	59.7	72.4	58.7
07:00 PM - 08:00 PM	59.0	70.1	58.6
08:00 PM - 09:00 PM	59.4	68.9	59.0
09:00 PM - 10:00 PM	59.7	62.3	59.3
10:00 PM - 11:00 PM	59.8	67.4	59.4
11:00 PM - 12:00 AM	59.7	62.9	59.3
12:00 AM - 01:00 AM	59.5	61.3	59.1
01:00 AM - 02:00 AM	59.2	62.7	58.8
02:00 AM - 03:00 AM	59.7	66.5	59.2
03:00 AM - 04:00 AM	61.7	82.8	59.2
04:00 AM - 05:00 AM	59.2	79.8	58.7
05:00 AM - 06:00 AM	59.3	67.0	58.8
06:00 AM - 07:00 AM	60.5	77.2	59.5
07:00 AM - 08:00 AM	62.9	82.3	59.6
08:00 AM - 09:00 AM	60.1	74.7	58.9
09:00 AM - 10:00 AM	60.9	74.7	58.4

Leq Average 24 hrs. (dB(A)) 59.7  
Lmax (dB(A)) 82.9  
L90 (dB(A)) 58.8  
Ldn (dB(A)) 66.3  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450733-1

Page 1 of 1

Sample Number 2599771-11  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 03 - Nov 04, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.5	77.1	58.3
11:00 AM - 12:00 PM	58.2	70.5	57.4
12:00 PM - 01:00 PM	58.7	68.0	57.8
01:00 PM - 02:00 PM	60.2	78.3	58.2
02:00 PM - 03:00 PM	59.5	70.1	58.8
03:00 PM - 04:00 PM	60.3	72.5	58.9
04:00 PM - 05:00 PM	59.6	77.1	58.6
05:00 PM - 06:00 PM	60.8	80.0	59.6
06:00 PM - 07:00 PM	61.1	78.6	59.9
07:00 PM - 08:00 PM	60.9	81.2	59.3
08:00 PM - 09:00 PM	60.6	83.4	59.3
09:00 PM - 10:00 PM	60.2	74.2	59.4
10:00 PM - 11:00 PM	60.0	76.4	59.3
11:00 PM - 12:00 AM	59.9	65.7	59.3
12:00 AM - 01:00 AM	59.8	67.8	59.3
01:00 AM - 02:00 AM	59.7	62.9	59.3
02:00 AM - 03:00 AM	59.8	64.7	59.3
03:00 AM - 04:00 AM	59.8	61.8	59.4
04:00 AM - 05:00 AM	59.8	67.4	59.2
05:00 AM - 06:00 AM	59.5	69.1	59.0
06:00 AM - 07:00 AM	60.7	85.0	59.1
07:00 AM - 08:00 AM	63.6	84.6	59.8
08:00 AM - 09:00 AM	60.2	79.0	58.7
09:00 AM - 10:00 AM	59.5	74.0	58.2

Leq Average 24 hrs. (dB(A)) 60.3  
Lmax (dB(A)) 85.0  
L90 (dB(A)) 59.2  
Ldn (dB(A)) 66.4  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

Approved by

*Supot S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450734-1

Page 1 of 1

Sample Number 2599771-12  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 04 - Nov 05, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.5	77.4	57.9
11:00 AM - 12:00 PM	58.6	73.1	57.5
12:00 PM - 01:00 PM	58.7	76.7	57.2
01:00 PM - 02:00 PM	59.8	79.1	58.4
02:00 PM - 03:00 PM	59.8	74.7	58.5
03:00 PM - 04:00 PM	60.3	80.2	58.9
04:00 PM - 05:00 PM	60.5	75.2	58.8
05:00 PM - 06:00 PM	60.5	79.9	58.9
06:00 PM - 07:00 PM	60.8	81.5	59.2
07:00 PM - 08:00 PM	60.9	77.6	59.1
08:00 PM - 09:00 PM	59.6	77.5	58.9
09:00 PM - 10:00 PM	60.0	74.7	59.4
10:00 PM - 11:00 PM	59.9	64.6	59.3
11:00 PM - 12:00 AM	59.3	67.5	58.8
12:00 AM - 01:00 AM	59.7	79.3	58.9
01:00 AM - 02:00 AM	59.6	61.6	59.2
02:00 AM - 03:00 AM	59.6	62.1	59.1
03:00 AM - 04:00 AM	59.6	67.7	59.1
04:00 AM - 05:00 AM	59.7	63.7	59.2
05:00 AM - 06:00 AM	60.0	70.1	59.5
06:00 AM - 07:00 AM	60.2	70.9	59.3
07:00 AM - 08:00 AM	62.3	83.2	58.5
08:00 AM - 09:00 AM	60.6	77.1	57.8
09:00 AM - 10:00 AM	60.0	81.8	57.6

Leq Average 24 hrs. (dB(A)) 60.0  
Lmax (dB(A)) 83.2  
L90 (dB(A)) 58.9  
Ldn (dB(A)) 66.2  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

Approved by

*Supot S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450735-1

Page 1 of 1

Sample Number 2599771-13  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 05 - Nov 06, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.5	76.4	58.6
11:00 AM - 12:00 PM	58.1	75.2	57.2
12:00 PM - 01:00 PM	58.1	75.8	57.1
01:00 PM - 02:00 PM	59.6	78.5	57.9
02:00 PM - 03:00 PM	59.9	81.0	58.0
03:00 PM - 04:00 PM	59.5	77.5	58.1
04:00 PM - 05:00 PM	59.1	70.7	58.1
05:00 PM - 06:00 PM	59.1	68.9	58.2
06:00 PM - 07:00 PM	59.4	79.9	58.4
07:00 PM - 08:00 PM	59.7	75.6	58.6
08:00 PM - 09:00 PM	59.1	63.7	58.6
09:00 PM - 10:00 PM	59.4	77.0	58.7
10:00 PM - 11:00 PM	59.6	63.4	59.1
11:00 PM - 12:00 AM	59.5	63.4	59.0
12:00 AM - 01:00 AM	59.4	68.2	59.0
01:00 AM - 02:00 AM	59.4	66.8	59.0
02:00 AM - 03:00 AM	59.6	61.5	59.1
03:00 AM - 04:00 AM	59.6	61.6	59.2
04:00 AM - 05:00 AM	59.5	62.5	59.1
05:00 AM - 06:00 AM	59.7	68.4	59.2
06:00 AM - 07:00 AM	60.0	71.3	59.1
07:00 AM - 08:00 AM	62.1	88.4	58.9
08:00 AM - 09:00 AM	58.2	72.6	57.4
09:00 AM - 10:00 AM	59.2	81.2	57.2

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 88.4  
L90 (dB(A)) 58.6  
Ldn (dB(A)) 66.0  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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14289-41/ EMAIL

S:\Reports\_Air Noise.rpt ( 2:59PM)



## Analysis / Test Report



TESTING  
No.0042

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2599771

Date Received : Nov 10, 2025

Date Reported : Nov 14, 2025

Report Number: 3450736-1

Page 1 of 1

Sample Number 2599771-14  
Parameter Noise (Leq 24 hrs.)  
Location N2 : พื้นที่โครงการ (บริเวณริมรั้วโครงการด้านทิศตะวันตก) (GPS 47P 744656, 1419366)  
Measurement Date Nov 06 - Nov 07, 2025  
Measurement by Norranon Tathongkham  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.3	74.7	57.1
11:00 AM - 12:00 PM	57.6	72.6	56.8
12:00 PM - 01:00 PM	57.6	73.1	56.7
01:00 PM - 02:00 PM	59.5	81.5	57.5
02:00 PM - 03:00 PM	59.5	77.7	57.9
03:00 PM - 04:00 PM	58.9	76.0	57.9
04:00 PM - 05:00 PM	59.2	74.2	58.0
05:00 PM - 06:00 PM	59.8	80.9	58.3
06:00 PM - 07:00 PM	60.5	75.9	58.7
07:00 PM - 08:00 PM	60.3	77.5	59.2
08:00 PM - 09:00 PM	59.7	73.7	59.1
09:00 PM - 10:00 PM	59.6	68.2	59.0
10:00 PM - 11:00 PM	59.6	62.8	59.1
11:00 PM - 12:00 AM	59.4	62.6	59.0
12:00 AM - 01:00 AM	59.5	66.7	59.0
01:00 AM - 02:00 AM	59.1	60.7	58.7
02:00 AM - 03:00 AM	59.7	68.4	59.3
03:00 AM - 04:00 AM	59.2	61.3	58.8
04:00 AM - 05:00 AM	59.1	61.5	58.7
05:00 AM - 06:00 AM	58.8	65.8	58.3
06:00 AM - 07:00 AM	60.1	72.8	59.2
07:00 AM - 08:00 AM	62.7	82.5	59.4
08:00 AM - 09:00 AM	60.4	77.6	58.9
09:00 AM - 10:00 AM	59.5	74.1	58.6

Leq Average 24 hrs. (dB(A)) 59.6  
Lmax (dB(A)) 82.5  
L90 (dB(A)) 58.7  
Ldn (dB(A)) 65.9  
Standard (dB(A)) 70 115

Reference Method : ISO 1996-1 : 2016

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

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

Technical Management

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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14289-41/ EMAIL

S:\Reports\_Air Noise.rpt ( 3:00PM)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449634-1

Page 1 of 3

Sample Number : 2599776-1  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Oct 31, 2025	Leq	L90	Oct 31, 2025	Leq	L90	Oct 31, 2025	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
10:00 AM - 10:05 AM	58.8	43.7	12:40 PM - 12:45 PM	62.8	56.1	03:20 PM - 03:25 PM	57.5	45.4
10:05 AM - 10:10 AM	58.5	43.3	12:45 PM - 12:50 PM	61.2	54.8	03:25 PM - 03:30 PM	63.5	44.8
10:10 AM - 10:15 AM	58.3	45.0	12:50 PM - 12:55 PM	60.2	51.8	03:30 PM - 03:35 PM	60.9	46.9
10:15 AM - 10:20 AM	58.2	39.5	12:55 PM - 01:00 PM	62.0	54.4	03:35 PM - 03:40 PM	58.4	45.7
10:20 AM - 10:25 AM	62.5	44.8	01:00 PM - 01:05 PM	60.4	53.3	03:40 PM - 03:45 PM	60.8	46.2
10:25 AM - 10:30 AM	59.3	45.7	01:05 PM - 01:10 PM	59.1	46.7	03:45 PM - 03:50 PM	57.7	44.1
10:30 AM - 10:35 AM	63.0	46.9	01:10 PM - 01:15 PM	57.8	45.5	03:50 PM - 03:55 PM	59.2	43.9
10:35 AM - 10:40 AM	57.1	45.6	01:15 PM - 01:20 PM	62.9	45.6	03:55 PM - 04:00 PM	58.5	48.1
10:40 AM - 10:45 AM	57.2	44.2	01:20 PM - 01:25 PM	59.5	46.3	04:00 PM - 04:05 PM	57.0	48.9
10:45 AM - 10:50 AM	57.1	44.3	01:25 PM - 01:30 PM	61.2	46.4	04:05 PM - 04:10 PM	57.2	46.7
10:50 AM - 10:55 AM	57.3	43.9	01:30 PM - 01:35 PM	55.7	48.7	04:10 PM - 04:15 PM	61.3	46.2
10:55 AM - 11:00 AM	61.0	44.8	01:35 PM - 01:40 PM	58.1	47.1	04:15 PM - 04:20 PM	62.4	49.6
11:00 AM - 11:05 AM	60.3	45.6	01:40 PM - 01:45 PM	61.5	47.1	04:20 PM - 04:25 PM	59.8	47.8
11:05 AM - 11:10 AM	58.3	47.8	01:45 PM - 01:50 PM	58.6	46.1	04:25 PM - 04:30 PM	57.7	46.3
11:10 AM - 11:15 AM	59.3	49.7	01:50 PM - 01:55 PM	58.0	46.1	04:30 PM - 04:35 PM	62.4	49.8
11:15 AM - 11:20 AM	57.6	44.7	01:55 PM - 02:00 PM	58.7	48.1	04:35 PM - 04:40 PM	61.2	49.9
11:20 AM - 11:25 AM	58.0	45.1	02:00 PM - 02:05 PM	55.7	45.7	04:40 PM - 04:45 PM	61.2	49.9
11:25 AM - 11:30 AM	59.3	45.3	02:05 PM - 02:10 PM	57.2	45.9	04:45 PM - 04:50 PM	61.2	47.9
11:30 AM - 11:35 AM	59.0	47.0	02:10 PM - 02:15 PM	61.0	45.0	04:50 PM - 04:55 PM	64.6	48.9
11:35 AM - 11:40 AM	59.1	46.5	02:15 PM - 02:20 PM	58.6	46.1	04:55 PM - 05:00 PM	59.3	46.9
11:40 AM - 11:45 AM	61.4	46.4	02:20 PM - 02:25 PM	58.5	45.2	05:00 PM - 05:05 PM	69.2	52.4
11:45 AM - 11:50 AM	61.6	45.6	02:25 PM - 02:30 PM	62.8	44.0	05:05 PM - 05:10 PM	47.8	56.1
11:50 AM - 11:55 AM	58.0	45.4	02:30 PM - 02:35 PM	59.2	45.3	05:10 PM - 05:15 PM	45.0	52.9
11:55 AM - 12:00 PM	57.9	45.1	02:35 PM - 02:40 PM	58.2	46.1	05:15 PM - 05:20 PM	61.8	49.3
12:00 PM - 12:05 PM	62.2	46.2	02:40 PM - 02:45 PM	54.9	44.1	05:20 PM - 05:25 PM	61.8	47.4
12:05 PM - 12:10 PM	58.8	46.1	02:45 PM - 02:50 PM	56.4	47.0	05:25 PM - 05:30 PM	61.9	46.8
12:10 PM - 12:15 PM	59.2	45.9	02:50 PM - 02:55 PM	59.8	46.5	05:30 PM - 05:35 PM	60.7	50.5
12:15 PM - 12:20 PM	55.1	46.3	02:55 PM - 03:00 PM	63.4	46.8	05:35 PM - 05:40 PM	61.0	46.2
12:20 PM - 12:25 PM	56.7	44.9	03:00 PM - 03:05 PM	60.0	44.6	05:40 PM - 05:45 PM	57.7	46.2
12:25 PM - 12:30 PM	59.7	48.6	03:05 PM - 03:10 PM	63.0	44.5	05:45 PM - 05:50 PM	57.7	46.2
12:30 PM - 12:35 PM	60.6	50.7	03:10 PM - 03:15 PM	59.3	46.6	05:50 PM - 05:55 PM	57.5	45.7
12:35 PM - 12:40 PM	59.1	51.2	03:15 PM - 03:20 PM	58.3	47.6	05:55 PM - 06:00 PM	58.7	48.0

Approved by

Sarayu Thitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449634-1

Page 2 of 3

Sample Number : 2599776-1  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Oct 31, 2025	Leq	L90	Oct 31, 2025	Leq	L90	Oct 31 - Nov 01, 2025	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
06:00 PM - 06:05 PM	59.6	48.0	08:40 PM - 08:45 PM	57.7	50.9	11:20 PM - 11:25 PM	52.1	45.0
06:05 PM - 06:10 PM	59.9	48.5	08:45 PM - 08:50 PM	56.5	51.9	11:25 PM - 11:30 PM	57.4	47.8
06:10 PM - 06:15 PM	58.3	48.9	08:50 PM - 08:55 PM	57.3	50.7	11:30 PM - 11:35 PM	53.6	47.3
06:15 PM - 06:20 PM	59.7	49.1	08:55 PM - 09:00 PM	57.1	49.6	11:35 PM - 11:40 PM	58.9	54.6
06:20 PM - 06:25 PM	58.9	48.9	09:00 PM - 09:05 PM	60.0	49.5	11:40 PM - 11:45 PM	63.5	58.8
06:25 PM - 06:30 PM	59.9	49.4	09:05 PM - 09:10 PM	54.4	47.8	11:45 PM - 11:50 PM	62.1	58.0
06:30 PM - 06:35 PM	59.7	48.8	09:10 PM - 09:15 PM	54.9	47.0	11:50 PM - 11:55 PM	59.6	56.9
06:35 PM - 06:40 PM	57.2	48.6	09:15 PM - 09:20 PM	53.9	47.1	11:55 PM - 12:00 AM	63.0	59.9
06:40 PM - 06:45 PM	55.7	49.5	09:20 PM - 09:25 PM	57.4	49.2	12:00 AM - 12:05 AM	63.5	60.7
06:45 PM - 06:50 PM	59.7	49.6	09:25 PM - 09:30 PM	56.1	47.9	12:05 AM - 12:10 AM	61.5	60.0
06:50 PM - 06:55 PM	58.0	49.9	09:30 PM - 09:35 PM	56.2	47.0	12:10 AM - 12:15 AM	63.3	60.9
06:55 PM - 07:00 PM	58.7	49.6	09:35 PM - 09:40 PM	57.9	47.1	12:15 AM - 12:20 AM	64.5	61.2
07:00 PM - 07:05 PM	59.7	51.1	09:40 PM - 09:45 PM	56.9	47.2	12:20 AM - 12:25 AM	67.9	61.7
07:05 PM - 07:10 PM	64.4	50.4	09:45 PM - 09:50 PM	56.3	46.1	12:25 AM - 12:30 AM	65.2	63.5
07:10 PM - 07:15 PM	59.4	49.7	09:50 PM - 09:55 PM	65.4	47.3	12:30 AM - 12:35 AM	65.2	63.0
07:15 PM - 07:20 PM	58.4	49.6	09:55 PM - 10:00 PM	55.5	46.5	12:35 AM - 12:40 AM	65.0	62.8
07:20 PM - 07:25 PM	58.8	49.2	10:00 PM - 10:05 PM	53.2	46.3	12:40 AM - 12:45 AM	63.8	61.8
07:25 PM - 07:30 PM	60.3	51.2	10:05 PM - 10:10 PM	54.8	46.1	12:45 AM - 12:50 AM	63.6	61.8
07:30 PM - 07:35 PM	61.1	50.3	10:10 PM - 10:15 PM	59.6	47.6	12:50 AM - 12:55 AM	63.3	61.9
07:35 PM - 07:40 PM	64.6	49.9	10:15 PM - 10:20 PM	57.6	46.7	12:55 AM - 01:00 AM	64.5	63.4
07:40 PM - 07:45 PM	59.5	48.6	10:20 PM - 10:25 PM	59.9	46.8	01:00 AM - 01:05 AM	64.6	63.4
07:45 PM - 07:50 PM	64.6	48.0	10:25 PM - 10:30 PM	62.6	47.7	01:05 AM - 01:10 AM	64.6	63.4
07:50 PM - 07:55 PM	58.0	48.5	10:30 PM - 10:35 PM	52.6	47.1	01:10 AM - 01:15 AM	64.0	63.1
07:55 PM - 08:00 PM	62.4	51.9	10:35 PM - 10:40 PM	52.7	46.8	01:15 AM - 01:20 AM	63.8	62.8
08:00 PM - 08:05 PM	64.6	59.5	10:40 PM - 10:45 PM	54.0	48.0	01:20 AM - 01:25 AM	63.8	62.9
08:05 PM - 08:10 PM	64.1	58.5	10:45 PM - 10:50 PM	63.5	48.0	01:25 AM - 01:30 AM	64.5	63.5
08:10 PM - 08:15 PM	69.0	61.8	10:50 PM - 10:55 PM	58.2	46.5	01:30 AM - 01:35 AM	64.2	62.7
08:15 PM - 08:20 PM	68.2	61.6	10:55 PM - 11:00 PM	51.9	47.4	01:35 AM - 01:40 AM	63.2	57.9
08:20 PM - 08:25 PM	63.9	60.9	11:00 PM - 11:05 PM	51.5	47.6	01:40 AM - 01:45 AM	62.3	58.1
08:25 PM - 08:30 PM	63.1	57.2	11:05 PM - 11:10 PM	54.8	47.0	01:45 AM - 01:50 AM	63.8	61.9
08:30 PM - 08:35 PM	59.9	53.4	11:10 PM - 11:15 PM	50.4	46.9	01:50 AM - 01:55 AM	64.5	61.8
08:35 PM - 08:40 PM	57.4	50.3	11:15 PM - 11:20 PM	50.2	45.0	01:55 AM - 02:00 AM	64.1	61.7

Approved by

Sarayu Thitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449634-1

Page 3 of 3

Sample Number : 2599776-1  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Nov 01, 2025	Leq dB(A)	L90 dB(A)	Nov 01, 2025	Leq dB(A)	L90 dB(A)	Nov 01, 2025	Leq dB(A)	L90 dB(A)
Time			Time			Time		
02:00 AM - 02:05 AM	64.2	62.4	04:40 AM - 04:45 AM	56.1	47.6	07:20 AM - 07:25 AM	61.6	50.3
02:05 AM - 02:10 AM	62.3	56.6	04:45 AM - 04:50 AM	54.7	47.7	07:25 AM - 07:30 AM	62.2	51.4
02:10 AM - 02:15 AM	61.1	56.8	04:50 AM - 04:55 AM	53.1	48.1	07:30 AM - 07:35 AM	63.2	52.8
02:15 AM - 02:20 AM	58.2	52.7	04:55 AM - 05:00 AM	54.4	48.8	07:35 AM - 07:40 AM	64.2	51.6
02:20 AM - 02:25 AM	58.2	54.4	05:00 AM - 05:05 AM	57.5	49.4	07:40 AM - 07:45 AM	62.7	52.9
02:25 AM - 02:30 AM	59.9	52.9	05:05 AM - 05:10 AM	62.2	49.2	07:45 AM - 07:50 AM	64.2	51.7
02:30 AM - 02:35 AM	60.6	55.8	05:10 AM - 05:15 AM	58.6	47.8	07:50 AM - 07:55 AM	65.1	49.7
02:35 AM - 02:40 AM	57.5	55.4	05:15 AM - 05:20 AM	56.4	47.2	07:55 AM - 08:00 AM	59.0	46.3
02:40 AM - 02:45 AM	57.1	54.7	05:20 AM - 05:25 AM	63.3	47.9	08:00 AM - 08:05 AM	62.5	47.5
02:45 AM - 02:50 AM	55.2	53.1	05:25 AM - 05:30 AM	58.9	48.2	08:05 AM - 08:10 AM	59.2	46.3
02:50 AM - 02:55 AM	57.4	52.6	05:30 AM - 05:35 AM	52.3	47.8	08:10 AM - 08:15 AM	59.6	46.2
02:55 AM - 03:00 AM	54.8	52.6	05:35 AM - 05:40 AM	58.0	48.2	08:15 AM - 08:20 AM	61.6	49.5
03:00 AM - 03:05 AM	58.5	53.0	05:40 AM - 05:45 AM	55.0	47.7	08:20 AM - 08:25 AM	60.2	47.4
03:05 AM - 03:10 AM	53.5	52.4	05:45 AM - 05:50 AM	54.1	48.4	08:25 AM - 08:30 AM	58.7	48.0
03:10 AM - 03:15 AM	54.7	53.5	05:50 AM - 05:55 AM	53.7	46.2	08:30 AM - 08:35 AM	58.7	42.3
03:15 AM - 03:20 AM	55.3	51.9	05:55 AM - 06:00 AM	54.4	48.0	08:35 AM - 08:40 AM	59.4	46.4
03:20 AM - 03:25 AM	54.3	51.8	06:00 AM - 06:05 AM	53.8	47.2	08:40 AM - 08:45 AM	57.9	47.5
03:25 AM - 03:30 AM	55.4	51.8	06:05 AM - 06:10 AM	52.6	45.6	08:45 AM - 08:50 AM	59.5	45.2
03:30 AM - 03:35 AM	56.5	50.9	06:10 AM - 06:15 AM	53.9	44.9	08:50 AM - 08:55 AM	58.7	42.1
03:35 AM - 03:40 AM	54.5	50.1	06:15 AM - 06:20 AM	52.4	45.6	08:55 AM - 09:00 AM	59.5	42.9
03:40 AM - 03:45 AM	51.2	49.9	06:20 AM - 06:25 AM	56.1	46.7	09:00 AM - 09:05 AM	57.9	42.5
03:45 AM - 03:50 AM	53.0	50.0	06:25 AM - 06:30 AM	54.1	47.9	09:05 AM - 09:10 AM	60.2	44.1
03:50 AM - 03:55 AM	52.9	50.1	06:30 AM - 06:35 AM	61.7	56.3	09:10 AM - 09:15 AM	58.1	45.6
03:55 AM - 04:00 AM	54.2	49.3	06:35 AM - 06:40 AM	60.7	51.3	09:15 AM - 09:20 AM	62.2	45.5
04:00 AM - 04:05 AM	53.0	49.0	06:40 AM - 06:45 AM	59.4	50.7	09:20 AM - 09:25 AM	57.2	50.3
04:05 AM - 04:10 AM	55.9	49.2	06:45 AM - 06:50 AM	61.3	51.3	09:25 AM - 09:30 AM	59.8	44.4
04:10 AM - 04:15 AM	55.3	48.1	06:50 AM - 06:55 AM	61.5	51.2	09:30 AM - 09:35 AM	59.7	43.7
04:15 AM - 04:20 AM	57.4	46.0	06:55 AM - 07:00 AM	65.5	52.1	09:35 AM - 09:40 AM	58.9	43.4
04:20 AM - 04:25 AM	58.1	47.9	07:00 AM - 07:05 AM	61.0	51.5	09:40 AM - 09:45 AM	56.4	42.4
04:25 AM - 04:30 AM	59.1	48.2	07:05 AM - 07:10 AM	61.0	50.6	09:45 AM - 09:50 AM	55.9	42.6
04:30 AM - 04:35 AM	56.3	47.6	07:10 AM - 07:15 AM	61.7	50.6	09:50 AM - 09:55 AM	57.3	42.9
04:35 AM - 04:40 AM	59.3	49.4	07:15 AM - 07:20 AM	60.6	52.3	09:55 AM - 10:00 AM	58.4	45.0



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-2  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 01 - Nov 02, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 01, 2025				Nov 01, 2025				Nov 01 - Nov 02, 2025			
Time	Leq dB(A)	L90 dB(A)		Time	Leq dB(A)	L90 dB(A)		Time	Leq dB(A)	L90 dB(A)	
06:00 PM - 06:05 PM	59.1	52.1		08:40 PM - 08:45 PM	54.1	48.9		11:20 PM - 11:25 PM	53.3	45.9	
06:05 PM - 06:10 PM	59.5	52.2		08:45 PM - 08:50 PM	55.6	49.1		11:25 PM - 11:30 PM	49.5	45.4	
06:10 PM - 06:15 PM	60.4	51.0		08:50 PM - 08:55 PM	58.6	49.5		11:30 PM - 11:35 PM	56.9	45.7	
06:15 PM - 06:20 PM	56.9	50.4		08:55 PM - 09:00 PM	58.9	49.8		11:35 PM - 11:40 PM	68.8	46.9	
06:20 PM - 06:25 PM	58.4	50.7		09:00 PM - 09:05 PM	55.5	49.4		11:40 PM - 11:45 PM	52.3	45.1	
06:25 PM - 06:30 PM	57.6	51.5		09:05 PM - 09:10 PM	57.2	48.2		11:45 PM - 11:50 PM	51.6	45.2	
06:30 PM - 06:35 PM	58.3	52.2		09:10 PM - 09:15 PM	55.9	49.0		11:50 PM - 11:55 PM	55.4	51.1	
06:35 PM - 06:40 PM	58.6	52.1		09:15 PM - 09:20 PM	54.4	48.8		11:55 PM - 12:00 AM	54.4	48.5	
06:40 PM - 06:45 PM	58.3	51.3		09:20 PM - 09:25 PM	56.5	48.5		12:00 AM - 12:05 AM	64.5	46.2	
06:45 PM - 06:50 PM	56.7	51.0		09:25 PM - 09:30 PM	56.6	49.2		12:05 AM - 12:10 AM	53.8	45.8	
06:50 PM - 06:55 PM	57.8	51.1		09:30 PM - 09:35 PM	58.3	49.4		12:10 AM - 12:15 AM	59.5	45.7	
06:55 PM - 07:00 PM	56.7	51.7		09:35 PM - 09:40 PM	56.2	48.3		12:15 AM - 12:20 AM	47.4	45.8	
07:00 PM - 07:05 PM	60.3	51.9		09:40 PM - 09:45 PM	56.8	48.5		12:20 AM - 12:25 AM	58.2	46.6	
07:05 PM - 07:10 PM	59.2	51.7		09:45 PM - 09:50 PM	53.7	47.9		12:25 AM - 12:30 AM	46.9	45.9	
07:10 PM - 07:15 PM	62.1	52.0		09:50 PM - 09:55 PM	51.7	48.0		12:30 AM - 12:35 AM	52.9	45.8	
07:15 PM - 07:20 PM	58.5	51.8		09:55 PM - 10:00 PM	52.6	47.1		12:35 AM - 12:40 AM	49.0	44.8	
07:20 PM - 07:25 PM	58.8	53.1		10:00 PM - 10:05 PM	65.6	47.1		12:40 AM - 12:45 AM	52.3	45.5	
07:25 PM - 07:30 PM	65.7	53.1		10:05 PM - 10:10 PM	61.3	46.9		12:45 AM - 12:50 AM	49.5	45.7	
07:30 PM - 07:35 PM	58.7	52.4		10:10 PM - 10:15 PM	53.3	46.6		12:50 AM - 12:55 AM	51.8	45.5	
07:35 PM - 07:40 PM	59.8	52.7		10:15 PM - 10:20 PM	56.3	47.0		12:55 AM - 01:00 AM	53.9	45.8	
07:40 PM - 07:45 PM	58.9	52.3		10:20 PM - 10:25 PM	60.3	47.0		01:00 AM - 01:05 AM	53.1	45.9	
07:45 PM - 07:50 PM	64.1	61.4		10:25 PM - 10:30 PM	62.6	47.3		01:05 AM - 01:10 AM	43.7	46.1	
07:50 PM - 07:55 PM	60.7	50.9		10:30 PM - 10:35 PM	51.8	46.8		01:10 AM - 01:15 AM	48.9	46.0	
07:55 PM - 08:00 PM	57.2	50.6		10:35 PM - 10:40 PM	67.8	47.1		01:15 AM - 01:20 AM	46.6	45.5	
08:00 PM - 08:05 PM	59.5	50.9		10:40 PM - 10:45 PM	62.1	47.2		01:20 AM - 01:25 AM	45.7	44.7	
08:05 PM - 08:10 PM	60.7	50.8		10:45 PM - 10:50 PM	52.9	46.2		01:25 AM - 01:30 AM	53.9	44.0	
08:10 PM - 08:15 PM	59.3	51.0		10:50 PM - 10:55 PM	49.8	46.0		01:30 AM - 01:35 AM	49.2	43.6	
08:15 PM - 08:20 PM	56.0	49.7		10:55 PM - 11:00 PM	57.9	46.3		01:35 AM - 01:40 AM	49.2	43.6	
08:20 PM - 08:25 PM	60.7	50.6		11:00 PM - 11:05 PM	56.3	46.2		01:40 AM - 01:45 AM	47.1	43.5	
08:25 PM - 08:30 PM	58.8	49.2		11:05 PM - 11:10 PM	50.3	45.3		01:45 AM - 01:50 AM	46.1	43.4	
08:30 PM - 08:35 PM	55.4	49.2		11:10 PM - 11:15 PM	51.7	45.4		01:50 AM - 01:55 AM	52.0	43.4	
08:35 PM - 08:40 PM	60.4	49.0		11:15 PM - 11:20 PM	52.9	45.8		01:55 AM - 02:00 AM	58.1	43.7	

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-2  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 01 - Nov 02, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 02, 2025				Nov 02, 2025				Nov 02, 2025			
Time	Leq dB(A)	L90 dB(A)		Time	Leq dB(A)	L90 dB(A)		Time	Leq dB(A)	L90 dB(A)	
02:00 AM - 02:05 AM	49.7	43.9		04:40 AM - 04:45 AM	45.1	43.6		07:20 AM - 07:25 AM	60.3	46.6	
02:05 AM - 02:10 AM	44.8	44.0		04:45 AM - 04:50 AM	50.8	43.5		07:25 AM - 07:30 AM	57.9	46.7	
02:10 AM - 02:15 AM	51.6	43.5		04:50 AM - 04:55 AM	49.6	43.9		07:30 AM - 07:35 AM	61.5	49.5	
02:15 AM - 02:20 AM	47.9	43.3		04:55 AM - 05:00 AM	58.5	45.1		07:35 AM - 07:40 AM	58.8	49.3	
02:20 AM - 02:25 AM	46.3	43.1		05:00 AM - 05:05 AM	55.4	44.6		07:40 AM - 07:45 AM	58.8	49.2	
02:25 AM - 02:30 AM	53.8	42.9		05:05 AM - 05:10 AM	55.8	44.8		07:45 AM - 07:50 AM	57.9	46.7	
02:30 AM - 02:35 AM	46.7	41.9		05:10 AM - 05:15 AM	51.5	45.0		07:50 AM - 07:55 AM	40.1	49.2	
02:35 AM - 02:40 AM	61.4	42.2		05:15 AM - 05:20 AM	49.0	45.0		07:55 AM - 08:00 AM	59.2	47.9	
02:40 AM - 02:45 AM	65.7	42.3		05:20 AM - 05:25 AM	50.6	44.9		08:00 AM - 08:05 AM	63.2	50.7	
02:45 AM - 02:50 AM	47.9	42.9		05:25 AM - 05:30 AM	46.8	45.1		08:05 AM - 08:10 AM	61.4	50.4	
02:50 AM - 02:55 AM	45.7	43.3		05:30 AM - 05:35 AM	57.2	45.5		08:10 AM - 08:15 AM	59.6	52.1	
02:55 AM - 03:00 AM	69.4	43.3		05:35 AM - 05:40 AM	53.9	45.3		08:15 AM - 08:20 AM	59.5	51.1	
03:00 AM - 03:05 AM	41.6	42.9		05:40 AM - 05:45 AM	53.7	45.5		08:20 AM - 08:25 AM	59.1	49.8	
03:05 AM - 03:10 AM	47.6	42.4		05:45 AM - 05:50 AM	53.9	45.2		08:25 AM - 08:30 AM	58.1	48.7	
03:10 AM - 03:15 AM	46.5	42.7		05:50 AM - 05:55 AM	55.4	46.3		08:30 AM - 08:35 AM	62.6	50.7	
03:15 AM - 03:20 AM	50.1	42.3		05:55 AM - 06:00 AM	54.7	46.3		08:35 AM - 08:40 AM	62.7	51.8	
03:20 AM - 03:25 AM	42.7	41.7		06:00 AM - 06:05 AM	54.8	46.5		08:40 AM - 08:45 AM	57.6	49.7	
03:25 AM - 03:30 AM	42.2	41.6		06:05 AM - 06:10 AM	54.6	46.4		08:45 AM - 08:50 AM	62.6	50.8	
03:30 AM - 03:35 AM	42.6	41.6		06:10 AM - 06:15 AM	56.3	46.0		08:50 AM - 08:55 AM	61.7	49.2	
03:35 AM - 03:40 AM	42.1	41.2		06:15 AM - 06:20 AM	57.5	47.7		08:55 AM - 09:00 AM	62.1	49.7	
03:40 AM - 03:45 AM	42.1	41.1		06:20 AM - 06:25 AM	58.2	49.8		09:00 AM - 09:05 AM	62.8	50.4	
03:45 AM - 03:50 AM	47.3	41.7		06:25 AM - 06:30 AM	64.6	48.3		09:05 AM - 09:10 AM	61.1	50.6	
03:50 AM - 03:55 AM	48.0	41.7		06:30 AM - 06:35 AM	59.5	48.8		09:10 AM - 09:15 AM	61.4	48.5	
03:55 AM - 04:00 AM	42.8	41.6		06:35 AM - 06:40 AM	56.6	46.3		09:15 AM - 09:20 AM	58.4	47.4	
04:00 AM - 04:05 AM	42.7	41.7		06:40 AM - 06:45 AM	63.5	46.9		09:20 AM - 09:25 AM	51.7	48.2	
04:05 AM - 04:10 AM	48.7	42.1		06:45 AM - 06:50 AM	61.7	45.5		09:25 AM - 09:30 AM	59.2	48.5	
04:10 AM - 04:15 AM	50.2	42.2		06:50 AM - 06:55 AM	59.8	50.4		09:30 AM - 09:35 AM	57.0	46.0	
04:15 AM - 04:20 AM	45.0	42.3		06:55 AM - 07:00 AM	61.4	44.5		09:35 AM - 09:40 AM	64.8	45.8	
04:20 AM - 04:25 AM	48.5	42.4		07:00 AM - 07:05 AM	58.0	48.8		09:40 AM - 09:45 AM	59.4	46.7	
04:25 AM - 04:30 AM	49.5	42.5		07:05 AM - 07:10 AM	57.1	49.0		09:45 AM - 09:50 AM	58.8	47.1	
04:30 AM - 04:35 AM	52.1	42.9		07:10 AM - 07:15 AM	61.5	50.9		09:50 AM - 09:55 AM	60.0	46.6	
04:35 AM - 04:40 AM	50.1	42.8		07:15 AM - 07:20 AM	60.1	48.8		09:55 AM - 10:00 AM	57.3	47.8	

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-3  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 02 - Nov 03, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 02, 2025			Nov 02, 2025			Nov 02, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	57.8	47.1	12:40 PM - 12:45 PM	66.6	63.3	03:20 PM - 03:25 PM	56.9	43.4
10:05 AM - 10:10 AM	59.8	49.7	12:45 PM - 12:50 PM	61.8	52.7	03:25 PM - 03:30 PM	57.4	44.2
10:10 AM - 10:15 AM	57.5	47.8	12:50 PM - 12:55 PM	64.2	47.4	03:30 PM - 03:35 PM	59.6	45.0
10:15 AM - 10:20 AM	56.4	46.5	12:55 PM - 01:00 PM	57.8	46.2	03:35 PM - 03:40 PM	62.6	45.6
10:20 AM - 10:25 AM	57.6	47.7	01:00 PM - 01:05 PM	57.1	46.2	03:40 PM - 03:45 PM	55.7	42.2
10:25 AM - 10:30 AM	59.3	47.7	01:05 PM - 01:10 PM	55.3	43.5	03:45 PM - 03:50 PM	57.9	45.1
10:30 AM - 10:35 AM	60.4	49.0	01:10 PM - 01:15 PM	55.6	43.6	03:50 PM - 03:55 PM	57.7	45.0
10:35 AM - 10:40 AM	59.1	46.7	01:15 PM - 01:20 PM	54.5	43.5	03:55 PM - 04:00 PM	56.0	46.9
10:40 AM - 10:45 AM	57.1	42.1	01:20 PM - 01:25 PM	61.1	45.7	04:00 PM - 04:05 PM	55.8	48.2
10:45 AM - 10:50 AM	61.3	42.8	01:25 PM - 01:30 PM	58.3	44.0	04:05 PM - 04:10 PM	60.9	53.8
10:50 AM - 10:55 AM	61.1	47.7	01:30 PM - 01:35 PM	53.3	42.6	04:10 PM - 04:15 PM	59.1	53.8
10:55 AM - 11:00 AM	61.4	48.9	01:35 PM - 01:40 PM	61.8	43.9	04:15 PM - 04:20 PM	58.5	52.1
11:00 AM - 11:05 AM	56.7	43.2	01:40 PM - 01:45 PM	51.4	41.3	04:20 PM - 04:25 PM	58.6	51.7
11:05 AM - 11:10 AM	57.1	42.0	01:45 PM - 01:50 PM	58.3	43.3	04:25 PM - 04:30 PM	61.7	56.8
11:10 AM - 11:15 AM	58.5	43.6	01:50 PM - 01:55 PM	56.3	42.3	04:30 PM - 04:35 PM	63.2	58.7
11:15 AM - 11:20 AM	57.7	45.0	01:55 PM - 02:00 PM	60.4	43.2	04:35 PM - 04:40 PM	62.2	58.5
11:20 AM - 11:25 AM	58.0	46.6	02:00 PM - 02:05 PM	55.5	42.0	04:40 PM - 04:45 PM	62.6	57.8
11:25 AM - 11:30 AM	58.5	47.1	02:05 PM - 02:10 PM	55.7	40.9	04:45 PM - 04:50 PM	63.7	55.1
11:30 AM - 11:35 AM	61.9	50.0	02:10 PM - 02:15 PM	61.9	42.6	04:50 PM - 04:55 PM	60.1	53.5
11:35 AM - 11:40 AM	62.3	47.2	02:15 PM - 02:20 PM	51.2	40.3	04:55 PM - 05:00 PM	59.6	53.5
11:40 AM - 11:45 AM	58.8	47.2	02:20 PM - 02:25 PM	55.8	41.1	05:00 PM - 05:05 PM	61.7	53.2
11:45 AM - 11:50 AM	61.4	48.1	02:25 PM - 02:30 PM	65.6	42.2	05:05 PM - 05:10 PM	62.8	51.6
11:50 AM - 11:55 AM	57.5	48.0	02:30 PM - 02:35 PM	60.6	44.0	05:10 PM - 05:15 PM	58.9	49.7
11:55 AM - 12:00 PM	62.6	49.5	02:35 PM - 02:40 PM	59.9	42.4	05:15 PM - 05:20 PM	58.9	49.7
12:00 PM - 12:05 PM	64.3	49.0	02:40 PM - 02:45 PM	59.9	42.4	05:20 PM - 05:25 PM	61.7	46.5
12:05 PM - 12:10 PM	59.7	47.0	02:45 PM - 02:50 PM	63.4	42.5	05:25 PM - 05:30 PM	59.8	49.9
12:10 PM - 12:15 PM	57.2	46.7	02:50 PM - 02:55 PM	60.6	43.7	05:30 PM - 05:35 PM	59.7	45.6
12:15 PM - 12:20 PM	60.8	46.1	02:55 PM - 03:00 PM	60.8	45.9	05:35 PM - 05:40 PM	59.8	47.0
12:20 PM - 12:25 PM	57.8	45.7	03:00 PM - 03:05 PM	56.7	43.2	05:40 PM - 05:45 PM	60.3	45.3
12:25 PM - 12:30 PM	56.6	47.3	03:05 PM - 03:10 PM	59.8	45.8	05:45 PM - 05:50 PM	55.1	45.1
12:30 PM - 12:35 PM	60.2	49.2	03:10 PM - 03:15 PM	58.0	45.5	05:50 PM - 05:55 PM	57.2	46.3
12:35 PM - 12:40 PM	61.9	55.9	03:15 PM - 03:20 PM	55.5	43.2	05:55 PM - 06:00 PM	58.2	47.2



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-3  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 02 - Nov 03, 2025  
Measurement by : Noranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 03, 2025			Nov 03, 2025			Nov 03, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	63.7	41.6	04:40 AM - 04:45 AM	50.1	43.9	07:20 AM - 07:25 AM	63.7	50.5
02:05 AM - 02:10 AM	42.5	41.3	04:45 AM - 04:50 AM	48.8	45.0	07:25 AM - 07:30 AM	63.3	52.3
02:10 AM - 02:15 AM	44.5	41.6	04:50 AM - 04:55 AM	47.5	45.1	07:30 AM - 07:35 AM	62.0	53.2
02:15 AM - 02:20 AM	42.7	41.5	04:55 AM - 05:00 AM	60.9	45.4	07:35 AM - 07:40 AM	66.3	54.1
02:20 AM - 02:25 AM	44.2	41.5	05:00 AM - 05:05 AM	51.1	45.9	07:40 AM - 07:45 AM	66.0	52.8
02:25 AM - 02:30 AM	43.8	41.6	05:05 AM - 05:10 AM	49.1	45.3	07:45 AM - 07:50 AM	64.5	51.2
02:30 AM - 02:35 AM	42.4	41.2	05:10 AM - 05:15 AM	48.3	45.9	07:50 AM - 07:55 AM	63.3	50.1
02:35 AM - 02:40 AM	42.5	41.4	05:15 AM - 05:20 AM	51.2	46.1	07:55 AM - 08:00 AM	59.3	45.5
02:40 AM - 02:45 AM	42.3	41.2	05:20 AM - 05:25 AM	55.1	46.3	08:00 AM - 08:05 AM	60.0	46.3
02:45 AM - 02:50 AM	42.2	40.9	05:25 AM - 05:30 AM	53.8	46.7	08:05 AM - 08:10 AM	58.2	44.1
02:50 AM - 02:55 AM	42.5	40.8	05:30 AM - 05:35 AM	55.7	47.2	08:10 AM - 08:15 AM	59.5	43.7
02:55 AM - 03:00 AM	45.7	42.7	05:35 AM - 05:40 AM	53.4	48.0	08:15 AM - 08:20 AM	58.3	44.5
03:00 AM - 03:05 AM	51.0	42.3	05:40 AM - 05:45 AM	55.5	48.2	08:20 AM - 08:25 AM	56.9	41.7
03:05 AM - 03:10 AM	57.3	53.1	05:45 AM - 05:50 AM	56.1	48.4	08:25 AM - 08:30 AM	57.1	45.3
03:10 AM - 03:15 AM	57.0	55.8	05:50 AM - 05:55 AM	55.0	48.2	08:30 AM - 08:35 AM	61.5	42.1
03:15 AM - 03:20 AM	58.4	56.8	05:55 AM - 06:00 AM	53.8	47.8	08:35 AM - 08:40 AM	57.9	42.0
03:20 AM - 03:25 AM	55.8	63.5	06:00 AM - 06:05 AM	55.6	48.1	08:40 AM - 08:45 AM	57.2	42.5
03:25 AM - 03:30 AM	61.6	58.1	06:05 AM - 06:10 AM	56.2	48.1	08:45 AM - 08:50 AM	59.8	44.8
03:30 AM - 03:35 AM	61.2	59.9	06:10 AM - 06:15 AM	58.9	48.3	08:50 AM - 08:55 AM	60.1	41.6
03:35 AM - 03:40 AM	60.5	58.9	06:15 AM - 06:20 AM	56.4	48.0	08:55 AM - 09:00 AM	55.3	41.3
03:40 AM - 03:45 AM	57.3	54.8	06:20 AM - 06:25 AM	55.1	47.6	09:00 AM - 09:05 AM	59.4	42.6
03:45 AM - 03:50 AM	57.9	54.8	06:25 AM - 06:30 AM	57.6	47.6	09:05 AM - 09:10 AM	66.4	47.8
03:50 AM - 03:55 AM	57.2	56.0	06:30 AM - 06:35 AM	58.5	47.6	09:10 AM - 09:15 AM	61.6	44.4
03:55 AM - 04:00 AM	55.4	51.6	06:35 AM - 06:40 AM	61.3	49.9	09:15 AM - 09:20 AM	57.2	42.5
04:00 AM - 04:05 AM	56.1	52.6	06:40 AM - 06:45 AM	60.8	50.5	09:20 AM - 09:25 AM	58.5	40.7
04:05 AM - 04:10 AM	52.0	50.6	06:45 AM - 06:50 AM	60.9	50.5	09:25 AM - 09:30 AM	57.6	43.3
04:10 AM - 04:15 AM	54.9	48.7	06:50 AM - 06:55 AM	62.3	52.4	09:30 AM - 09:35 AM	59.3	41.5
04:15 AM - 04:20 AM	53.3	47.9	06:55 AM - 07:00 AM	62.4	50.6	09:35 AM - 09:40 AM	59.9	46.7
04:20 AM - 04:25 AM	65.1	47.1	07:00 AM - 07:05 AM	64.1	53.2	09:40 AM - 09:45 AM	58.4	43.9
04:25 AM - 04:30 AM	50.6	49.1	07:05 AM - 07:10 AM	61.6	52.0	09:45 AM - 09:50 AM	56.0	42.7
04:30 AM - 04:35 AM	48.7	48.3	07:10 AM - 07:15 AM	63.3	50.6	09:50 AM - 09:55 AM	55.8	41.3
04:35 AM - 04:40 AM	52.1	44.2	07:15 AM - 07:20 AM	63.6	52.9	09:55 AM - 10:00 AM	60.3	42.0

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-4  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 03 - Nov 04, 2025  
Measurement by : Noranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 03, 2025			Nov 03, 2025			Nov 03, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	56.7	40.7	12:40 PM - 12:45 PM	61.3	42.0	03:20 PM - 03:25 PM	58.6	48.8
10:05 AM - 10:10 AM	54.3	42.4	12:45 PM - 12:50 PM	56.3	41.8	03:25 PM - 03:30 PM	59.1	48.2
10:10 AM - 10:15 AM	60.8	43.8	12:50 PM - 12:55 PM	53.7	44.4	03:30 PM - 03:35 PM	57.4	49.5
10:15 AM - 10:20 AM	55.8	42.0	12:55 PM - 01:00 PM	57.1	42.0	03:35 PM - 03:40 PM	57.8	46.8
10:20 AM - 10:25 AM	56.6	41.6	01:00 PM - 01:05 PM	55.3	44.1	03:40 PM - 03:45 PM	63.0	45.7
10:25 AM - 10:30 AM	58.4	42.4	01:05 PM - 01:10 PM	55.9	44.5	03:45 PM - 03:50 PM	59.8	44.1
10:30 AM - 10:35 AM	58.9	45.6	01:10 PM - 01:15 PM	58.0	40.9	03:50 PM - 03:55 PM	58.0	44.0
10:35 AM - 10:40 AM	59.0	42.0	01:15 PM - 01:20 PM	64.1	38.6	03:55 PM - 04:00 PM	58.3	44.4
10:40 AM - 10:45 AM	55.8	42.5	01:20 PM - 01:25 PM	60.2	45.4	04:00 PM - 04:05 PM	56.9	45.7
10:45 AM - 10:50 AM	55.4	41.7	01:25 PM - 01:30 PM	56.9	42.7	04:05 PM - 04:10 PM	58.4	46.7
10:50 AM - 10:55 AM	56.7	42.0	01:30 PM - 01:35 PM	57.7	41.6	04:10 PM - 04:15 PM	55.9	43.4
10:55 AM - 11:00 AM	61.6	46.0	01:35 PM - 01:40 PM	54.1	42.3	04:15 PM - 04:20 PM	59.1	45.2
11:00 AM - 11:05 AM	57.3	41.9	01:40 PM - 01:45 PM	55.7	42.3	04:20 PM - 04:25 PM	56.1	45.3
11:05 AM - 11:10 AM	56.4	41.9	01:45 PM - 01:50 PM	57.3	42.8	04:25 PM - 04:30 PM	56.6	44.1
11:10 AM - 11:15 AM	57.1	39.5	01:50 PM - 01:55 PM	57.0	43.0	04:30 PM - 04:35 PM	59.6	46.7
11:15 AM - 11:20 AM	59.0	43.9	01:55 PM - 02:00 PM	56.2	43.7	04:35 PM - 04:40 PM	62.3	47.0
11:20 AM - 11:25 AM	56.4	43.5	02:00 PM - 02:05 PM	54.1	44.2	04:40 PM - 04:45 PM	62.6	51.0
11:25 AM - 11:30 AM	55.6	43.0	02:05 PM - 02:10 PM	54.7	45.9	04:45 PM - 04:50 PM	60.6	47.5
11:30 AM - 11:35 AM	60.7	42.8	02:10 PM - 02:15 PM	58.7	45.1	04:50 PM - 04:55 PM	66.7	60.2
11:35 AM - 11:40 AM	62.2	48.6	02:15 PM - 02:20 PM	54.6	46.3	04:55 PM - 05:00 PM	61.0	49.7
11:40 AM - 11:45 AM	57.6	42.2	02:20 PM - 02:25 PM	59.9	45.8	05:00 PM - 05:05 PM	59.5	47.7
11:45 AM - 11:50 AM	65.4	47.4	02:25 PM - 02:30 PM	57.1	46.4	05:05 PM - 05:10 PM	65.4	50.7
11:50 AM - 11:55 AM	60.7	45.8	02:30 PM - 02:35 PM	59.0	45.5	05:10 PM - 05:15 PM	64.1	54.2
11:55 AM - 12:00 PM	57.8	44.1	02:35 PM - 02:40 PM	55.9	44.9	05:15 PM - 05:20 PM	62.9	53.4
12:00 PM - 12:05 PM	60.3	43.3	02:40 PM - 02:45 PM	56.2	49.6	05:20 PM - 05:25 PM	60.4	48.3
12:05 PM - 12:10 PM	58.8	48.7	02:45 PM - 02:50 PM	56.1	46.6	05:25 PM - 05:30 PM	59.0	46.7
12:10 PM - 12:15 PM	56.9	45.9	02:50 PM - 02:55 PM	56.8	46.4	05:30 PM - 05:35 PM	59.8	48.5
12:15 PM - 12:20 PM	54.6	40.4	02:55 PM - 03:00 PM	57.8	47.9	05:35 PM - 05:40 PM	64.8	50.1
12:20 PM - 12:25 PM	55.4	41.0	03:00 PM - 03:05 PM	56.9	47.6	05:40 PM - 05:45 PM	60.9	48.1
12:25 PM - 12:30 PM	56.2	40.0	03:05 PM - 03:10 PM	57.0	49.7	05:45 PM - 05:50 PM	61.2	49.0
12:30 PM - 12:35 PM	54.2	40.5	03:10 PM - 03:15 PM	59.5	49.1	05:50 PM - 05:55 PM	64.1	57.2
12:35 PM - 12:40 PM	57.6	41.9	03:15 PM - 03:20 PM	58.8	48.8	05:55 PM - 06:00 PM	68.0	62.6

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Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-4  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 03 - Nov 04, 2025  
Measurement by : Noranon Tattongkham  
Sound Level meter : Serial No. 00296516

Nov 03, 2025			Nov 03, 2025			Nov 03 - Nov 04, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	63.1	57.3	08:40 PM - 08:45 PM	62.7	57.4	11:20 PM - 11:25 PM	57.1	51.5
06:05 PM - 06:10 PM	60.7	55.3	08:45 PM - 08:50 PM	59.1	54.8	11:25 PM - 11:30 PM	58.0	50.6
06:10 PM - 06:15 PM	64.0	58.2	08:50 PM - 08:55 PM	59.9	56.5	11:30 PM - 11:35 PM	55.7	53.1
06:15 PM - 06:20 PM	82.5	56.8	08:55 PM - 09:00 PM	61.3	57.5	11:35 PM - 11:40 PM	54.0	50.4
06:20 PM - 06:25 PM	65.0	59.2	09:00 PM - 09:05 PM	61.4	55.8	11:40 PM - 11:45 PM	53.9	50.0
06:25 PM - 06:30 PM	62.2	56.5	09:05 PM - 09:10 PM	62.2	56.2	11:45 PM - 11:50 PM	56.3	48.9
06:30 PM - 06:35 PM	61.7	56.4	09:10 PM - 09:15 PM	59.3	53.1	11:50 PM - 11:55 PM	54.0	49.1
06:35 PM - 06:40 PM	61.0	56.9	09:15 PM - 09:20 PM	60.3	54.0	11:55 PM - 12:00 AM	54.9	48.2
06:40 PM - 06:45 PM	62.3	59.2	09:20 PM - 09:25 PM	60.8	56.5	12:00 AM - 12:05 AM	53.1	49.7
06:45 PM - 06:50 PM	61.0	57.6	09:25 PM - 09:30 PM	63.7	60.0	12:05 AM - 12:10 AM	52.7	48.7
06:50 PM - 06:55 PM	61.2	58.1	09:30 PM - 09:35 PM	61.9	60.6	12:10 AM - 12:15 AM	55.0	48.8
06:55 PM - 07:00 PM	60.9	58.3	09:35 PM - 09:40 PM	62.8	59.1	12:15 AM - 12:20 AM	60.1	48.8
07:00 PM - 07:05 PM	62.2	59.2	09:40 PM - 09:45 PM	63.8	61.4	12:20 AM - 12:25 AM	53.8	49.7
07:05 PM - 07:10 PM	60.9	56.5	09:45 PM - 09:50 PM	66.5	64.3	12:25 AM - 12:30 AM	49.5	46.8
07:10 PM - 07:15 PM	61.5	57.1	09:50 PM - 09:55 PM	63.6	60.8	12:30 AM - 12:35 AM	49.8	46.4
07:15 PM - 07:20 PM	62.7	58.2	09:55 PM - 10:00 PM	63.0	59.3	12:35 AM - 12:40 AM	59.6	46.0
07:20 PM - 07:25 PM	61.8	58.2	10:00 PM - 10:05 PM	62.4	60.4	12:40 AM - 12:45 AM	51.1	45.0
07:25 PM - 07:30 PM	61.0	55.5	10:05 PM - 10:10 PM	62.0	60.5	12:45 AM - 12:50 AM	57.3	46.0
07:30 PM - 07:35 PM	62.0	57.0	10:10 PM - 10:15 PM	62.5	60.1	12:50 AM - 12:55 AM	51.6	44.7
07:35 PM - 07:40 PM	61.6	57.8	10:15 PM - 10:20 PM	60.8	54.2	12:55 AM - 01:00 AM	48.5	44.6
07:40 PM - 07:45 PM	61.8	57.0	10:20 PM - 10:25 PM	61.6	59.7	01:00 AM - 01:05 AM	47.7	45.3
07:45 PM - 07:50 PM	62.4	56.1	10:25 PM - 10:30 PM	59.7	63.2	01:05 AM - 01:10 AM	59.6	46.2
07:50 PM - 07:55 PM	61.6	55.6	10:30 PM - 10:35 PM	59.3	53.6	01:10 AM - 01:15 AM	58.9	45.7
07:55 PM - 08:00 PM	62.6	56.6	10:35 PM - 10:40 PM	57.1	50.3	01:15 AM - 01:20 AM	57.1	45.7
08:00 PM - 08:05 PM	82.6	54.2	10:40 PM - 10:45 PM	56.5	51.1	01:20 AM - 01:25 AM	55.1	45.7
08:05 PM - 08:10 PM	68.9	57.0	10:45 PM - 10:50 PM	57.8	51.1	01:25 AM - 01:30 AM	54.6	45.0
08:10 PM - 08:15 PM	64.8	57.8	10:50 PM - 10:55 PM	55.6	49.8	01:30 AM - 01:35 AM	56.1	44.8
08:15 PM - 08:20 PM	62.4	57.2	10:55 PM - 11:00 PM	64.1	51.1	01:35 AM - 01:40 AM	58.3	45.8
08:20 PM - 08:25 PM	60.4	55.6	11:00 PM - 11:05 PM	55.6	49.4	01:40 AM - 01:45 AM	53.8	45.8
08:25 PM - 08:30 PM	62.1	57.9	11:05 PM - 11:10 PM	58.2	51.3	01:45 AM - 01:50 AM	54.6	47.3
08:30 PM - 08:35 PM	61.2	56.3	11:10 PM - 11:15 PM	55.4	49.9	01:50 AM - 01:55 AM	54.4	48.3
08:35 PM - 08:40 PM	61.5	56.6	11:15 PM - 11:20 PM	55.3	50.2	01:55 AM - 02:00 AM	50.9	46.4



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449638-1

Page 1 of 3

Sample Number : 2599776-5  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 04 - Nov 05, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Nov 04, 2025			Nov 04, 2025			Nov 04, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	62.1	44.9	12:40 PM - 12:45 PM	61.0	44.0	03:20 PM - 03:25 PM	56.8	39.9
10:05 AM - 10:10 AM	61.3	41.6	12:45 PM - 12:50 PM	58.9	43.1	03:25 PM - 03:30 PM	61.0	43.3
10:10 AM - 10:15 AM	52.6	40.9	12:50 PM - 12:55 PM	59.4	45.4	03:30 PM - 03:35 PM	58.3	40.2
10:15 AM - 10:20 AM	59.3	41.2	12:55 PM - 01:00 PM	55.6	41.4	03:35 PM - 03:40 PM	55.3	41.9
10:20 AM - 10:25 AM	54.7	38.4	01:00 PM - 01:05 PM	63.1	44.8	03:40 PM - 03:45 PM	59.0	46.9
10:25 AM - 10:30 AM	65.1	41.9	01:05 PM - 01:10 PM	53.5	44.4	03:45 PM - 03:50 PM	59.7	52.3
10:30 AM - 10:35 AM	56.5	44.6	01:10 PM - 01:15 PM	55.1	45.8	03:50 PM - 03:55 PM	61.9	56.7
10:35 AM - 10:40 AM	55.7	41.6	01:15 PM - 01:20 PM	62.2	46.8	03:55 PM - 04:00 PM	60.4	53.8
10:40 AM - 10:45 AM	59.1	43.0	01:20 PM - 01:25 PM	59.0	49.5	04:00 PM - 04:05 PM	57.0	44.2
10:45 AM - 10:50 AM	56.9	42.5	01:25 PM - 01:30 PM	60.0	46.8	04:05 PM - 04:10 PM	55.4	44.0
10:50 AM - 10:55 AM	56.2	44.4	01:30 PM - 01:35 PM	62.9	50.1	04:10 PM - 04:15 PM	60.4	45.3
10:55 AM - 11:00 AM	58.3	42.3	01:35 PM - 01:40 PM	56.4	44.2	04:15 PM - 04:20 PM	56.2	47.5
11:00 AM - 11:05 AM	51.2	40.5	01:40 PM - 01:45 PM	51.5	42.1	04:20 PM - 04:25 PM	56.0	48.0
11:05 AM - 11:10 AM	56.2	41.6	01:45 PM - 01:50 PM	55.5	48.1	04:25 PM - 04:30 PM	60.0	42.5
11:10 AM - 11:15 AM	56.6	43.4	01:50 PM - 01:55 PM	59.2	42.2	04:30 PM - 04:35 PM	58.7	43.2
11:15 AM - 11:20 AM	56.2	40.0	01:55 PM - 02:00 PM	61.5	42.3	04:35 PM - 04:40 PM	60.3	43.6
11:20 AM - 11:25 AM	57.3	41.9	02:00 PM - 02:05 PM	55.4	38.9	04:40 PM - 04:45 PM	62.3	47.1
11:25 AM - 11:30 AM	56.1	43.3	02:05 PM - 02:10 PM	54.0	41.7	04:45 PM - 04:50 PM	60.3	45.7
11:30 AM - 11:35 AM	56.7	41.8	02:10 PM - 02:15 PM	55.0	39.5	04:50 PM - 04:55 PM	60.9	47.8
11:35 AM - 11:40 AM	56.9	47.1	02:15 PM - 02:20 PM	54.1	39.6	04:55 PM - 05:00 PM	58.7	43.0
11:40 AM - 11:45 AM	54.9	48.2	02:20 PM - 02:25 PM	58.0	40.5	05:00 PM - 05:05 PM	60.5	48.6
11:45 AM - 11:50 AM	64.6	47.4	02:25 PM - 02:30 PM	62.6	38.6	05:05 PM - 05:10 PM	47.9	45.1
11:50 AM - 11:55 AM	55.6	46.9	02:30 PM - 02:35 PM	55.0	40.6	05:10 PM - 05:15 PM	61.9	52.4
11:55 AM - 12:00 PM	57.0	47.4	02:35 PM - 02:40 PM	53.3	40.5	05:15 PM - 05:20 PM	60.5	47.3
12:00 PM - 12:05 PM	58.5	47.6	02:40 PM - 02:45 PM	55.7	39.8	05:20 PM - 05:25 PM	59.4	47.0
12:05 PM - 12:10 PM	57.2	46.1	02:45 PM - 02:50 PM	59.1	40.2	05:25 PM - 05:30 PM	59.9	46.8
12:10 PM - 12:15 PM	55.8	43.1	02:50 PM - 02:55 PM	60.3	39.7	05:30 PM - 05:35 PM	62.6	47.6
12:15 PM - 12:20 PM	56.6	40.5	02:55 PM - 03:00 PM	61.1	43.5	05:35 PM - 05:40 PM	63.8	49.3
12:20 PM - 12:25 PM	55.8	40.8	03:00 PM - 03:05 PM	55.5	43.1	05:40 PM - 05:45 PM	62.2	47.9
12:25 PM - 12:30 PM	51.0	41.7	03:05 PM - 03:10 PM	56.5	40.9	05:45 PM - 05:50 PM	59.8	49.7
12:30 PM - 12:35 PM	55.4	41.2	03:10 PM - 03:15 PM	58.0	40.0	05:50 PM - 05:55 PM	63.0	48.0
12:35 PM - 12:40 PM	55.1	41.0	03:15 PM - 03:20 PM	68.9	39.9	05:55 PM - 06:00 PM	60.1	48.4

Approved by

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Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449638-1

Page 2 of 3

Sample Number : 2599776-5  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 04 - Nov 05, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Nov 04, 2025			Nov 04, 2025			Nov 04 - Nov 05, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	61.5	49.0	08:40 PM - 08:45 PM	57.1	46.3	11:20 PM - 11:25 PM	62.0	44.4
06:05 PM - 06:10 PM	59.6	49.8	08:45 PM - 08:50 PM	56.6	45.1	11:25 PM - 11:30 PM	59.8	44.5
06:10 PM - 06:15 PM	61.9	50.3	08:50 PM - 08:55 PM	58.7	45.9	11:30 PM - 11:35 PM	51.9	44.6
06:15 PM - 06:20 PM	60.9	50.4	08:55 PM - 09:00 PM	55.0	44.0	11:35 PM - 11:40 PM	60.5	45.0
06:20 PM - 06:25 PM	59.5	52.1	09:00 PM - 09:05 PM	57.0	47.8	11:40 PM - 11:45 PM	47.6	44.8
06:25 PM - 06:30 PM	59.5	51.7	09:05 PM - 09:10 PM	58.5	47.2	11:45 PM - 11:50 PM	52.5	44.6
06:30 PM - 06:35 PM	59.2	51.5	09:10 PM - 09:15 PM	59.0	50.8	11:50 PM - 11:55 PM	51.9	44.3
06:35 PM - 06:40 PM	57.5	51.5	09:15 PM - 09:20 PM	55.5	46.4	11:55 PM - 12:00 AM	54.9	44.2
06:40 PM - 06:45 PM	60.8	51.8	09:20 PM - 09:25 PM	58.3	48.0	12:00 AM - 12:05 AM	53.9	43.8
06:45 PM - 06:50 PM	60.4	54.0	09:25 PM - 09:30 PM	55.8	46.9	12:05 AM - 12:10 AM	57.0	44.2
06:50 PM - 06:55 PM	60.5	51.2	09:30 PM - 09:35 PM	56.1	48.1	12:10 AM - 12:15 AM	66.8	44.9
06:55 PM - 07:00 PM	58.3	51.4	09:35 PM - 09:40 PM	55.4	47.2	12:15 AM - 12:20 AM	52.5	44.0
07:00 PM - 07:05 PM	57.7	51.6	09:40 PM - 09:45 PM	57.7	47.3	12:20 AM - 12:25 AM	51.3	43.8
07:05 PM - 07:10 PM	60.3	52.0	09:45 PM - 09:50 PM	58.3	46.0	12:25 AM - 12:30 AM	54.5	43.5
07:10 PM - 07:15 PM	56.8	50.3	09:50 PM - 09:55 PM	55.2	46.1	12:30 AM - 12:35 AM	53.5	43.4
07:15 PM - 07:20 PM	58.7	51.8	09:55 PM - 10:00 PM	54.1	46.1	12:35 AM - 12:40 AM	61.2	43.8
07:20 PM - 07:25 PM	60.8	51.5	10:00 PM - 10:05 PM	52.7	45.6	12:40 AM - 12:45 AM	54.2	43.5
07:25 PM - 07:30 PM	61.7	51.6	10:05 PM - 10:10 PM	52.6	44.8	12:45 AM - 12:50 AM	46.2	43.0
07:30 PM - 07:35 PM	61.8	52.0	10:10 PM - 10:15 PM	60.6	45.6	12:50 AM - 12:55 AM	61.0	43.2
07:35 PM - 07:40 PM	61.9	52.0	10:15 PM - 10:20 PM	55.7	45.0	12:55 AM - 01:00 AM	57.6	41.8
07:40 PM - 07:45 PM	66.6	50.6	10:20 PM - 10:25 PM	53.8	44.8	01:00 AM - 01:05 AM	50.8	41.4
07:45 PM - 07:50 PM	64.8	51.7	10:25 PM - 10:30 PM	49.7	38.4	01:05 AM - 01:10 AM	49.0	41.4
07:50 PM - 07:55 PM	60.7	48.5	10:30 PM - 10:35 PM	54.3	44.8	01:10 AM - 01:15 AM	60.6	41.0
07:55 PM - 08:00 PM	64.4	50.5	10:35 PM - 10:40 PM	49.8	46.0	01:15 AM - 01:20 AM	57.1	41.6
08:00 PM - 08:05 PM	66.7	51.9	10:40 PM - 10:45 PM	57.5	46.2	01:20 AM - 01:25 AM	50.5	40.7
08:05 PM - 08:10 PM	68.7	50.1	10:45 PM - 10:50 PM	63.7	44.9	01:25 AM - 01:30 AM	46.8	40.1
08:10 PM - 08:15 PM	63.9	51.1	10:50 PM - 10:55 PM	50.7	44.8	01:30 AM - 01:35 AM	53.6	40.9
08:15 PM - 08:20 PM	58.7	46.8	10:55 PM - 11:00 PM	50.4	43.7	01:35 AM - 01:40 AM	46.7	40.5
08:20 PM - 08:25 PM	61.7	46.9	11:00 PM - 11:05 PM	52.0	43.6	01:40 AM - 01:45 AM	51.6	40.7
08:25 PM - 08:30 PM	62.3	47.7	11:05 PM - 11:10 PM	51.1	43.5	01:45 AM - 01:50 AM	52.8	40.3
08:30 PM - 08:35 PM	64.3	48.9	11:10 PM - 11:15 PM	54.3	43.5	01:50 AM - 01:55 AM	47.2	40.7
08:35 PM - 08:40 PM	58.4	45.9	11:15 PM - 11:20 PM	51.8	43.5	01:55 AM - 02:00 AM	50.5	41.0

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449638-1

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Sample Number : 2599776-5  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ปลูกป่าอนุรักษ์ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 04 - Nov 05, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Nov 05, 2025			Nov 05, 2025			Nov 05, 2025		
	Leq	L90		Leq	L90		Leq	L90
	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
02:00 AM - 02:05 AM	45.7	40.8	04:40 AM - 04:45 AM	55.9	43.0	07:20 AM - 07:25 AM	63.2	52.9
02:05 AM - 02:10 AM	46.8	40.7	04:45 AM - 04:50 AM	50.4	42.8	07:25 AM - 07:30 AM	63.4	51.5
02:10 AM - 02:15 AM	37.5	40.6	04:50 AM - 04:55 AM	50.2	43.3	07:30 AM - 07:35 AM	61.2	50.7
02:15 AM - 02:20 AM	42.8	40.7	04:55 AM - 05:00 AM	49.8	42.5	07:35 AM - 07:40 AM	63.4	53.2
02:20 AM - 02:25 AM	42.8	40.8	05:00 AM - 05:05 AM	46.3	42.3	07:40 AM - 07:45 AM	69.8	56.5
02:25 AM - 02:30 AM	45.8	41.1	05:05 AM - 05:10 AM	49.5	43.3	07:45 AM - 07:50 AM	64.2	51.8
02:30 AM - 02:35 AM	46.8	41.1	05:10 AM - 05:15 AM	49.8	44.2	07:50 AM - 07:55 AM	63.5	48.4
02:35 AM - 02:40 AM	43.1	41.0	05:15 AM - 05:20 AM	49.0	44.4	07:55 AM - 08:00 AM	60.8	49.7
02:40 AM - 02:45 AM	45.7	41.4	05:20 AM - 05:25 AM	50.0	44.6	08:00 AM - 08:05 AM	58.8	43.7
02:45 AM - 02:50 AM	46.7	40.8	05:25 AM - 05:30 AM	55.0	43.8	08:05 AM - 08:10 AM	60.5	49.2
02:50 AM - 02:55 AM	47.9	40.6	05:30 AM - 05:35 AM	56.5	44.7	08:10 AM - 08:15 AM	61.5	47.9
02:55 AM - 03:00 AM	62.7	41.2	05:35 AM - 05:40 AM	52.2	45.5	08:15 AM - 08:20 AM	55.3	42.9
03:00 AM - 03:05 AM	49.2	40.5	05:40 AM - 05:45 AM	57.2	47.2	08:20 AM - 08:25 AM	61.8	44.5
03:05 AM - 03:10 AM	42.0	40.4	05:45 AM - 05:50 AM	53.6	46.1	08:25 AM - 08:30 AM	61.8	44.9
03:10 AM - 03:15 AM	56.6	40.5	05:50 AM - 05:55 AM	52.3	46.1	08:30 AM - 08:35 AM	55.9	41.4
03:15 AM - 03:20 AM	45.6	40.6	05:55 AM - 06:00 AM	54.7	46.3	08:35 AM - 08:40 AM	57.4	43.2
03:20 AM - 03:25 AM	56.8	41.0	06:00 AM - 06:05 AM	60.7	45.0	08:40 AM - 08:45 AM	58.9	42.8
03:25 AM - 03:30 AM	41.6	40.6	06:05 AM - 06:10 AM	63.8	46.2	08:45 AM - 08:50 AM	58.7	44.2
03:30 AM - 03:35 AM	49.1	40.2	06:10 AM - 06:15 AM	62.2	46.4	08:50 AM - 08:55 AM	53.6	42.8
03:35 AM - 03:40 AM	49.3	40.3	06:15 AM - 06:20 AM	59.7	45.4	08:55 AM - 09:00 AM	58.0	45.3
03:40 AM - 03:45 AM	43.2	40.5	06:20 AM - 06:25 AM	59.6	45.0	09:00 AM - 09:05 AM	59.4	45.0
03:45 AM - 03:50 AM	42.5	40.7	06:25 AM - 06:30 AM	56.1	44.2	09:05 AM - 09:10 AM	62.3	47.1
03:50 AM - 03:55 AM	51.4	40.5	06:30 AM - 06:35 AM	64.4	46.8	09:10 AM - 09:15 AM	59.6	44.3
03:55 AM - 04:00 AM	47.0	40.6	06:35 AM - 06:40 AM	64.3	47.0	09:15 AM - 09:20 AM	62.0	47.1
04:00 AM - 04:05 AM	49.2	41.1	06:40 AM - 06:45 AM	60.1	46.9	09:20 AM - 09:25 AM	61.4	43.6
04:05 AM - 04:10 AM	55.6	41.0	06:45 AM - 06:50 AM	60.7	46.2	09:25 AM - 09:30 AM	59.0	41.5
04:10 AM - 04:15 AM	52.3	41.4	06:50 AM - 06:55 AM	62.4	47.4	09:30 AM - 09:35 AM	51.4	44.0
04:15 AM - 04:20 AM	48.4	41.2	06:55 AM - 07:00 AM	61.2	47.8	09:35 AM - 09:40 AM	57.0	41.5
04:20 AM - 04:25 AM	54.3	41.5	07:00 AM - 07:05 AM	62.7	51.6	09:40 AM - 09:45 AM	52.7	41.1
04:25 AM - 04:30 AM	50.7	41.9	07:05 AM - 07:10 AM	62.8	52.0	09:45 AM - 09:50 AM	55.2	43.9
04:30 AM - 04:35 AM	47.2	41.8	07:10 AM - 07:15 AM	62.0	52.7	09:50 AM - 09:55 AM	66.6	48.6
04:35 AM - 04:40 AM	53.0	42.7	07:15 AM - 07:20 AM	61.9	50.0	09:55 AM - 10:00 AM	53.9	42.4



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449639-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-6  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 05 - Nov 06, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

Page 1 of 3

Nov 05, 2025			Nov 05, 2025			Nov 05 - Nov 06, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	56.2	45.0	08:40 PM - 08:45 PM	56.4	46.0	11:20 PM - 11:25 PM	53.1	41.8
06:05 PM - 06:10 PM	72.0	53.6	08:45 PM - 08:50 PM	59.6	45.0	11:25 PM - 11:30 PM	54.0	41.1
06:10 PM - 06:15 PM	60.0	48.6	08:50 PM - 08:55 PM	63.7	45.2	11:30 PM - 11:35 PM	54.4	42.5
06:15 PM - 06:20 PM	83.0	49.7	08:55 PM - 09:00 PM	59.0	44.4	11:35 PM - 11:40 PM	55.7	42.5
06:20 PM - 06:25 PM	56.9	48.1	09:00 PM - 09:05 PM	57.3	43.3	11:40 PM - 11:45 PM	55.3	42.3
06:25 PM - 06:30 PM	60.9	48.9	09:05 PM - 09:10 PM	57.8	43.6	11:45 PM - 11:50 PM	51.8	41.9
06:30 PM - 06:35 PM	50.4	48.3	09:10 PM - 09:15 PM	56.7	47.8	11:50 PM - 11:55 PM	48.7	42.0
06:35 PM - 06:40 PM	62.7	50.6	09:15 PM - 09:20 PM	62.5	49.1	11:55 PM - 12:00 AM	53.2	41.9
06:40 PM - 06:45 PM	61.7	50.9	09:20 PM - 09:25 PM	55.8	48.2	12:00 AM - 12:05 AM	52.9	41.8
06:45 PM - 06:50 PM	66.8	50.1	09:25 PM - 09:30 PM	56.9	48.2	12:05 AM - 12:10 AM	51.3	42.1
06:50 PM - 06:55 PM	59.0	49.6	09:30 PM - 09:35 PM	60.1	50.1	12:10 AM - 12:15 AM	53.9	41.5
06:55 PM - 07:00 PM	61.3	49.6	09:35 PM - 09:40 PM	60.8	49.0	12:15 AM - 12:20 AM	55.8	41.7
07:00 PM - 07:05 PM	59.9	48.7	09:40 PM - 09:45 PM	57.9	48.9	12:20 AM - 12:25 AM	54.7	41.5
07:05 PM - 07:10 PM	60.3	49.7	09:45 PM - 09:50 PM	57.4	52.4	12:25 AM - 12:30 AM	56.1	40.9
07:10 PM - 07:15 PM	57.7	50.6	09:50 PM - 09:55 PM	58.5	50.7	12:30 AM - 12:35 AM	54.4	40.7
07:15 PM - 07:20 PM	60.6	50.2	09:55 PM - 10:00 PM	55.4	49.9	12:35 AM - 12:40 AM	61.0	41.1
07:20 PM - 07:25 PM	58.4	50.4	10:00 PM - 10:05 PM	56.6	46.2	12:40 AM - 12:45 AM	56.3	40.9
07:25 PM - 07:30 PM	62.0	50.2	10:05 PM - 10:10 PM	59.7	43.7	12:45 AM - 12:50 AM	52.3	40.2
07:30 PM - 07:35 PM	61.5	50.2	10:10 PM - 10:15 PM	56.4	44.0	12:50 AM - 12:55 AM	62.1	40.9
07:35 PM - 07:40 PM	59.7	49.8	10:15 PM - 10:20 PM	54.5	43.0	12:55 AM - 01:00 AM	55.7	40.6
07:40 PM - 07:45 PM	64.5	52.1	10:20 PM - 10:25 PM	55.1	43.2	01:00 AM - 01:05 AM	60.4	40.9
07:45 PM - 07:50 PM	68.7	53.4	10:25 PM - 10:30 PM	66.1	47.7	01:05 AM - 01:10 AM	47.1	40.7
07:50 PM - 07:55 PM	60.8	49.8	10:30 PM - 10:35 PM	58.2	42.6	01:10 AM - 01:15 AM	68.0	40.7
07:55 PM - 08:00 PM	61.5	49.5	10:35 PM - 10:40 PM	51.9	42.5	01:15 AM - 01:20 AM	58.1	40.7
08:00 PM - 08:05 PM	61.6	49.5	10:40 PM - 10:45 PM	51.7	43.6	01:20 AM - 01:25 AM	57.1	40.9
08:05 PM - 08:10 PM	63.0	50.4	10:45 PM - 10:50 PM	51.7	43.2	01:25 AM - 01:30 AM	60.2	41.5
08:10 PM - 08:15 PM	60.9	47.6	10:50 PM - 10:55 PM	53.0	42.5	01:30 AM - 01:35 AM	63.2	41.6
08:15 PM - 08:20 PM	57.1	47.4	10:55 PM - 11:00 PM	50.5	42.4	01:35 AM - 01:40 AM	51.5	41.0
08:20 PM - 08:25 PM	64.0	45.6	11:00 PM - 11:05 PM	58.8	42.7	01:40 AM - 01:45 AM	53.0	40.8
08:25 PM - 08:30 PM	59.4	46.9	11:05 PM - 11:10 PM	55.5	42.5	01:45 AM - 01:50 AM	49.5	40.6
08:30 PM - 08:35 PM	55.8	45.2	11:10 PM - 11:15 PM	53.2	42.1	01:50 AM - 01:55 AM	54.1	40.2
08:35 PM - 08:40 PM	56.6	46.6	11:15 PM - 11:20 PM	53.9	42.0	01:55 AM - 02:00 AM	47.2	39.9

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

Approved by

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449639-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-6  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 05 - Nov 06, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

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Nov 06, 2025			Nov 06, 2025			Nov 06, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	52.8	40.2	04:40 AM - 04:45 AM	44.7	43.1	07:20 AM - 07:25 AM	62.3	53.0
02:05 AM - 02:10 AM	52.0	40.1	04:45 AM - 04:50 AM	44.3	43.1	07:25 AM - 07:30 AM	61.4	51.0
02:10 AM - 02:15 AM	40.1	39.3	04:50 AM - 04:55 AM	49.3	43.1	07:30 AM - 07:35 AM	63.1	54.1
02:15 AM - 02:20 AM	40.1	39.3	04:55 AM - 05:00 AM	43.9	42.9	07:35 AM - 07:40 AM	66.1	54.5
02:20 AM - 02:25 AM	51.5	39.8	05:00 AM - 05:05 AM	44.4	42.9	07:40 AM - 07:45 AM	67.5	55.0
02:25 AM - 02:30 AM	55.3	40.2	05:05 AM - 05:10 AM	52.6	43.4	07:45 AM - 07:50 AM	65.5	57.1
02:30 AM - 02:35 AM	45.3	39.4	05:10 AM - 05:15 AM	54.4	42.7	07:50 AM - 07:55 AM	64.4	53.9
02:35 AM - 02:40 AM	53.4	38.8	05:15 AM - 05:20 AM	54.6	42.1	07:55 AM - 08:00 AM	63.6	51.2
02:40 AM - 02:45 AM	49.4	38.9	05:20 AM - 05:25 AM	42.9	41.9	08:00 AM - 08:05 AM	62.7	47.8
02:45 AM - 02:50 AM	52.9	39.8	05:25 AM - 05:30 AM	49.1	42.1	08:05 AM - 08:10 AM	61.5	46.7
02:50 AM - 02:55 AM	40.6	39.4	05:30 AM - 05:35 AM	49.5	42.4	08:10 AM - 08:15 AM	60.2	45.6
02:55 AM - 03:00 AM	40.3	39.2	05:35 AM - 05:40 AM	55.1	42.1	08:15 AM - 08:20 AM	55.8	44.9
03:00 AM - 03:05 AM	15.9	39.1	05:40 AM - 05:45 AM	53.9	43.6	08:20 AM - 08:25 AM	62.6	46.0
03:05 AM - 03:10 AM	39.8	39.0	05:45 AM - 05:50 AM	51.9	43.7	08:25 AM - 08:30 AM	60.0	45.7
03:10 AM - 03:15 AM	55.3	39.1	05:50 AM - 05:55 AM	55.7	43.8	08:30 AM - 08:35 AM	58.0	43.9
03:15 AM - 03:20 AM	45.8	39.1	05:55 AM - 06:00 AM	54.3	44.4	08:35 AM - 08:40 AM	61.0	47.3
03:20 AM - 03:25 AM	42.4	39.8	06:00 AM - 06:05 AM	56.4	44.0	08:40 AM - 08:45 AM	60.2	47.4
03:25 AM - 03:30 AM	41.4	39.9	06:05 AM - 06:10 AM	57.5	45.7	08:45 AM - 08:50 AM	62.5	43.9
03:30 AM - 03:35 AM	51.1	40.0	06:10 AM - 06:15 AM	60.3	45.2	08:50 AM - 08:55 AM	55.7	44.1
03:35 AM - 03:40 AM	47.0	41.8	06:15 AM - 06:20 AM	58.5	44.5	08:55 AM - 09:00 AM	57.3	46.4
03:40 AM - 03:45 AM	61.4	42.8	06:20 AM - 06:25 AM	58.3	45.0	09:00 AM - 09:05 AM	62.3	45.9
03:45 AM - 03:50 AM	66.4	43.4	06:25 AM - 06:30 AM	64.6	46.0	09:05 AM - 09:10 AM	61.9	45.1
03:50 AM - 03:55 AM	56.7	43.3	06:30 AM - 06:35 AM	60.6	46.2	09:10 AM - 09:15 AM	60.0	45.0
03:55 AM - 04:00 AM	53.4	43.0	06:35 AM - 06:40 AM	59.8	46.2	09:15 AM - 09:20 AM	56.4	46.4
04:00 AM - 04:05 AM	42.9	40.4	06:40 AM - 06:45 AM	60.5	49.4	09:20 AM - 09:25 AM	57.9	51.1
04:05 AM - 04:10 AM	45.2	40.1	06:45 AM - 06:50 AM	60.7	48.6	09:25 AM - 09:30 AM	58.0	50.8
04:10 AM - 04:15 AM	42.0	39.9	06:50 AM - 06:55 AM	62.6	50.6	09:30 AM - 09:35 AM	58.4	45.8
04:15 AM - 04:20 AM	45.4	41.7	06:55 AM - 07:00 AM	62.6	52.1	09:35 AM - 09:40 AM	54.6	43.9
04:20 AM - 04:25 AM	47.5	41.8	07:00 AM - 07:05 AM	65.3	44.5	09:40 AM - 09:45 AM	56.2	45.0
04:25 AM - 04:30 AM	46.3	42.1	07:05 AM - 07:10 AM	67.0	52.6	09:45 AM - 09:50 AM	60.9	45.9
04:30 AM - 04:35 AM	43.1	42.0	07:10 AM - 07:15 AM	63.4	51.6	09:50 AM - 09:55 AM	56.5	45.4
04:35 AM - 04:40 AM	52.8	42.2	07:15 AM - 07:20 AM	62.5	52.4	09:55 AM - 10:00 AM	56.5	47.0

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Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received: Nov 10, 2025  
Date Reported: Nov 14, 2025  
Report Number: 3449640-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-7  
Parameter : Noise Level (Leq 5 min)  
Location : N1 : พื้นที่ใกล้เคียงพื้นที่ทดสอบ (GPS 47P 0744:60, 1420358)  
Measurement Date : Nov 06 - Nov 07, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296516

Page 1 of 3

Nov 06, 2025			Nov 06, 2025			Nov 06, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	59.4	45.2	12:40 PM - 12:45 PM	66.5	43.8	03:20 PM - 03:25 PM	58.7	46.0
10:05 AM - 10:10 AM	57.6	43.3	12:45 PM - 12:50 PM	62.6	46.3	03:25 PM - 03:30 PM	59.5	46.0
10:10 AM - 10:15 AM	59.2	42.5	12:50 PM - 12:55 PM	59.8	42.7	03:30 PM - 03:35 PM	58.9	43.5
10:15 AM - 10:20 AM	57.2	51.8	12:55 PM - 01:00 PM	60.0	41.8	03:35 PM - 03:40 PM	60.1	42.9
10:20 AM - 10:25 AM	57.2	52.2	01:00 PM - 01:05 PM	53.8	43.5	03:40 PM - 03:45 PM	57.6	45.2
10:25 AM - 10:30 AM	55.7	45.2	01:05 PM - 01:10 PM	54.5	42.0	03:45 PM - 03:50 PM	55.4	44.6
10:30 AM - 10:35 AM	55.5	45.3	01:10 PM - 01:15 PM	59.7	49.9	03:50 PM - 03:55 PM	56.0	46.1
10:35 AM - 10:40 AM	63.6	45.0	01:15 PM - 01:20 PM	58.1	52.6	03:55 PM - 04:00 PM	61.4	45.5
10:40 AM - 10:45 AM	57.8	42.9	01:20 PM - 01:25 PM	57.6	52.8	04:00 PM - 04:05 PM	60.9	47.1
10:45 AM - 10:50 AM	54.3	41.3	01:25 PM - 01:30 PM	60.5	51.7	04:05 PM - 04:10 PM	62.0	52.6
10:50 AM - 10:55 AM	56.8	43.5	01:30 PM - 01:35 PM	58.7	53.3	04:10 PM - 04:15 PM	59.6	50.0
10:55 AM - 11:00 AM	56.3	47.1	01:35 PM - 01:40 PM	60.0	44.5	04:15 PM - 04:20 PM	61.5	48.1
11:00 AM - 11:05 AM	61.8	46.1	01:40 PM - 01:45 PM	60.1	39.9	04:20 PM - 04:25 PM	59.5	45.0
11:05 AM - 11:10 AM	55.6	44.4	01:45 PM - 01:50 PM	55.9	41.2	04:25 PM - 04:30 PM	58.7	46.4
11:10 AM - 11:15 AM	53.7	44.2	01:50 PM - 01:55 PM	57.4	50.3	04:30 PM - 04:35 PM	54.6	44.8
11:15 AM - 11:20 AM	58.2	45.5	01:55 PM - 02:00 PM	63.3	47.7	04:35 PM - 04:40 PM	62.0	49.3
11:20 AM - 11:25 AM	58.6	43.5	02:00 PM - 02:05 PM	60.6	41.7	04:40 PM - 04:45 PM	63.6	50.1
11:25 AM - 11:30 AM	59.0	42.2	02:05 PM - 02:10 PM	57.9	40.3	04:45 PM - 04:50 PM	60.7	48.0
11:30 AM - 11:35 AM	56.8	49.6	02:10 PM - 02:15 PM	58.1	43.1	04:50 PM - 04:55 PM	62.6	49.1
11:35 AM - 11:40 AM	57.0	44.6	02:15 PM - 02:20 PM	58.9	42.8	04:55 PM - 05:00 PM	63.2	52.6
11:40 AM - 11:45 AM	55.5	42.8	02:20 PM - 02:25 PM	54.3	41.3	05:00 PM - 05:05 PM	64.5	49.5
11:45 AM - 11:50 AM	61.4	51.1	02:25 PM - 02:30 PM	54.5	43.1	05:05 PM - 05:10 PM	62.9	56.4
11:50 AM - 11:55 AM	55.2	47.1	02:30 PM - 02:35 PM	59.7	44.6	05:10 PM - 05:15 PM	63.9	53.6
11:55 AM - 12:00 PM	58.5	44.6	02:35 PM - 02:40 PM	62.9	44.1	05:15 PM - 05:20 PM	63.5	49.3
12:00 PM - 12:05 PM	61.1	50.0	02:40 PM - 02:45 PM	55.5	43.0	05:20 PM - 05:25 PM	61.3	50.5
12:05 PM - 12:10 PM	60.3	43.4	02:45 PM - 02:50 PM	58.3	46.6	05:25 PM - 05:30 PM	59.5	45.5
12:10 PM - 12:15 PM	60.1	45.1	02:50 PM - 02:55 PM	56.9	44.1	05:30 PM - 05:35 PM	62.4	49.3
12:15 PM - 12:20 PM	57.0	42.2	02:55 PM - 03:00 PM	56.1	47.2	05:35 PM - 05:40 PM	62.5	49.4
12:20 PM - 12:25 PM	62.5	48.1	03:00 PM - 03:05 PM	66.7	52.4	05:40 PM - 05:45 PM	58.7	46.1
12:25 PM - 12:30 PM	55.8	49.1	03:05 PM - 03:10 PM	60.9	48.7	05:45 PM - 05:50 PM	61.7	46.8
12:30 PM - 12:35 PM	58.1	49.8	03:10 PM - 03:15 PM	62.6	44.9	05:50 PM - 05:55 PM	61.9	47.3
12:35 PM - 12:40 PM	56.8	42.8	03:15 PM - 03:20 PM	60.1	49.0	05:55 PM - 06:00 PM	59.1	48.3



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449641-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-7  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่เกษตรกรรม (พื้นที่เกษตรกรรม) (GPS 47P 0744650, 1420350)  
Measurement Date : Nov 06 - Nov 07, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296516

Page 2 of 3

Nov 07, 2025		Nov 07, 2025		Nov 07, 2025	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
02:00 AM - 02:05 AM	43.6	04:40 AM - 04:45 AM	45.1	07:20 AM - 07:25 AM	63.0
02:05 AM - 02:10 AM	42.0	04:45 AM - 04:50 AM	43.7	07:25 AM - 07:30 AM	60.7
02:10 AM - 02:15 AM	42.7	04:50 AM - 04:55 AM	43.7	07:30 AM - 07:35 AM	61.7
02:15 AM - 02:20 AM	45.4	04:55 AM - 05:00 AM	48.0	07:35 AM - 07:40 AM	67.8
02:20 AM - 02:25 AM	49.9	05:00 AM - 05:05 AM	46.9	07:40 AM - 07:45 AM	67.8
02:25 AM - 02:30 AM	43.9	05:05 AM - 05:10 AM	52.5	07:45 AM - 07:50 AM	64.9
02:30 AM - 02:35 AM	47.2	05:10 AM - 05:15 AM	47.4	07:50 AM - 07:55 AM	63.3
02:35 AM - 02:40 AM	43.0	05:15 AM - 05:20 AM	48.6	07:55 AM - 08:00 AM	63.1
02:40 AM - 02:45 AM	50.8	05:20 AM - 05:25 AM	50.6	08:00 AM - 08:05 AM	61.2
02:45 AM - 02:50 AM	51.1	05:25 AM - 05:30 AM	48.5	08:05 AM - 08:10 AM	64.6
02:50 AM - 02:55 AM	44.7	05:30 AM - 05:35 AM	45.1	08:10 AM - 08:15 AM	66.4
02:55 AM - 03:00 AM	54.8	05:35 AM - 05:40 AM	54.1	08:15 AM - 08:20 AM	56.4
03:00 AM - 03:05 AM	47.3	05:40 AM - 05:45 AM	50.9	08:20 AM - 08:25 AM	58.5
03:05 AM - 03:10 AM	55.1	05:45 AM - 05:50 AM	54.9	08:25 AM - 08:30 AM	59.5
03:10 AM - 03:15 AM	55.5	05:50 AM - 05:55 AM	53.7	08:30 AM - 08:35 AM	55.9
03:15 AM - 03:20 AM	48.6	05:55 AM - 06:00 AM	54.6	08:35 AM - 08:40 AM	50.5
03:20 AM - 03:25 AM	42.2	06:00 AM - 06:05 AM	67.0	08:40 AM - 08:45 AM	56.9
03:25 AM - 03:30 AM	42.3	06:05 AM - 06:10 AM	66.9	08:45 AM - 08:50 AM	55.4
03:30 AM - 03:35 AM	47.7	06:10 AM - 06:15 AM	58.9	08:50 AM - 08:55 AM	61.9
03:35 AM - 03:40 AM	49.7	06:15 AM - 06:20 AM	61.4	08:55 AM - 09:00 AM	54.8
03:40 AM - 03:45 AM	46.5	06:20 AM - 06:25 AM	56.7	09:00 AM - 09:05 AM	58.4
03:45 AM - 03:50 AM	50.6	06:25 AM - 06:30 AM	57.7	09:05 AM - 09:10 AM	60.6
03:50 AM - 03:55 AM	43.0	06:30 AM - 06:35 AM	55.7	09:10 AM - 09:15 AM	63.2
03:55 AM - 04:00 AM	44.5	06:35 AM - 06:40 AM	59.6	09:15 AM - 09:20 AM	59.9
04:00 AM - 04:05 AM	46.0	06:40 AM - 06:45 AM	62.4	09:20 AM - 09:25 AM	58.7
04:05 AM - 04:10 AM	49.1	06:45 AM - 06:50 AM	64.4	09:25 AM - 09:30 AM	58.4
04:10 AM - 04:15 AM	42.8	06:50 AM - 06:55 AM	61.1	09:30 AM - 09:35 AM	61.3
04:15 AM - 04:20 AM	42.9	06:55 AM - 07:00 AM	61.3	09:35 AM - 09:40 AM	56.6
04:20 AM - 04:25 AM	49.4	07:00 AM - 07:05 AM	61.4	09:40 AM - 09:45 AM	54.7
04:25 AM - 04:30 AM	43.1	07:05 AM - 07:10 AM	64.5	09:45 AM - 09:50 AM	62.0
04:30 AM - 04:35 AM	48.0	07:10 AM - 07:15 AM	63.0	09:50 AM - 09:55 AM	55.1
04:35 AM - 04:40 AM	48.0	07:15 AM - 07:20 AM	63.0	09:55 AM - 10:00 AM	59.3

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449641-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-8  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่เกษตรกรรม (พื้นที่เกษตรกรรม) (GPS 47P 0744656, 1419366)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Page 1 of 3

Oct 31, 2025		Oct 31, 2025		Oct 31, 2025	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
10:00 AM - 10:05 AM	60.1	12:40 PM - 12:45 PM	61.2	03:20 PM - 03:25 PM	58.6
10:05 AM - 10:10 AM	59.1	12:45 PM - 12:50 PM	60.5	03:25 PM - 03:30 PM	58.7
10:10 AM - 10:15 AM	59.4	12:50 PM - 12:55 PM	61.5	03:30 PM - 03:35 PM	59.5
10:15 AM - 10:20 AM	57.4	12:55 PM - 01:00 PM	60.8	03:35 PM - 03:40 PM	58.8
10:20 AM - 10:25 AM	57.3	01:00 PM - 01:05 PM	60.6	03:40 PM - 03:45 PM	59.6
10:25 AM - 10:30 AM	57.4	01:05 PM - 01:10 PM	59.9	03:45 PM - 03:50 PM	60.0
10:30 AM - 10:35 AM	57.5	01:10 PM - 01:15 PM	59.5	03:50 PM - 03:55 PM	61.7
10:35 AM - 10:40 AM	57.6	01:15 PM - 01:20 PM	59.4	03:55 PM - 04:00 PM	60.8
10:40 AM - 10:45 AM	57.5	01:20 PM - 01:25 PM	60.1	04:00 PM - 04:05 PM	59.1
10:45 AM - 10:50 AM	59.3	01:25 PM - 01:30 PM	60.3	04:05 PM - 04:10 PM	58.9
10:50 AM - 10:55 AM	57.5	01:30 PM - 01:35 PM	59.2	04:10 PM - 04:15 PM	59.0
10:55 AM - 11:00 AM	57.5	01:35 PM - 01:40 PM	59.4	04:15 PM - 04:20 PM	59.0
11:00 AM - 11:05 AM	57.8	01:40 PM - 01:45 PM	59.2	04:20 PM - 04:25 PM	58.6
11:05 AM - 11:10 AM	60.6	01:45 PM - 01:50 PM	59.3	04:25 PM - 04:30 PM	58.6
11:10 AM - 11:15 AM	58.0	01:50 PM - 01:55 PM	59.6	04:30 PM - 04:35 PM	59.6
11:15 AM - 11:20 AM	58.0	01:55 PM - 02:00 PM	59.4	04:35 PM - 04:40 PM	59.6
11:20 AM - 11:25 AM	58.2	02:00 PM - 02:05 PM	59.4	04:40 PM - 04:45 PM	58.9
11:25 AM - 11:30 AM	58.6	02:05 PM - 02:10 PM	59.2	04:45 PM - 04:50 PM	62.1
11:30 AM - 11:35 AM	58.4	02:10 PM - 02:15 PM	59.3	04:50 PM - 04:55 PM	58.7
11:35 AM - 11:40 AM	58.3	02:15 PM - 02:20 PM	59.1	04:55 PM - 05:00 PM	59.1
11:40 AM - 11:45 AM	58.5	02:20 PM - 02:25 PM	59.5	05:00 PM - 05:05 PM	62.0
11:45 AM - 11:50 AM	68.1	02:25 PM - 02:30 PM	60.6	05:05 PM - 05:10 PM	61.9
11:50 AM - 11:55 AM	58.3	02:30 PM - 02:35 PM	59.2	05:10 PM - 05:15 PM	59.3
11:55 AM - 12:00 PM	58.3	02:35 PM - 02:40 PM	58.7	05:15 PM - 05:20 PM	59.2
12:00 PM - 12:05 PM	59.6	02:40 PM - 02:45 PM	59.1	05:20 PM - 05:25 PM	58.9
12:05 PM - 12:10 PM	59.4	02:45 PM - 02:50 PM	59.0	05:25 PM - 05:30 PM	58.9
12:10 PM - 12:15 PM	59.4	02:50 PM - 02:55 PM	58.9	05:30 PM - 05:35 PM	59.1
12:15 PM - 12:20 PM	59.7	02:55 PM - 03:00 PM	59.6	05:35 PM - 05:40 PM	59.1
12:20 PM - 12:25 PM	60.0	03:00 PM - 03:05 PM	59.5	05:40 PM - 05:45 PM	59.0
12:25 PM - 12:30 PM	60.1	03:05 PM - 03:10 PM	58.7	05:45 PM - 05:50 PM	58.9
12:30 PM - 12:35 PM	60.0	03:10 PM - 03:15 PM	59.0	05:50 PM - 05:55 PM	59.2
12:35 PM - 12:40 PM	60.4	03:15 PM - 03:20 PM	58.4	05:55 PM - 06:00 PM	59.0

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449641-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-8  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่เกษตรกรรม (พื้นที่เกษตรกรรม) (GPS 47P 0744656, 1419366)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Page 2 of 3

Oct 31, 2025		Oct 31, 2025		Oct 31, 2025	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
06:00 PM - 06:05 PM	59.0	08:40 PM - 08:45 PM	58.8	11:20 PM - 11:25 PM	58.5
06:05 PM - 06:10 PM	58.8	08:45 PM - 08:50 PM	58.8	11:25 PM - 11:30 PM	58.6
06:10 PM - 06:15 PM	59.0	08:50 PM - 08:55 PM	58.9	11:30 PM - 11:35 PM	59.1
06:15 PM - 06:20 PM	58.9	08:55 PM - 09:00 PM	58.9	11:35 PM - 11:40 PM	58.5
06:20 PM - 06:25 PM	58.8	09:00 PM - 09:05 PM	59.5	11:40 PM - 11:45 PM	60.0
06:25 PM - 06:30 PM	58.5	09:05 PM - 09:10 PM	58.9	11:45 PM - 11:50 PM	61.8
06:30 PM - 06:35 PM	58.6	09:10 PM - 09:15 PM	58.5	11:50 PM - 11:55 PM	61.1
06:35 PM - 06:40 PM	58.6	09:15 PM - 09:20 PM	58.3	11:55 PM - 12:00 AM	62.0
06:40 PM - 06:45 PM	58.7	09:20 PM - 09:25 PM	58.2	12:00 AM - 12:05 AM	61.1
06:45 PM - 06:50 PM	59.2	09:25 PM - 09:30 PM	58.1	12:05 AM - 12:10 AM	60.6
06:50 PM - 06:55 PM	58.7	09:30 PM - 09:35 PM	58.5	12:10 AM - 12:15 AM	62.2
06:55 PM - 07:00 PM	58.8	09:35 PM - 09:40 PM	58.2	12:15 AM - 12:20 AM	61.9
07:00 PM - 07:05 PM	58.9	09:40 PM - 09:45 PM	58.5	12:20 AM - 12:25 AM	59.8
07:05 PM - 07:10 PM	58.9	09:45 PM - 09:50 PM	58.4	12:25 AM - 12:30 AM	59.3
07:10 PM - 07:15 PM	59.8	09:50 PM - 09:55 PM	58.4	12:30 AM - 12:35 AM	59.1
07:15 PM - 07:20 PM	59.4	09:55 PM - 10:00 PM	58.8	12:35 AM - 12:40 AM	58.9
07:20 PM - 07:25 PM	60.8	10:00 PM - 10:05 PM	58.6	12:40 AM - 12:45 AM	59.0
07:25 PM - 07:30 PM	60.8	10:05 PM - 10:10 PM	58.4	12:45 AM - 12:50 AM	62.1
07:30 PM - 07:35 PM	59.3	10:10 PM - 10:15 PM	58.3	12:50 AM - 12:55 AM	59.1
07:35 PM - 07:40 PM	60.8	10:15 PM - 10:20 PM	58.3	12:55 AM - 01:00 AM	58.6
07:40 PM - 07:45 PM	59.9	10:20 PM - 10:25 PM	58.6	01:00 AM - 01:05 AM	58.7
07:45 PM - 07:50 PM	60.0	10:25 PM - 10:30 PM	58.6	01:05 AM - 01:10 AM	58.8
07:50 PM - 07:55 PM	59.0	10:30 PM - 10:35 PM	59.1	01:10 AM - 01:15 AM	59.0
07:55 PM - 08:00 PM	61.5	10:35 PM - 10:40 PM	58.8	01:15 AM - 01:20 AM	59.1
08:00 PM - 08:05 PM	58.9	10:40 PM - 10:45 PM	58.6	01:20 AM - 01:25 AM	58.6
08:05 PM - 08:10 PM	58.9	10:45 PM - 10:50 PM	58.5	01:25 AM - 01:30 AM	59.5
08:10 PM - 08:15 PM	59.5	10:50 PM - 10:55 PM	58.6	01:30 AM - 01:35 AM	59.2
08:15 PM - 08:20 PM	60.2	10:55 PM - 11:00 PM	58.7	01:35 AM - 01:40 AM	59.2
08:20 PM - 08:25 PM	59.3	11:00 PM - 11:05 PM	58.7	01:40 AM - 01:45 AM	59.1
08:25 PM - 08:30 PM	58.7	11:05 PM - 11:10 PM	58.7	01:45 AM - 01:50 AM	59.0
08:30 PM - 08:35 PM	58.7	11:10 PM - 11:15 PM	58.6	01:50 AM - 01:55 AM	59.3
08:35 PM - 08:40 PM	58.8	11:15 PM - 11:20 PM	58.7	01:55 AM - 02:00 AM	59.8

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449641-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-8  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่เกษตรกรรม (พื้นที่เกษตรกรรม) (GPS 47P 0744656, 1419366)  
Measurement Date : Oct 31 - Nov 01, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Page 3 of 3

Nov 01, 2025		L90		Nov 01, 2025		L90		Nov 01, 2025		L90	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
02:00 AM - 02:05 AM	59.6	04:40 AM - 04:45 AM	58.5	07:20 AM - 07:25 AM	60.9	09:59.3					
02:05 AM - 02:10 AM	59.2	04:45 AM - 04:50 AM	58.5	07:25 AM - 07:30 AM	60.5	09:59.4					
02:10 AM - 02:15 AM	59.6	04:50 AM - 04:55 AM	58.5	07:30 AM - 07:35 AM	60.6	09.4					
02:15 AM - 02:20 AM	59.1	04:55 AM - 05:00 AM	58.8	07:35 AM - 07:40 AM	61.3	59.4					
02:20 AM - 02:25 AM	58.9	05:00 AM - 05:05 AM	59.5	07:40 AM - 07:45 AM	60.5	59.0					
02:25 AM - 02:30 AM	59.1	05:05 AM - 05:10 AM	59.7	07:45 AM - 07:50 AM	59.9	58.4					
02:30 AM - 02:35 AM	59.7	05:10 AM - 05:15 AM	59.1	07:50 AM - 07:55 AM	63.7	58.6					
02:35 AM - 02:40 AM	59.2	05:15 AM - 05:20 AM	59.4	07:55 AM - 08:00 AM	59.9	58.8					
02:40 AM - 02:45 AM	59.2	05:20 AM - 05:25 AM	58.7	08:00 AM - 08:05 AM	59.4	58.6					
02:45 AM - 02:50 AM	59.2	05:25 AM - 05:30 AM	59.9	08:05 AM - 08:10 AM	59.4	58.7					
02:50 AM - 02:55 AM	59.0	05:30 AM - 05:35 AM	59.1	08:10 AM - 08:15 AM	59.5	58.6					
02:55 AM - 03:00 AM	59.1	05:35 AM - 05:40 AM	58.9	08:15 AM - 08:20 AM	59.5	58.7					
03:00 AM - 03:05 AM	59.2	05:40 AM - 05:45 AM	59.1	08:20 AM - 08:25 AM	59.5	58.9					
03:05 AM - 03:10 AM	59.2	05:45 AM - 05:50 AM	58.9	08:25 AM - 08:30 AM	60.8	58.9					
03:10 AM - 03:15 AM	59.2	05:50 AM - 05:55 AM	58.9	08:30 AM - 08:35 AM	59.5	58.7					
03:15 AM - 03:20 AM	59.1	05:55 AM - 06:00 AM	58.9	08:35 AM - 08:40 AM	58.8	58.2					
03:20 AM - 03:25 AM	59.2	06:00 AM - 06:05 AM	59.1	08:40 AM - 08:45 AM	59.1	58.4					
03:25 AM - 03:30 AM	59.2	06:05 AM - 06:10 AM	59.1	08:45 AM - 08:50 AM	59.3	58.7					
03:30 AM - 03:35 AM	59.4	06:10 AM - 06:15 AM	59.4	08:50 AM - 08:55 AM	60.7	58.8					
03:35 AM - 03:40 AM	59.4	06:15 AM - 06:20 AM	59.5	08:55 AM - 09:00 AM	59.4	58.6					
03:40 AM - 03:45 AM	59.4	06:20 AM - 06:25 AM	60.2	09:00 AM - 09:05 AM	59.1	58.6					
03:45 AM - 03:50 AM	59.4	06:25 AM - 06:30 AM	59.8	09:05 AM - 09:10 AM	58.6	58.5					
03:50 AM - 03:55 AM	58.9	06:30 AM - 06:35 AM	60.1	09:10 AM - 09:15 AM	59.2	58.6					
03:55 AM - 04:00 AM	59.0	06:35 AM - 06:40 AM	59.9	09:15 AM - 09:20 AM	59.1	58.6					
03:59 AM - 04:00 AM	58.4	06:40 AM - 06:45 AM	59.9	09:20 AM - 09:25 AM	59.1	58.6					
04:05 AM - 04:10 AM	59.2	06:45 AM - 06:50 AM	59.4	09:25 AM - 09:30 AM	59.6	58.6					
04:10 AM - 04:15 AM	59.2	06:50 AM - 06:55 AM	60.1	09:30 AM - 09:35 AM	58.6	58.1					
04:15 AM - 04:20 AM	59.2	06:55 AM - 07:00 AM	61.4	09:35 AM - 09:40 AM	58.8	58.2					
04:20 AM - 04:25 AM	59.2	07:00 AM - 07:05 AM	64.4	09:40 AM - 09:45 AM	58.5	58.1					
04:25 AM - 04:30 AM	59.2	07:05 AM - 07:10 AM	60.3	09:45 AM - 09:50 AM	58.8	58.2					
04:30 AM - 04:35 AM	59.1	07:10 AM - 07:15 AM	60.2	09:50 AM - 09:55 AM	58.5	57.9					
04:35 AM - 04:40 AM	58.9	07:15 AM - 07:20 AM	61.9	09:55 AM - 10:00 AM	58.8	58.1					



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449642-1

Page 1 of 3

Sample Number : 2599776-9  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 01 - Nov 02, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 01, 2025	Leq	L90	Nov 01, 2025	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
10:00 AM - 10:05 AM	58.5	57.9	12:40 PM - 12:45 PM	59.1	58.1
10:05 AM - 10:10 AM	59.1	57.9	12:45 PM - 12:50 PM	62.0	60.9
10:10 AM - 10:15 AM	58.4	57.9	12:50 PM - 12:55 PM	61.6	61.0
10:15 AM - 10:20 AM	58.5	57.9	12:55 PM - 01:00 PM	61.9	61.4
10:20 AM - 10:25 AM	58.6	57.9	01:00 PM - 01:05 PM	60.9	60.2
10:25 AM - 10:30 AM	58.4	57.9	01:05 PM - 01:10 PM	60.9	59.8
10:30 AM - 10:35 AM	58.7	58.1	01:10 PM - 01:15 PM	61.3	60.4
10:35 AM - 10:40 AM	58.9	58.1	01:15 PM - 01:20 PM	61.4	60.7
10:40 AM - 10:45 AM	58.6	58.1	01:20 PM - 01:25 PM	61.5	60.9
10:45 AM - 10:50 AM	58.6	58.1	01:25 PM - 01:30 PM	59.4	58.2
10:50 AM - 10:55 AM	58.4	57.9	01:30 PM - 01:35 PM	58.3	57.4
10:55 AM - 11:00 AM	58.1	57.4	01:35 PM - 01:40 PM	57.9	57.2
11:00 AM - 11:05 AM	58.0	57.1	01:40 PM - 01:45 PM	58.2	57.2
11:05 AM - 11:10 AM	58.3	57.7	01:45 PM - 01:50 PM	59.3	57.7
11:10 AM - 11:15 AM	58.4	57.6	01:50 PM - 01:55 PM	58.0	57.5
11:15 AM - 11:20 AM	58.4	57.9	01:55 PM - 02:00 PM	57.6	57.1
11:20 AM - 11:25 AM	58.3	57.8	02:00 PM - 02:05 PM	57.8	57.2
11:25 AM - 11:30 AM	58.7	58.0	02:05 PM - 02:10 PM	57.6	57.1
11:30 AM - 11:35 AM	58.9	58.2	02:10 PM - 02:15 PM	57.8	57.4
11:35 AM - 11:40 AM	58.7	58.2	02:15 PM - 02:20 PM	57.7	57.3
11:40 AM - 11:45 AM	58.9	58.2	02:20 PM - 02:25 PM	58.2	57.6
11:45 AM - 11:50 AM	58.4	57.6	02:25 PM - 02:30 PM	58.8	57.4
11:50 AM - 11:55 AM	58.0	58.2	02:30 PM - 02:35 PM	58.8	57.5
11:55 AM - 12:00 PM	58.9	58.2	02:35 PM - 02:40 PM	59.0	57.5
12:00 PM - 12:05 PM	58.8	58.2	02:40 PM - 02:45 PM	59.6	57.4
12:05 PM - 12:10 PM	58.7	58.0	02:45 PM - 02:50 PM	59.4	57.4
12:10 PM - 12:15 PM	58.5	58.0	02:50 PM - 02:55 PM	58.4	57.3
12:15 PM - 12:20 PM	58.4	57.9	02:55 PM - 03:00 PM	57.9	57.4
12:20 PM - 12:25 PM	58.4	57.9	03:00 PM - 03:05 PM	57.6	57.1
12:25 PM - 12:30 PM	58.4	57.6	03:05 PM - 03:10 PM	57.6	57.1
12:30 PM - 12:35 PM	58.3	57.6	03:10 PM - 03:15 PM	57.3	56.8
12:35 PM - 12:40 PM	59.1	57.8	03:15 PM - 03:20 PM	57.4	56.9

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449642-1

Page 2 of 3

Sample Number : 2599776-9  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 01 - Nov 02, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 01, 2025	Leq	L90	Nov 01, 2025	Leq	L90	Nov 01 - Nov 02, 2025	Leq	L90
Time	dB(A)	dB(A)	Time	dB(A)	dB(A)	Time	dB(A)	dB(A)
06:00 PM - 06:05 PM	58.5	58.0	08:40 PM - 08:45 PM	59.2	58.6	11:20 PM - 11:25 PM	56.7	56.2
06:05 PM - 06:10 PM	58.6	58.1	08:45 PM - 08:50 PM	59.0	58.5	11:25 PM - 11:30 PM	57.1	56.6
06:10 PM - 06:15 PM	58.5	58.1	08:50 PM - 08:55 PM	58.9	58.4	11:30 PM - 11:35 PM	57.2	56.7
06:15 PM - 06:20 PM	58.5	58.0	08:55 PM - 09:00 PM	58.9	58.5	11:35 PM - 11:40 PM	57.2	56.8
06:20 PM - 06:25 PM	58.5	58.1	09:00 PM - 09:05 PM	59.1	58.6	11:40 PM - 11:45 PM	57.3	56.8
06:25 PM - 06:30 PM	58.6	58.1	09:05 PM - 09:10 PM	59.0	58.6	11:45 PM - 11:50 PM	57.2	56.7
06:30 PM - 06:35 PM	58.5	58.0	09:10 PM - 09:15 PM	58.9	58.5	11:50 PM - 11:55 PM	56.8	56.3
06:35 PM - 06:40 PM	58.7	58.2	09:15 PM - 09:20 PM	58.9	58.5	11:55 PM - 12:00 AM	56.6	56.2
06:40 PM - 06:45 PM	58.9	58.4	09:20 PM - 09:25 PM	59.0	58.6	12:00 AM - 12:05 AM	56.8	56.1
06:45 PM - 06:50 PM	58.8	58.4	09:25 PM - 09:30 PM	59.0	58.6	12:05 AM - 12:10 AM	56.5	56.1
06:50 PM - 06:55 PM	59.6	58.5	09:30 PM - 09:35 PM	59.8	58.8	12:10 AM - 12:15 AM	56.9	56.4
06:55 PM - 07:00 PM	59.1	58.3	09:35 PM - 09:40 PM	59.7	59.2	12:15 AM - 12:20 AM	56.7	56.3
07:00 PM - 07:05 PM	59.1	58.5	09:40 PM - 09:45 PM	59.5	59.0	12:20 AM - 12:25 AM	56.5	56.2
07:05 PM - 07:10 PM	58.8	58.4	09:45 PM - 09:50 PM	59.3	58.8	12:25 AM - 12:30 AM	56.9	56.4
07:10 PM - 07:15 PM	59.2	58.5	09:50 PM - 09:55 PM	59.2	58.8	12:30 AM - 12:35 AM	59.7	56.4
07:15 PM - 07:20 PM	59.0	58.5	09:55 PM - 10:00 PM	60.2	59.7	12:35 AM - 12:40 AM	59.5	56.5
07:20 PM - 07:25 PM	58.9	58.5	10:00 PM - 10:05 PM	64.1	60.7	12:40 AM - 12:45 AM	57.0	56.6
07:25 PM - 07:30 PM	59.1	58.4	10:05 PM - 10:10 PM	63.3	57.6	12:45 AM - 12:50 AM	57.5	57.1
07:30 PM - 07:35 PM	59.1	58.4	10:10 PM - 10:15 PM	60.7	57.3	12:50 AM - 12:55 AM	57.8	57.4
07:35 PM - 07:40 PM	59.2	58.4	10:15 PM - 10:20 PM	58.0	57.4	12:55 AM - 01:00 AM	57.4	56.9
07:40 PM - 07:45 PM	59.0	58.4	10:20 PM - 10:25 PM	57.9	57.4	01:00 AM - 01:05 AM	57.7	57.3
07:45 PM - 07:50 PM	59.1	58.6	10:25 PM - 10:30 PM	57.7	57.3	01:05 AM - 01:10 AM	57.7	57.3
07:50 PM - 07:55 PM	59.1	58.4	10:30 PM - 10:35 PM	57.5	57.0	01:10 AM - 01:15 AM	57.5	57.1
07:55 PM - 08:00 PM	59.2	58.7	10:35 PM - 10:40 PM	57.4	56.9	01:15 AM - 01:20 AM	57.6	57.2
08:00 PM - 08:05 PM	59.2	58.8	10:40 PM - 10:45 PM	57.4	56.8	01:20 AM - 01:25 AM	57.7	57.3
08:05 PM - 08:10 PM	59.1	58.6	10:45 PM - 10:50 PM	58.7	56.4	01:25 AM - 01:30 AM	57.7	57.2
08:10 PM - 08:15 PM	59.2	58.8	10:50 PM - 10:55 PM	57.1	56.6	01:30 AM - 01:35 AM	57.4	57.0
08:15 PM - 08:20 PM	59.4	58.9	10:55 PM - 11:00 PM	57.2	56.7	01:35 AM - 01:40 AM	57.2	56.8
08:20 PM - 08:25 PM	59.5	59.0	11:00 PM - 11:05 PM	57.0	56.6	01:40 AM - 01:45 AM	57.4	56.9
08:25 PM - 08:30 PM	59.5	59.1	11:05 PM - 11:10 PM	56.5	56.1	01:45 AM - 01:50 AM	57.9	57.5
08:30 PM - 08:35 PM	59.4	59.0	11:10 PM - 11:15 PM	56.5	56.0	01:50 AM - 01:55 AM	57.4	57.1
08:35 PM - 08:40 PM	59.3	58.9	11:15 PM - 11:20 PM	56.3	55.9	01:55 AM - 02:00 AM	57.8	57.3

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449642-1

Page 3 of 3

Sample Number : 2599776-9  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 01 - Nov 02, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 02, 2025	Leq	L90	Nov 02, 2025	Leq	L90	Nov 02, 2025	Leq	L90
	dB(A)	dB(A)		dB(A)	dB(A)		dB(A)	dB(A)
02:00 AM - 02:05 AM	58.1	57.7	04:40 AM - 04:45 AM	57.9	57.4	07:20 AM - 07:25 AM	59.8	56.7
02:05 AM - 02:10 AM	58.0	57.6	04:45 AM - 04:50 AM	57.8	57.4	07:25 AM - 07:30 AM	57.3	56.5
02:10 AM - 02:15 AM	57.8	57.4	04:50 AM - 04:55 AM	57.4	56.9	07:30 AM - 07:35 AM	57.2	56.4
02:15 AM - 02:20 AM	57.7	57.3	04:55 AM - 05:00 AM	57.5	57.0	07:35 AM - 07:40 AM	57.5	56.5
02:20 AM - 02:25 AM	57.5	57.0	05:00 AM - 05:05 AM	57.9	57.0	07:40 AM - 07:45 AM	57.4	56.4
02:25 AM - 02:30 AM	57.3	57.0	05:05 AM - 05:10 AM	57.3	56.9	07:45 AM - 07:50 AM	58.0	56.5
02:30 AM - 02:35 AM	57.5	57.1	05:10 AM - 05:15 AM	57.6	57.1	07:50 AM - 07:55 AM	56.9	56.4
02:35 AM - 02:40 AM	57.6	57.2	05:15 AM - 05:20 AM	57.5	57.0	07:55 AM - 08:00 AM	56.9	56.5
02:40 AM - 02:45 AM	57.8	57.4	05:20 AM - 05:25 AM	57.3	56.9	08:00 AM - 08:05 AM	56.9	56.4
02:45 AM - 02:50 AM	58.2	57.7	05:25 AM - 05:30 AM	57.3	56.9	08:05 AM - 08:10 AM	57.2	56.5
02:50 AM - 02:55 AM	58.5	58.0	05:30 AM - 05:35 AM	57.3	56.9	08:10 AM - 08:15 AM	56.7	56.2
02:55 AM - 03:00 AM	58.5	58.0	05:35 AM - 05:40 AM	57.3	56.9	08:15 AM - 08:20 AM	56.9	56.4
03:00 AM - 03:05 AM	58.3	57.8	05:40 AM - 05:45 AM	57.4	57.0	08:20 AM - 08:25 AM	56.6	56.1
03:05 AM - 03:10 AM	57.9	57.4	05:45 AM - 05:50 AM	57.2	56.8	08:25 AM - 08:30 AM	56.5	56.0
03:10 AM - 03:15 AM	58.1	57.7	05:50 AM - 05:55 AM	56.9	56.5	08:30 AM - 08:35 AM	56.8	56.1
03:15 AM - 03:20 AM	58.3	57.8	05:55 AM - 06:00 AM	56.9	56.4	08:35 AM - 08:40 AM	56.7	56.2
03:20 AM - 03:25 AM	57.9	57.4	06:00 AM - 06:05 AM	56.8	56.4	08:40 AM - 08:45 AM	56.8	56.4
03:25 AM - 03:30 AM	57.6	57.2	06:05 AM - 06:10 AM	56.9	56.4	08:45 AM - 08:50 AM	56.6	56.1
03:30 AM - 03:35 AM	57.9	57.5	06:10 AM - 06:15 AM	56.8	56.2	08:50 AM - 08:55 AM	56.3	55.9
03:35 AM - 03:40 AM	57.7	57.2	06:15 AM - 06:20 AM	57.2	56.7	08:55 AM - 09:00 AM	56.4	55.9
03:40 AM - 03:45 AM	57.3	56.8	06:20 AM - 06:25 AM	57.0	56.5	09:00 AM - 09:05 AM	56.0	55.5
03:45 AM - 03:50 AM	57.1	56.9	06:25 AM - 06:30 AM	56.8	56.4	09:05 AM - 09:10 AM	56.0	55.5
03:50 AM - 03:55 AM	57.3	56.9	06:30 AM - 06:35 AM	57.0	56.5	09:10 AM - 09:15 AM	56.0	55.4
03:55 AM - 04:00 AM	57.3	56.8	06:35 AM - 06:40 AM	57.4	56.8	09:15 AM - 09:20 AM	55.4	54.9
04:00 AM - 04:05 AM	57.3	57.0	06:40 AM - 06:45 AM	57.1	56.6	09:20 AM - 09:25 AM	55.0	54.5
04:05 AM - 04:10 AM	57.5	57.1	06:45 AM - 06:50 AM	57.8	57.1	09:25 AM - 09:30 AM	55.2	54.7
04:10 AM - 04:15 AM	57.5	57.1	06:50 AM - 06:55 AM	58.5	57.1	09:30 AM - 09:35 AM	55.1	54.3
04:15 AM - 04:20 AM	57.6	57.1	06:55 AM - 07:00 AM	64.4	56.9	09:35 AM - 09:40 AM	55.3	54.7
04:20 AM - 04:25 AM	57.7	57.2	07:00 AM - 07:05 AM	56.9	56.4	09:40 AM - 09:45 AM	56.1	55.4
04:25 AM - 04:30 AM	57.5	57.2	07:05 AM - 07:10 AM	56.7	56.2	09:45 AM - 09:50 AM	56.0	55.5
04:30 AM - 04:35 AM	57.9	57.4	07:10 AM - 07:15 AM	59.1	56.3	09:50 AM - 09:55 AM	56.5	56.0
04:35 AM - 04:40 AM	57.8	57.3	07:15 AM - 07:20 AM	57.1	56.3	09:55 AM - 10:00 AM	57.0	55.4



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449643-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-10  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณศูนย์โครงการท่าอากาศยาน) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 02 - Nov 03, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296515

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Nov 02, 2025			Nov 02, 2025			Nov 02 - Nov 03, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	60.9	60.5	08:40 PM - 08:45 PM	59.5	59.1	11:20 PM - 11:25 PM	59.8	59.4
06:05 PM - 06:10 PM	60.9	60.5	08:45 PM - 08:50 PM	59.4	59.0	11:25 PM - 11:30 PM	59.9	59.5
06:10 PM - 06:15 PM	62.4	59.1	08:50 PM - 08:55 PM	59.4	58.9	11:30 PM - 11:35 PM	59.8	59.4
06:15 PM - 06:20 PM	59.1	58.4	08:55 PM - 09:00 PM	59.5	59.1	11:35 PM - 11:40 PM	59.4	58.4
06:20 PM - 06:25 PM	59.0	58.2	09:00 PM - 09:05 PM	59.1	58.6	11:40 PM - 11:45 PM	59.3	58.9
06:25 PM - 06:30 PM	58.6	58.1	09:05 PM - 09:10 PM	59.1	58.7	11:45 PM - 11:50 PM	59.6	59.2
06:30 PM - 06:35 PM	58.4	57.9	09:10 PM - 09:15 PM	59.2	58.8	11:50 PM - 11:55 PM	59.6	59.2
06:35 PM - 06:40 PM	58.3	57.8	09:15 PM - 09:20 PM	60.6	59.8	11:55 PM - 12:00 AM	59.6	59.2
06:40 PM - 06:45 PM	58.5	58.1	09:20 PM - 09:25 PM	60.8	60.4	12:00 AM - 12:05 AM	59.5	59.1
06:45 PM - 06:50 PM	58.6	58.1	09:25 PM - 09:30 PM	60.5	59.9	12:05 AM - 12:10 AM	59.5	59.1
06:50 PM - 06:55 PM	59.6	58.2	09:30 PM - 09:35 PM	59.3	58.9	12:10 AM - 12:15 AM	59.4	59.0
06:55 PM - 07:00 PM	59.2	58.7	09:35 PM - 09:40 PM	59.4	59.1	12:15 AM - 12:20 AM	59.5	59.1
07:00 PM - 07:05 PM	59.0	58.5	09:40 PM - 09:45 PM	59.6	59.2	12:20 AM - 12:25 AM	59.5	59.1
07:05 PM - 07:10 PM	58.8	58.4	09:45 PM - 09:50 PM	59.4	59.1	12:25 AM - 12:30 AM	59.4	59.1
07:10 PM - 07:15 PM	58.9	58.5	09:50 PM - 09:55 PM	59.6	59.1	12:30 AM - 12:35 AM	59.5	59.1
07:15 PM - 07:20 PM	58.9	58.4	09:55 PM - 10:00 PM	59.7	59.3	12:35 AM - 12:40 AM	59.6	59.2
07:20 PM - 07:25 PM	59.0	58.6	10:00 PM - 10:05 PM	59.8	59.4	12:40 AM - 12:45 AM	59.6	59.2
07:25 PM - 07:30 PM	59.2	58.8	10:05 PM - 10:10 PM	59.7	59.2	12:45 AM - 12:50 AM	59.6	59.2
07:30 PM - 07:35 PM	59.4	58.6	10:10 PM - 10:15 PM	59.7	59.4	12:50 AM - 12:55 AM	59.6	59.2
07:35 PM - 07:40 PM	58.9	58.4	10:15 PM - 10:20 PM	59.8	59.4	12:55 AM - 01:00 AM	59.5	59.2
07:40 PM - 07:45 PM	58.9	58.5	10:20 PM - 10:25 PM	59.8	59.4	01:00 AM - 01:05 AM	59.4	59.0
07:45 PM - 07:50 PM	60.6	60.4	10:25 PM - 10:30 PM	60.4	60.4	01:05 AM - 01:10 AM	60.7	60.6
07:50 PM - 07:55 PM	59.0	58.6	10:30 PM - 10:35 PM	59.7	59.3	01:10 AM - 01:15 AM	59.1	58.8
07:55 PM - 08:00 PM	59.5	58.8	10:35 PM - 10:40 PM	59.5	59.2	01:15 AM - 01:20 AM	59.1	58.8
08:00 PM - 08:05 PM	59.1	58.6	10:40 PM - 10:45 PM	59.7	59.4	01:20 AM - 01:25 AM	59.3	58.9
08:05 PM - 08:10 PM	59.5	58.7	10:45 PM - 10:50 PM	59.9	59.5	01:25 AM - 01:30 AM	59.3	58.9
08:10 PM - 08:15 PM	59.2	58.8	10:50 PM - 10:55 PM	60.3	59.7	01:30 AM - 01:35 AM	59.1	58.7
08:15 PM - 08:20 PM	59.3	58.9	10:55 PM - 11:00 PM	60.0	59.6	01:35 AM - 01:40 AM	59.1	58.7
08:20 PM - 08:25 PM	59.5	59.0	11:00 PM - 11:05 PM	59.9	59.5	01:40 AM - 01:45 AM	59.1	58.7
08:25 PM - 08:30 PM	59.6	59.1	11:05 PM - 11:10 PM	60.0	59.6	01:45 AM - 01:50 AM	59.2	58.8
08:30 PM - 08:35 PM	59.5	59.2	11:10 PM - 11:15 PM	59.9	59.5	01:50 AM - 01:55 AM	59.1	58.8
08:35 PM - 08:40 PM	59.4	59.0	11:15 PM - 11:20 PM	60.0	59.6	01:55 AM - 02:00 AM	59.2	58.8

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449643-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-10  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณศูนย์โครงการท่าอากาศยาน) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 02 - Nov 03, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296515

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Nov 03, 2025			Nov 03, 2025			Nov 03, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	59.5	59.0	04:40 AM - 04:45 AM	59.2	58.6	07:20 AM - 07:25 AM	64.3	59.5
02:05 AM - 02:10 AM	59.4	58.9	04:45 AM - 04:50 AM	59.4	58.9	07:25 AM - 07:30 AM	61.4	59.5
02:10 AM - 02:15 AM	59.5	59.1	04:50 AM - 04:55 AM	59.6	59.2	07:30 AM - 07:35 AM	62.2	59.6
02:15 AM - 02:20 AM	59.7	59.3	04:55 AM - 05:00 AM	59.7	59.3	07:35 AM - 07:40 AM	64.1	59.9
02:20 AM - 02:25 AM	59.6	59.1	05:00 AM - 05:05 AM	59.6	59.2	07:40 AM - 07:45 AM	63.3	59.7
02:25 AM - 02:30 AM	59.5	59.1	05:05 AM - 05:10 AM	59.5	59.0	07:45 AM - 07:50 AM	63.4	59.5
02:30 AM - 02:35 AM	59.8	59.3	05:10 AM - 05:15 AM	59.2	58.8	07:50 AM - 07:55 AM	62.9	59.3
02:35 AM - 02:40 AM	59.8	59.3	05:15 AM - 05:20 AM	59.3	58.9	07:55 AM - 08:00 AM	60.4	59.0
02:40 AM - 02:45 AM	59.9	59.4	05:20 AM - 05:25 AM	59.4	58.8	08:00 AM - 08:05 AM	60.0	59.0
02:45 AM - 02:50 AM	59.9	59.4	05:25 AM - 05:30 AM	59.0	58.6	08:05 AM - 08:10 AM	60.0	58.9
02:50 AM - 02:55 AM	60.0	59.4	05:30 AM - 05:35 AM	59.4	59.0	08:10 AM - 08:15 AM	61.3	59.1
02:55 AM - 03:00 AM	60.0	59.3	05:35 AM - 05:40 AM	59.0	58.7	08:15 AM - 08:20 AM	61.7	60.0
03:00 AM - 03:05 AM	59.4	59.1	05:40 AM - 05:45 AM	59.2	58.8	08:20 AM - 08:25 AM	59.7	58.8
03:05 AM - 03:10 AM	61.4	60.0	05:45 AM - 05:50 AM	59.0	58.6	08:25 AM - 08:30 AM	59.6	58.9
03:10 AM - 03:15 AM	60.7	61.9	05:50 AM - 05:55 AM	59.3	58.9	08:30 AM - 08:35 AM	60.3	59.0
03:15 AM - 03:20 AM	61.4	59.9	05:55 AM - 06:00 AM	59.3	58.8	08:35 AM - 08:40 AM	60.5	59.0
03:20 AM - 03:25 AM	59.5	58.9	06:00 AM - 06:05 AM	59.6	59.2	08:40 AM - 08:45 AM	59.3	58.7
03:25 AM - 03:30 AM	59.1	58.6	06:05 AM - 06:10 AM	59.8	59.3	08:45 AM - 08:50 AM	59.3	58.8
03:30 AM - 03:35 AM	59.1	58.5	06:10 AM - 06:15 AM	60.0	59.5	08:50 AM - 08:55 AM	59.2	58.3
03:35 AM - 03:40 AM	59.3	58.5	06:15 AM - 06:20 AM	59.9	59.4	08:55 AM - 09:00 AM	59.1	58.5
03:40 AM - 03:45 AM	59.0	58.5	06:20 AM - 06:25 AM	59.7	59.2	09:00 AM - 09:05 AM	60.6	58.5
03:45 AM - 03:50 AM	60.7	60.7	06:25 AM - 06:30 AM	60.6	60.7	09:05 AM - 09:10 AM	61.7	60.6
03:50 AM - 03:55 AM	59.5	58.6	06:30 AM - 06:35 AM	60.0	59.3	09:10 AM - 09:15 AM	61.5	59.4
03:55 AM - 04:00 AM	59.1	58.7	06:35 AM - 06:40 AM	60.4	59.6	09:15 AM - 09:20 AM	59.5	58.2
04:00 AM - 04:05 AM	58.8	58.3	06:40 AM - 06:45 AM	60.6	59.7	09:20 AM - 09:25 AM	58.3	57.7
04:05 AM - 04:10 AM	59.1	58.6	06:45 AM - 06:50 AM	62.3	59.7	09:25 AM - 09:30 AM	58.7	58.2
04:10 AM - 04:15 AM	59.4	58.8	06:50 AM - 06:55 AM	61.3	59.7	09:30 AM - 09:35 AM	60.8	58.3
04:15 AM - 04:20 AM	59.1	58.6	06:55 AM - 07:00 AM	61.3	59.7	09:35 AM - 09:40 AM	59.1	58.3
04:20 AM - 04:25 AM	59.3	58.8	07:00 AM - 07:05 AM	62.0	59.9	09:40 AM - 09:45 AM	59.6	57.5
04:25 AM - 04:30 AM	59.0	58.6	07:05 AM - 07:10 AM	61.8	59.7	09:45 AM - 09:50 AM	59.0	58.2
04:30 AM - 04:35 AM	58.9	58.4	07:10 AM - 07:15 AM	64.1	59.9	09:50 AM - 09:55 AM	59.2	58.4
04:35 AM - 04:40 AM	58.9	58.5	07:15 AM - 07:20 AM	63.0	60.0	09:55 AM - 10:00 AM	66.2	58.2

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449644-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Sample Number : 2599776-11  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณศูนย์โครงการท่าอากาศยาน) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 03 - Nov 04, 2025  
Measurement by : Norranon Tattongkham  
Sound Level meter : Serial No. 00296515

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Nov 03, 2025			Nov 03, 2025			Nov 03, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	61.0	58.2	12:40 PM - 12:45 PM	59.6	58.2	03:20 PM - 03:25 PM	59.7	59.1
10:05 AM - 10:10 AM	63.9	59.9	12:45 PM - 12:50 PM	59.6	58.6	03:25 PM - 03:30 PM	59.5	58.9
10:10 AM - 10:15 AM	58.4	57.9	12:50 PM - 12:55 PM	59.4	58.5	03:30 PM - 03:35 PM	59.8	59.1
10:15 AM - 10:20 AM	59.2	58.0	12:55 PM - 01:00 PM	59.4	58.7	03:35 PM - 03:40 PM	59.7	59.1
10:20 AM - 10:25 AM	58.6	58.1	01:00 PM - 01:05 PM	60.5	58.7	03:40 PM - 03:45 PM	59.2	58.6
10:25 AM - 10:30 AM	58.3	57.7	01:05 PM - 01:10 PM	58.9	58.2	03:45 PM - 03:50 PM	59.1	58.6
10:30 AM - 10:35 AM	58.9	57.9	01:10 PM - 01:15 PM	58.9	58.2	03:50 PM - 03:55 PM	59.2	58.6
10:35 AM - 10:40 AM	58.6	58.0	01:15 PM - 01:20 PM	58.9	58.4	03:55 PM - 04:00 PM	60.0	59.3
10:40 AM - 10:45 AM	58.3	57.6	01:20 PM - 01:25 PM	59.1	58.4	04:00 PM - 04:05 PM	59.8	58.2
10:45 AM - 10:50 AM	60.9	59.1	01:25 PM - 01:30 PM	58.3	57.4	04:05 PM - 04:10 PM	59.8	58.3
10:50 AM - 10:55 AM	61.7	58.8	01:30 PM - 01:35 PM	58.5	58.0	04:10 PM - 04:15 PM	59.1	58.6
10:55 AM - 11:00 AM	67.4	57.9	01:35 PM - 01:40 PM	59.5	58.1	04:15 PM - 04:20 PM	58.8	58.0
11:00 AM - 11:05 AM	58.0	57.3	01:40 PM - 01:45 PM	60.3	58.4	04:20 PM - 04:25 PM	59.3	58.6
11:05 AM - 11:10 AM	58.3	57.5	01:45 PM - 01:50 PM	58.8	57.8	04:25 PM - 04:30 PM	58.9	58.2
11:10 AM - 11:15 AM	58.0	57.5	01:50 PM - 01:55 PM	58.9	58.1	04:30 PM - 04:35 PM	59.7	58.6
11:15 AM - 11:20 AM	58.8	57.8	01:55 PM - 02:00 PM	60.3	58.5	04:35 PM - 04:40 PM	59.9	59.0
11:20 AM - 11:25 AM	58.3	57.3	02:00 PM - 02:05 PM	58.8	58.2	04:40 PM - 04:45 PM	60.1	58.8
11:25 AM - 11:30 AM	57.8	57.3	02:05 PM - 02:10 PM	59.1	58.4	04:45 PM - 04:50 PM	59.5	58.6
11:30 AM - 11:35 AM	58.0	57.4	02:10 PM - 02:15 PM	59.6	58.7	04:50 PM - 04:55 PM	59.9	58.8
11:35 AM - 11:40 AM	59.0	57.5	02:15 PM - 02:20 PM	59.6	58.8	04:55 PM - 05:00 PM	59.9	58.9
11:40 AM - 11:45 AM	57.9	57.3	02:20 PM - 02:25 PM	59.5	58.6	05:00 PM - 05:05 PM	62.1	59.9
11:45 AM - 11:50 AM	58.1	57.6	02:25 PM - 02:30 PM	58.4	58.7	05:05 PM - 05:10 PM	59.9	60.2
11:50 AM - 11:55 AM	58.0	57.4	02:30 PM - 02:35 PM	59.5	58.6	05:10 PM - 05:15 PM	59.6	58.6
11:55 AM - 12:00 PM	58.2	57.3	02:35 PM - 02:40 PM	60.2	59.4	05:15 PM - 05:20 PM	59.6	59.0
12:00 PM - 12:05 PM	58.6	57.7	02:40 PM - 02:45 PM	60.2	59.4	05:20 PM - 05:25 PM	59.5	58.9
12:05 PM - 12:10 PM	57.8	57.3	02:45 PM - 02:50 PM	59.7	58.9	05:25 PM - 05:30 PM	59.6	59.0
12:10 PM - 12:15 PM	58.2	57.6	02:50 PM - 02:55 PM	59.3	58.6	05:30 PM - 05:35 PM	60.4	59.3
12:15 PM - 12:20 PM	57.8	57.2	02:55 PM - 03:00 PM	59.5	58.6	05:35 PM - 05:40 PM	59.9	59.3
12:20 PM - 12:25 PM	57.8	57.2	03:00 PM - 03:05 PM	59.4	58.8	05:40 PM - 05:45 PM	60.8	60.0
12:25 PM - 12:30 PM	58.0	57.3	03:05 PM - 03:10 PM	59.4	58.8	05:45 PM - 05:50 PM	61.2	60.3
12:30 PM - 12:35 PM	58.0	57.4	03:10 PM - 03:15 PM	59.4	59.0	05:50 PM - 05:55 PM	61.6	60.6
12:35 PM - 12:40 PM	58.9	57.7	03:15 PM - 03:20 PM	59.5	58.9	05:55 PM - 06:00 PM	63.0	60.0



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449644-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

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Sample Number : 2599776-11  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณพื้นที่โครงการหนองน้ำ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 03 - Nov 04, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 04, 2025		Nov 04, 2025		Nov 04, 2025		Nov 04, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	59.6	59.2	04:40 AM - 04:45 AM	59.8	59.2	07:20 AM - 07:25 AM	61.7	59.8
02:05 AM - 02:10 AM	59.5	59.1	04:45 AM - 04:50 AM	59.9	59.3	07:25 AM - 07:30 AM	63.6	59.6
02:10 AM - 02:15 AM	59.5	59.1	04:50 AM - 04:55 AM	59.7	59.3	07:30 AM - 07:35 AM	62.1	60.0
02:15 AM - 02:20 AM	59.6	59.2	04:55 AM - 05:00 AM	59.8	59.3	07:35 AM - 07:40 AM	65.2	60.7
02:20 AM - 02:25 AM	59.9	59.4	05:00 AM - 05:05 AM	59.7	59.3	07:40 AM - 07:45 AM	64.1	60.1
02:25 AM - 02:30 AM	59.9	59.4	05:05 AM - 05:10 AM	59.6	59.2	07:45 AM - 07:50 AM	64.3	59.7
02:30 AM - 02:35 AM	59.7	59.3	05:10 AM - 05:15 AM	59.9	59.0	07:50 AM - 07:55 AM	61.7	59.1
02:35 AM - 02:40 AM	59.9	59.3	05:15 AM - 05:20 AM	59.4	58.9	07:55 AM - 08:00 AM	62.9	59.6
02:40 AM - 02:45 AM	59.8	59.3	05:20 AM - 05:25 AM	59.3	58.9	08:00 AM - 08:05 AM	59.9	58.8
02:45 AM - 02:50 AM	59.9	59.4	05:25 AM - 05:30 AM	59.4	59.0	08:05 AM - 08:10 AM	59.3	58.5
02:50 AM - 02:55 AM	59.8	59.3	05:30 AM - 05:35 AM	59.6	59.1	08:10 AM - 08:15 AM	59.7	58.4
02:55 AM - 03:00 AM	59.9	59.3	05:35 AM - 05:40 AM	59.5	59.0	08:15 AM - 08:20 AM	63.9	61.0
03:00 AM - 03:05 AM	59.6	59.2	05:40 AM - 05:45 AM	59.5	59.0	08:20 AM - 08:25 AM	64.8	58.1
03:05 AM - 03:10 AM	59.7	59.3	05:45 AM - 05:50 AM	59.4	58.9	08:25 AM - 08:30 AM	59.6	58.4
03:10 AM - 03:15 AM	59.8	59.4	05:50 AM - 05:55 AM	59.5	58.9	08:30 AM - 08:35 AM	59.3	58.3
03:15 AM - 03:20 AM	59.9	59.5	05:55 AM - 06:00 AM	59.1	58.6	08:35 AM - 08:40 AM	60.3	58.4
03:20 AM - 03:25 AM	59.8	59.5	06:00 AM - 06:05 AM	59.6	58.8	08:40 AM - 08:45 AM	59.9	58.5
03:25 AM - 03:30 AM	60.0	59.5	06:05 AM - 06:10 AM	59.3	58.8	08:45 AM - 08:50 AM	59.4	58.6
03:30 AM - 03:35 AM	59.9	59.4	06:10 AM - 06:15 AM	59.4	58.8	08:50 AM - 08:55 AM	59.4	58.5
03:35 AM - 03:40 AM	60.0	59.6	06:15 AM - 06:20 AM	59.4	58.8	08:55 AM - 09:00 AM	59.0	58.2
03:40 AM - 03:45 AM	60.1	59.6	06:20 AM - 06:25 AM	59.4	58.8	09:00 AM - 09:05 AM	59.7	58.5
03:45 AM - 03:50 AM	60.7	60.0	06:25 AM - 06:30 AM	60.4	60.7	09:05 AM - 09:10 AM	60.7	60.6
03:50 AM - 03:55 AM	59.4	59.0	06:30 AM - 06:35 AM	59.6	59.0	09:10 AM - 09:15 AM	59.3	58.4
03:55 AM - 04:00 AM	59.8	59.3	06:35 AM - 06:40 AM	59.9	59.2	09:15 AM - 09:20 AM	59.0	58.3
04:00 AM - 04:05 AM	60.2	59.5	06:40 AM - 06:45 AM	60.3	59.4	09:20 AM - 09:25 AM	59.0	58.3
04:05 AM - 04:10 AM	59.6	59.1	06:45 AM - 06:50 AM	61.0	59.5	09:25 AM - 09:30 AM	60.8	58.4
04:10 AM - 04:15 AM	59.9	59.4	06:50 AM - 06:55 AM	60.9	59.5	09:30 AM - 09:35 AM	59.7	58.6
04:15 AM - 04:20 AM	59.4	59.0	06:55 AM - 07:00 AM	65.2	59.7	09:35 AM - 09:40 AM	60.3	58.3
04:20 AM - 04:25 AM	59.4	58.9	07:00 AM - 07:05 AM	61.8	59.4	09:40 AM - 09:45 AM	61.1	58.2
04:25 AM - 04:30 AM	59.8	59.2	07:05 AM - 07:10 AM	62.3	59.9	09:45 AM - 09:50 AM	58.6	58.0
04:30 AM - 04:35 AM	59.9	59.3	07:10 AM - 07:15 AM	65.5	60.0	09:50 AM - 09:55 AM	58.2	57.5
04:35 AM - 04:40 AM	59.7	59.0	07:15 AM - 07:20 AM	65.2	59.8	09:55 AM - 10:00 AM	58.4	57.6

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Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449644-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Page 1 of 3

Sample Number : 2599776-12  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณพื้นที่โครงการหนองน้ำ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 04 - Nov 05, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 04, 2025			Nov 04, 2025			Nov 04, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	61.0	58.3	12:40 PM - 12:45 PM	61.9	57.7	03:20 PM - 03:25 PM	59.6	58.6
10:05 AM - 10:10 AM	58.1	57.3	12:45 PM - 12:50 PM	57.5	56.8	03:25 PM - 03:30 PM	59.8	59.1
10:10 AM - 10:15 AM	58.7	57.5	12:50 PM - 12:55 PM	59.0	57.2	03:30 PM - 03:35 PM	60.4	59.3
10:15 AM - 10:20 AM	58.3	57.5	12:55 PM - 01:00 PM	59.7	57.8	03:35 PM - 03:40 PM	59.7	59.0
10:20 AM - 10:25 AM	58.3	57.6	01:00 PM - 01:05 PM	61.9	58.9	03:40 PM - 03:45 PM	59.6	59.0
10:25 AM - 10:30 AM	58.8	57.9	01:05 PM - 01:10 PM	61.3	58.5	03:45 PM - 03:50 PM	61.1	59.1
10:30 AM - 10:35 AM	58.0	57.3	01:10 PM - 01:15 PM	59.6	58.8	03:50 PM - 03:55 PM	60.0	59.0
10:35 AM - 10:40 AM	58.7	57.6	01:15 PM - 01:20 PM	59.1	58.4	03:55 PM - 04:00 PM	61.6	59.0
10:40 AM - 10:45 AM	63.3	59.9	01:20 PM - 01:25 PM	59.3	58.3	04:00 PM - 04:05 PM	62.7	59.1
10:45 AM - 10:50 AM	59.6	57.4	01:25 PM - 01:30 PM	60.3	58.3	04:05 PM - 04:10 PM	62.5	59.1
10:50 AM - 10:55 AM	59.1	58.1	01:30 PM - 01:35 PM	58.6	57.9	04:10 PM - 04:15 PM	59.8	59.0
10:55 AM - 11:00 AM	58.8	57.7	01:35 PM - 01:40 PM	59.1	58.3	04:15 PM - 04:20 PM	61.4	58.6
11:00 AM - 11:05 AM	59.3	57.1	01:40 PM - 01:45 PM	59.1	58.1	04:20 PM - 04:25 PM	59.2	58.5
11:05 AM - 11:10 AM	59.5	57.6	01:45 PM - 01:50 PM	59.3	58.3	04:25 PM - 04:30 PM	59.7	58.4
11:10 AM - 11:15 AM	59.4	57.4	01:50 PM - 01:55 PM	59.0	58.5	04:30 PM - 04:35 PM	59.9	58.9
11:15 AM - 11:20 AM	58.5	57.8	01:55 PM - 02:00 PM	59.1	58.4	04:35 PM - 04:40 PM	60.6	59.0
11:20 AM - 11:25 AM	58.9	58.0	02:00 PM - 02:05 PM	58.9	58.1	04:40 PM - 04:45 PM	60.1	58.9
11:25 AM - 11:30 AM	58.8	58.0	02:05 PM - 02:10 PM	59.6	58.3	04:45 PM - 04:50 PM	59.3	58.6
11:30 AM - 11:35 AM	58.0	57.1	02:10 PM - 02:15 PM	59.3	58.1	04:50 PM - 04:55 PM	59.0	58.4
11:35 AM - 11:40 AM	58.0	57.4	02:15 PM - 02:20 PM	61.0	58.4	04:55 PM - 05:00 PM	59.5	58.8
11:40 AM - 11:45 AM	58.5	57.5	02:20 PM - 02:25 PM	60.3	58.5	05:00 PM - 05:05 PM	61.6	59.5
11:45 AM - 11:50 AM	68.4	67.7	02:25 PM - 02:30 PM	60.7	60.1	05:05 PM - 05:10 PM	60.1	60.7
11:50 AM - 11:55 AM	58.3	57.0	02:30 PM - 02:35 PM	59.3	58.4	05:10 PM - 05:15 PM	59.4	58.7
11:55 AM - 12:00 PM	57.5	56.7	02:35 PM - 02:40 PM	59.7	58.2	05:15 PM - 05:20 PM	59.3	58.5
12:00 PM - 12:05 PM	57.6	56.8	02:40 PM - 02:45 PM	59.5	58.9	05:20 PM - 05:25 PM	59.3	58.7
12:05 PM - 12:10 PM	58.6	57.3	02:45 PM - 02:50 PM	59.4	58.5	05:25 PM - 05:30 PM	60.1	58.8
12:10 PM - 12:15 PM	57.8	56.9	02:50 PM - 02:55 PM	59.5	58.6	05:30 PM - 05:35 PM	61.3	59.2
12:15 PM - 12:20 PM	57.9	57.2	02:55 PM - 03:00 PM	60.8	59.4	05:35 PM - 05:40 PM	60.7	58.8
12:20 PM - 12:25 PM	57.5	56.9	03:00 PM - 03:05 PM	61.1	57.9	05:40 PM - 05:45 PM	59.3	58.6
12:25 PM - 12:30 PM	58.4	57.3	03:05 PM - 03:10 PM	60.1	58.6	05:45 PM - 05:50 PM	60.0	58.9
12:30 PM - 12:35 PM	58.0	57.4	03:10 PM - 03:15 PM	59.6	58.9	05:50 PM - 05:55 PM	63.3	59.2
12:35 PM - 12:40 PM	58.3	57.2	03:15 PM - 03:20 PM	60.0	59.1	05:55 PM - 06:00 PM	59.9	59.1

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Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449645-1

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Page 2 of 3

Sample Number : 2599776-12  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณพื้นที่โครงการหนองน้ำ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 04 - Nov 05, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 04, 2025		Nov 04, 2025		Nov 04, 2025		Nov 04 - Nov 05, 2025		Nov 04 - Nov 05, 2025	
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	
06:00 PM - 06:05 PM	59.9	58.1	08:40 PM - 08:45 PM	59.3	58.9	11:20 PM - 11:25 PM	59.3	58.8	
06:05 PM - 06:10 PM	60.1	59.1	08:45 PM - 08:50 PM	59.4	58.9	11:25 PM - 11:30 PM	59.4	58.8	
06:10 PM - 06:15 PM	61.3	59.1	08:50 PM - 08:55 PM	59.6	59.1	11:30 PM - 11:35 PM	59.4	59.0	
06:15 PM - 06:20 PM	59.7	58.8	08:55 PM - 09:00 PM	59.6	59.1	11:35 PM - 11:40 PM	59.8	59.1	
06:20 PM - 06:25 PM	59.4	58.9	09:00 PM - 09:05 PM	59.9	59.2	11:40 PM - 11:45 PM	59.4	58.8	
06:25 PM - 06:30 PM	60.4	59.0	09:05 PM - 09:10 PM	59.8	59.4	11:45 PM - 11:50 PM	59.3	58.7	
06:30 PM - 06:35 PM	64.1	61.1	09:10 PM - 09:15 PM	59.9	59.5	11:50 PM - 11:55 PM	59.0	58.5	
06:35 PM - 06:40 PM	59.8	59.1	09:15 PM - 09:20 PM	59.7	59.3	11:55 PM - 12:00 AM	59.1	58.6	
06:40 PM - 06:45 PM	61.8	59.0	09:20 PM - 09:25 PM	59.8	59.3	12:00 AM - 12:05 AM	59.2	58.6	
06:45 PM - 06:50 PM	60.0	59.0	09:25 PM - 09:30 PM	59.8	59.3	12:05 AM - 12:10 AM	59.9	58.9	
06:50 PM - 06:55 PM	59.5	58.8	09:30 PM - 09:35 PM	60.1	59.4	12:10 AM - 12:15 AM	61.5	58.9	
06:55 PM - 07:00 PM	60.4	58.9	09:35 PM - 09:40 PM	60.1	59.3	12:15 AM - 12:20 AM	59.4	58.9	
07:00 PM - 07:05 PM	61.2	59.0	09:40 PM - 09:45 PM	59.8	59.3	12:20 AM - 12:25 AM	59.6	59.0	
07:05 PM - 07:10 PM	60.9	59.3	09:45 PM - 09:50 PM	60.1	59.6	12:25 AM - 12:30 AM	59.3	58.6	
07:10 PM - 07:15 PM	63.9	59.8	09:50 PM - 09:55 PM	61.1	60.0	12:30 AM - 12:35 AM	59.3	58.7	
07:15 PM - 07:20 PM	61.8	59.4	09:55 PM - 10:00 PM	60.1	59.6	12:35 AM - 12:40 AM	59.2	58.7	
07:20 PM - 07:25 PM	60.6	59.3	10:00 PM - 10:05 PM	60.9	60.4	12:40 AM - 12:45 AM	59.4	58.8	
07:25 PM - 07:30 PM	59.5	58.9	10:05 PM - 10:10 PM	60.9	60.2	12:45 AM - 12:50 AM	59.6	59.1	
07:30 PM - 07:35 PM	61.2	58.9	10:10 PM - 10:15 PM	59.9	59.3	12:50 AM - 12:55 AM	59.5	59.0	
07:35 PM - 07:40 PM	59.4	58.7	10:15 PM - 10:20 PM	60.0	59.4	12:55 AM - 01:00 AM	59.5	59.0	
07:40 PM - 07:45 PM	60.0	58.7	10:20 PM - 10:25 PM	59.9	59.3	01:00 AM - 01:05 AM	59.7	59.2	
07:45 PM - 07:50 PM	59.3	58.6	10:25 PM - 10:30 PM	59.9	59.3	01:05 AM - 01:10 AM	59.6	59.2	
07:50 PM - 07:55 PM	60.1	58.9	10:30 PM - 10:35 PM	59.5	59.0	01:10 AM - 01:15 AM	59.8	59.7	
07:55 PM - 08:00 PM	60.0	59.0	10:35 PM - 10:40 PM	59.4	58.9	01:15 AM - 01:20 AM	59.5	59.1	
08:00 PM - 08:05 PM	61.3	59.0	10:40 PM - 10:45 PM	59.3	58.8	01:20 AM - 01:25 AM	59.5	59.1	
08:05 PM - 08:10 PM	59.9	58.8	10:45 PM - 10:50 PM	59.5	59.0	01:25 AM - 01:30 AM	59.3	58.6	
08:10 PM - 08:15 PM	59.2	58.6	10:50 PM - 10:55 PM	59.3	58.8	01:30 AM - 01:35 AM	59.5	59.0	
08:15 PM - 08:20 PM	59.3	58.9	10:55 PM - 11:00 PM	59.3	58.8	01:35 AM - 01:40 AM	59.5	59.0	
08:20 PM - 08:25 PM	59.3	58.9	11:00 PM - 11:05 PM	59.3	58.8	01:40 AM - 01:45 AM	59.5	59.2	
08:25 PM - 08:30 PM	59.2	58.8	11:05 PM - 11:10 PM	59.4	58.9	01:45 AM - 01:50 AM	59.7	59.2	
08:30 PM - 08:35 PM	59.4	59.0	11:10 PM - 11:15 PM	59.4	58.8	01:50 AM - 01:55 AM	60.1	59.5	
08:35 PM - 08:40 PM	59.5	59.1	11:15 PM - 11:20 PM	59.2	58.8	01:55 AM - 02:00 AM	59.1	58.4	



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449646-1

Page 2 of 3

Sample Number : 2599776-13  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 05 - Nov 06, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 05, 2025			Nov 05, 2025			Nov 05, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
10:00 AM - 10:05 AM	58.2	57.4	12:40 PM - 12:45 PM	58.8	57.6	03:20 PM - 03:25 PM	58.2	57.5
10:05 AM - 10:10 AM	58.7	58.0	12:45 PM - 12:50 PM	58.6	57.5	03:25 PM - 03:30 PM	58.8	58.0
10:10 AM - 10:15 AM	58.8	58.0	12:50 PM - 12:55 PM	57.9	57.2	03:30 PM - 03:35 PM	58.7	58.1
10:15 AM - 10:20 AM	60.0	58.4	12:55 PM - 01:00 PM	57.9	57.1	03:35 PM - 03:40 PM	59.1	58.3
10:20 AM - 10:25 AM	59.1	58.2	01:00 PM - 01:05 PM	57.7	57.1	03:40 PM - 03:45 PM	61.4	58.0
10:25 AM - 10:30 AM	59.3	57.6	01:05 PM - 01:10 PM	58.0	57.0	03:45 PM - 03:50 PM	58.5	57.9
10:30 AM - 10:35 AM	59.5	57.9	01:10 PM - 01:15 PM	58.0	56.9	03:50 PM - 03:55 PM	58.6	57.9
10:35 AM - 10:40 AM	59.2	58.3	01:15 PM - 01:20 PM	59.8	57.9	03:55 PM - 04:00 PM	58.7	58.1
10:40 AM - 10:45 AM	64.4	60.3	01:20 PM - 01:25 PM	63.8	60.1	04:00 PM - 04:05 PM	58.8	58.1
10:45 AM - 10:50 AM	63.8	60.5	01:25 PM - 01:30 PM	61.4	58.2	04:05 PM - 04:10 PM	58.8	58.1
10:50 AM - 10:55 AM	59.9	59.0	01:30 PM - 01:35 PM	59.4	58.2	04:10 PM - 04:15 PM	58.6	57.8
10:55 AM - 11:00 AM	59.0	57.9	01:35 PM - 01:40 PM	58.3	57.7	04:15 PM - 04:20 PM	58.8	58.0
11:00 AM - 11:05 AM	58.4	57.1	01:40 PM - 01:45 PM	58.5	57.8	04:20 PM - 04:25 PM	59.1	57.9
11:05 AM - 11:10 AM	58.5	57.6	01:45 PM - 01:50 PM	58.8	57.7	04:25 PM - 04:30 PM	58.7	57.9
11:10 AM - 11:15 AM	58.1	57.5	01:50 PM - 01:55 PM	57.9	57.4	04:30 PM - 04:35 PM	59.6	58.4
11:15 AM - 11:20 AM	58.2	57.5	01:55 PM - 02:00 PM	58.5	57.7	04:35 PM - 04:40 PM	60.0	58.5
11:20 AM - 11:25 AM	58.0	57.3	02:00 PM - 02:05 PM	58.7	57.9	04:40 PM - 04:45 PM	59.7	58.5
11:25 AM - 11:30 AM	58.3	57.4	02:05 PM - 02:10 PM	61.8	58.5	04:45 PM - 04:50 PM	58.9	58.0
11:30 AM - 11:35 AM	58.1	57.2	02:10 PM - 02:15 PM	62.3	58.5	04:50 PM - 04:55 PM	58.9	58.0
11:35 AM - 11:40 AM	57.9	57.1	02:15 PM - 02:20 PM	59.5	58.1	04:55 PM - 05:00 PM	59.0	58.0
11:40 AM - 11:45 AM	57.6	56.9	02:20 PM - 02:25 PM	61.9	58.2	05:00 PM - 05:05 PM	60.8	59.1
11:45 AM - 11:50 AM	67.4	67.0	02:25 PM - 02:30 PM	60.7	58.4	05:05 PM - 05:10 PM	60.1	58.4
11:50 AM - 11:55 AM	58.5	56.8	02:30 PM - 02:35 PM	58.6	57.6	05:10 PM - 05:15 PM	59.0	58.2
11:55 AM - 12:00 PM	57.5	56.7	02:35 PM - 02:40 PM	58.5	57.8	05:15 PM - 05:20 PM	58.7	57.8
12:00 PM - 12:05 PM	59.8	58.8	02:40 PM - 02:45 PM	58.0	57.4	05:20 PM - 05:25 PM	58.7	58.1
12:05 PM - 12:10 PM	57.2	56.6	02:45 PM - 02:50 PM	58.8	57.9	05:25 PM - 05:30 PM	58.6	58.0
12:10 PM - 12:15 PM	57.4	56.9	02:50 PM - 02:55 PM	58.6	57.9	05:30 PM - 05:35 PM	58.8	58.1
12:15 PM - 12:20 PM	57.5	56.8	02:55 PM - 03:00 PM	58.2	57.6	05:35 PM - 05:40 PM	58.7	58.1
12:20 PM - 12:25 PM	57.5	56.9	03:00 PM - 03:05 PM	60.9	58.4	05:40 PM - 05:45 PM	58.7	58.0
12:25 PM - 12:30 PM	58.6	57.1	03:05 PM - 03:10 PM	61.0	59.3	05:45 PM - 05:50 PM	58.9	58.3
12:30 PM - 12:35 PM	57.8	57.3	03:10 PM - 03:15 PM	59.4	57.6	05:50 PM - 05:55 PM	58.8	58.2
12:35 PM - 12:40 PM	57.9	57.3	03:15 PM - 03:20 PM	59.3	57.9	05:55 PM - 06:00 PM	59.3	58.2

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449646-1

Page 2 of 3

Sample Number : 2599776-13  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 05 - Nov 06, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 05, 2025			Nov 05, 2025			Nov 05 - Nov 06, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
06:00 PM - 06:05 PM	61.3	58.8	08:40 PM - 08:45 PM	59.0	58.6	11:20 PM - 11:25 PM	59.3	58.8
06:05 PM - 06:10 PM	59.7	58.6	08:45 PM - 08:50 PM	59.1	58.6	11:25 PM - 11:30 PM	59.3	58.9
06:10 PM - 06:15 PM	58.9	58.3	08:50 PM - 08:55 PM	59.1	58.7	11:30 PM - 11:35 PM	59.5	59.0
06:15 PM - 06:20 PM	58.8	58.2	08:55 PM - 09:00 PM	59.3	58.8	11:35 PM - 11:40 PM	59.5	58.9
06:20 PM - 06:25 PM	58.9	58.3	09:00 PM - 09:05 PM	59.1	58.7	11:40 PM - 11:45 PM	59.5	59.1
06:25 PM - 06:30 PM	58.9	58.4	09:05 PM - 09:10 PM	58.9	58.5	11:45 PM - 11:50 PM	59.5	59.0
06:30 PM - 06:35 PM	58.9	58.4	09:10 PM - 09:15 PM	59.1	58.7	11:50 PM - 11:55 PM	59.4	58.9
06:35 PM - 06:40 PM	58.8	58.3	09:15 PM - 09:20 PM	58.9	58.5	11:55 PM - 12:00 AM	59.4	59.0
06:40 PM - 06:45 PM	60.8	58.4	09:20 PM - 09:25 PM	58.8	58.4	12:00 AM - 12:05 AM	59.2	58.8
06:45 PM - 06:50 PM	59.0	58.5	09:25 PM - 09:30 PM	59.8	58.6	12:05 AM - 12:10 AM	59.2	58.8
06:50 PM - 06:55 PM	59.1	58.4	09:30 PM - 09:35 PM	60.2	58.7	12:10 AM - 12:15 AM	59.4	58.9
06:55 PM - 07:00 PM	59.0	58.5	09:35 PM - 09:40 PM	59.1	58.6	12:15 AM - 12:20 AM	59.4	58.9
07:00 PM - 07:05 PM	59.1	58.1	09:40 PM - 09:45 PM	59.3	58.9	12:20 AM - 12:25 AM	59.5	59.1
07:05 PM - 07:10 PM	59.1	58.4	09:45 PM - 09:50 PM	59.2	58.8	12:25 AM - 12:30 AM	59.8	59.1
07:10 PM - 07:15 PM	59.0	58.4	09:50 PM - 09:55 PM	60.8	58.9	12:30 AM - 12:35 AM	59.5	59.0
07:15 PM - 07:20 PM	59.4	58.6	09:55 PM - 10:00 PM	59.3	58.8	12:35 AM - 12:40 AM	59.5	59.1
07:20 PM - 07:25 PM	59.2	58.7	10:00 PM - 10:05 PM	60.2	59.7	12:40 AM - 12:45 AM	59.5	59.1
07:25 PM - 07:30 PM	60.9	58.7	10:05 PM - 10:10 PM	60.2	59.7	12:45 AM - 12:50 AM	59.4	59.0
07:30 PM - 07:35 PM	60.3	58.8	10:10 PM - 10:15 PM	59.5	58.8	12:50 AM - 12:55 AM	59.5	59.0
07:35 PM - 07:40 PM	59.7	58.8	10:15 PM - 10:20 PM	59.4	59.0	12:55 AM - 01:00 AM	59.4	59.0
07:40 PM - 07:45 PM	59.9	58.7	10:20 PM - 10:25 PM	59.4	58.9	01:00 AM - 01:05 AM	59.2	58.8
07:45 PM - 07:50 PM	60.7	58.6	10:25 PM - 10:30 PM	60.7	58.9	01:05 AM - 01:10 AM	60.6	58.6
07:50 PM - 07:55 PM	60.5	58.7	10:30 PM - 10:35 PM	59.4	59.0	01:10 AM - 01:15 AM	59.4	59.0
07:55 PM - 08:00 PM	59.4	58.6	10:35 PM - 10:40 PM	59.4	58.9	01:15 AM - 01:20 AM	59.3	58.8
08:00 PM - 08:05 PM	59.4	58.7	10:40 PM - 10:45 PM	59.2	58.8	01:20 AM - 01:25 AM	59.2	58.8
08:05 PM - 08:10 PM	59.1	58.6	10:45 PM - 10:50 PM	59.4	59.0	01:25 AM - 01:30 AM	59.2	58.7
08:10 PM - 08:15 PM	59.0	58.6	10:50 PM - 10:55 PM	59.5	59.2	01:30 AM - 01:35 AM	59.5	59.0
08:15 PM - 08:20 PM	58.9	58.6	10:55 PM - 11:00 PM	59.7	59.2	01:35 AM - 01:40 AM	59.6	59.2
08:20 PM - 08:25 PM	59.0	58.6	11:00 PM - 11:05 PM	59.7	59.2	01:40 AM - 01:45 AM	59.4	59.0
08:25 PM - 08:30 PM	59.0	58.6	11:05 PM - 11:10 PM	59.4	59.0	01:45 AM - 01:50 AM	59.5	59.0
08:30 PM - 08:35 PM	59.0	58.6	11:10 PM - 11:15 PM	59.5	59.0	01:50 AM - 01:55 AM	59.5	59.1
08:35 PM - 08:40 PM	59.1	58.6	11:15 PM - 11:20 PM	59.4	59.0	01:55 AM - 02:00 AM	59.9	59.2

Approved by

Sarayuht Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449646-1

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Sample Number : 2599776-13  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (พื้นที่บริเวณโครงการท่าเรือและท่าเรือ) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 05 - Nov 06, 2025  
Measurement by : Norranon Tathongkham  
Sound Level meter : Serial No. 00296515

Nov 06, 2025			Nov 06, 2025			Nov 06, 2025		
Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)	Time	Leq dB(A)	L90 dB(A)
02:00 AM - 02:05 AM	59.6	59.1	04:40 AM - 04:45 AM	59.6	59.2	07:20 AM - 07:25 AM	61.6	58.8
02:05 AM - 02:10 AM	59.6	59.1	04:45 AM - 04:50 AM	59.5	59.2	07:25 AM - 07:30 AM	64.7	58.6
02:10 AM - 02:15 AM	59.5	59.1	04:50 AM - 04:55 AM	59.4	59.0	07:30 AM - 07:35 AM	63.0	59.3
02:15 AM - 02:20 AM	59.5	59.1	04:55 AM - 05:00 AM	59.6	59.1	07:35 AM - 07:40 AM	62.1	59.4
02:20 AM - 02:25 AM	59.5	59.1	05:00 AM - 05:05 AM	59.5	59.1	07:40 AM - 07:45 AM	61.9	59.0
02:25 AM - 02:30 AM	59.5	59.1	05:05 AM - 05:10 AM	59.4	59.0	07:45 AM - 07:50 AM	61.8	58.4
02:30 AM - 02:35 AM	59.6	59.1	05:10 AM - 05:15 AM	59.8	59.3	07:50 AM - 07:55 AM	61.0	58.1
02:35 AM - 02:40 AM	59.6	59.2	05:15 AM - 05:20 AM	59.6	59.1	07:55 AM - 08:00 AM	58.7	57.7
02:40 AM - 02:45 AM	59.6	59.2	05:20 AM - 05:25 AM	59.8	59.3	08:00 AM - 08:05 AM	59.7	57.6
02:45 AM - 02:50 AM	59.6	59.2	05:25 AM - 05:30 AM	59.7	59.3	08:05 AM - 08:10 AM	58.3	57.5
02:50 AM - 02:55 AM	59.5	59.1	05:30 AM - 05:35 AM	59.7	59.3	08:10 AM - 08:15 AM	58.4	57.6
02:55 AM - 03:00 AM	59.6	59.2	05:35 AM - 05:40 AM	59.8	59.3	08:15 AM - 08:20 AM	58.2	57.4
03:00 AM - 03:05 AM	59.6	59.3	05:40 AM - 05:45 AM	59.8	59.3	08:20 AM - 08:25 AM	58.1	57.3
03:05 AM - 03:10 AM	59.9	59.4	05:45 AM - 05:50 AM	59.9	59.4	08:25 AM - 08:30 AM	58.0	57.3
03:10 AM - 03:15 AM	59.8	59.4	05:50 AM - 05:55 AM	59.7	59.3	08:30 AM - 08:35 AM	58.6	57.4
03:15 AM - 03:20 AM	59.6	59.1	05:55 AM - 06:00 AM	59.5	59.0	08:35 AM - 08:40 AM	58.1	57.4
03:20 AM - 03:25 AM	59.7	59.3	06:00 AM - 06:05 AM	59.9	59.3	08:40 AM - 08:45 AM	57.8	57.3
03:25 AM - 03:30 AM	59.5	59.1	06:05 AM - 06:10 AM	59.5	59.0	08:45 AM - 08:50 AM	58.3	57.3
03:30 AM - 03:35 AM	59.6	59.2	06:10 AM - 06:15 AM	59.6	59.1	08:50 AM - 08:55 AM	57.8	57.1
03:35 AM - 03:40 AM	59.6	59.1	06:15 AM - 06:20 AM	59.5	59.0	08:55 AM - 09:00 AM	57.8	57.1
03:40 AM - 03:45 AM	59.5	59.1	06:20 AM - 06:25 AM	59.4	58.9	09:00 AM - 09:05 AM	57.6	57.0
03:45 AM - 03:50 AM	59.5	59.1	06:25 AM - 06:30 AM	59.5	58.9	09:05 AM - 09:10 AM	57.3	56.9
03:50 AM - 03:55 AM	59.5	59.0	06:30 AM - 06:35 AM	59.7	59.0	09:10 AM - 09:15 AM	61.0	57.3
03:55 AM - 04:00 AM	59.4	59.0	06:35 AM - 06:40 AM	59.6	58.9	09:15 AM - 09:20 AM	60.8	58.2
04:00 AM - 04:05 AM	59.4	59.0	06:40 AM - 06:45 AM	60.9	59.2	09:20 AM - 09:25 AM	58.2	57.4
04:05 AM - 04:10 AM	59.4	59.0	06:45 AM - 06:50 AM	60.1	59.3	09:25 AM - 09:30 AM	58.0	57.2
04:10 AM - 04:15 AM	59.4	59.0	06:50 AM - 06:55 AM	60.3	59.3	09:30 AM - 09:35 AM	57.7	57.2
04:15 AM - 04:20 AM	59.5	59.0	06:55 AM - 07:00 AM	61.4	59.6	09:35 AM - 09:40 AM	58.0	57.1
04:20 AM - 04:25 AM	59.4	59.0	07:00 AM - 07:05 AM	61.2	59.4	09:40 AM - 09:45 AM	57.8	57.1
04:25 AM - 04:30 AM	59.4	59.0	07:05 AM - 07:10 AM	62.5	59.5	09:45 AM - 09:50 AM	58.0	57.3
04:30 AM - 04:35 AM	59.5	59.1	07:10 AM - 07:15 AM	62.1	59.1	09:50 AM - 09:55 AM	58.0	57.0
04:35 AM - 04:40 AM	59.7	59.2	07:15 AM - 07:20 AM	61.7	59.3	09:55 AM - 10:00 AM	61.2	56.8



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449647-1

P/O : 4210002378  
Project Name : Monitoring EIA  
Project Location : GNL2

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Sample Number : 2599776-14  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณศูนย์โครงการท่าเรือแหลมฉบัง) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 06 - Nov 07, 2025  
Measurement by : Noranon Tattongkham  
Sound Level meter : Serial No. 00296515

Nov 06, 2025		Nov 06, 2025		Nov 06 - Nov 07, 2025		Nov 06 - Nov 07, 2025	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
06:00 PM - 06:05 PM	60.4	08:40 PM - 08:45 PM	59.6	11:20 PM - 11:25 PM	59.3	02:00 AM - 02:05 AM	59.3
06:05 PM - 06:10 PM	63.5	08:45 PM - 08:50 PM	59.6	11:25 PM - 11:30 PM	59.5	02:05 AM - 02:10 AM	59.4
06:10 PM - 06:15 PM	62.0	08:50 PM - 08:55 PM	59.5	11:30 PM - 11:35 PM	59.5	02:10 AM - 02:15 AM	59.6
06:15 PM - 06:20 PM	58.9	08:55 PM - 09:00 PM	59.6	11:35 PM - 11:40 PM	59.6	02:15 AM - 02:20 AM	59.3
06:20 PM - 06:25 PM	58.7	09:00 PM - 09:05 PM	59.6	11:40 PM - 11:45 PM	59.3	02:20 AM - 02:25 AM	59.8
06:25 PM - 06:30 PM	58.9	09:05 PM - 09:10 PM	59.4	11:45 PM - 11:50 PM	59.2	02:25 AM - 02:30 AM	60.4
06:30 PM - 06:35 PM	58.7	09:10 PM - 09:15 PM	59.5	11:50 PM - 11:55 PM	59.5	02:30 AM - 02:35 AM	59.5
06:35 PM - 06:40 PM	58.9	09:15 PM - 09:20 PM	59.8	11:55 PM - 12:00 AM	59.6	02:35 AM - 02:40 AM	59.8
06:40 PM - 06:45 PM	59.2	09:20 PM - 09:25 PM	59.7	12:00 AM - 12:05 AM	59.9	02:40 AM - 02:45 AM	59.5
06:45 PM - 06:50 PM	58.9	09:25 PM - 09:30 PM	59.4	12:05 AM - 12:10 AM	59.7	02:45 AM - 02:50 AM	59.7
06:50 PM - 06:55 PM	62.7	09:30 PM - 09:35 PM	59.6	12:10 AM - 12:15 AM	59.7	02:50 AM - 02:55 AM	60.0
06:55 PM - 07:00 PM	60.9	09:35 PM - 09:40 PM	59.2	12:15 AM - 12:20 AM	59.8	02:55 AM - 03:00 AM	59.6
07:00 PM - 07:05 PM	60.4	09:40 PM - 09:45 PM	59.6	12:20 AM - 12:25 AM	59.7	03:00 AM - 03:05 AM	59.4
07:05 PM - 07:10 PM	59.3	09:45 PM - 09:50 PM	59.6	12:25 AM - 12:30 AM	60.0	03:05 AM - 03:10 AM	59.1
07:10 PM - 07:15 PM	59.9	09:50 PM - 09:55 PM	60.1	12:30 AM - 12:35 AM	59.5	03:10 AM - 03:15 AM	59.4
07:15 PM - 07:20 PM	61.0	09:55 PM - 10:00 PM	59.7	12:35 AM - 12:40 AM	59.3	03:15 AM - 03:20 AM	59.4
07:20 PM - 07:25 PM	59.5	10:00 PM - 10:05 PM	60.0	12:40 AM - 12:45 AM	59.1	03:20 AM - 03:25 AM	59.6
07:25 PM - 07:30 PM	60.0	10:05 PM - 10:10 PM	59.8	12:45 AM - 12:50 AM	59.2	03:25 AM - 03:30 AM	59.3
07:30 PM - 07:35 PM	60.5	10:10 PM - 10:15 PM	59.4	12:50 AM - 12:55 AM	58.8	03:30 AM - 03:35 AM	59.2
07:35 PM - 07:40 PM	60.6	10:15 PM - 10:20 PM	59.6	12:55 AM - 01:00 AM	58.7	03:35 AM - 03:40 AM	59.0
07:40 PM - 07:45 PM	60.6	10:20 PM - 10:25 PM	59.4	01:00 AM - 01:05 AM	58.8	03:40 AM - 03:45 AM	59.2
07:45 PM - 07:50 PM	60.4	10:25 PM - 10:30 PM	60.0	01:05 AM - 01:10 AM	58.4	03:45 AM - 03:50 AM	60.3
07:50 PM - 07:55 PM	61.2	10:30 PM - 10:35 PM	59.4	01:10 AM - 01:15 AM	58.8	03:50 AM - 03:55 AM	59.0
07:55 PM - 08:00 PM	60.7	10:35 PM - 10:40 PM	59.3	01:15 AM - 01:20 AM	58.7	03:55 AM - 04:00 AM	58.7
08:00 PM - 08:05 PM	61.4	10:40 PM - 10:45 PM	59.6	01:20 AM - 01:25 AM	58.9	04:00 AM - 04:05 AM	58.4
08:05 PM - 08:10 PM	59.6	10:45 PM - 10:50 PM	59.8	01:25 AM - 01:30 AM	59.1	04:05 AM - 04:10 AM	58.8
08:10 PM - 08:15 PM	59.4	10:50 PM - 10:55 PM	60.0	01:30 AM - 01:35 AM	59.3	04:10 AM - 04:15 AM	58.5
08:15 PM - 08:20 PM	59.4	10:55 PM - 11:00 PM	59.6	01:35 AM - 01:40 AM	59.1	04:15 AM - 04:20 AM	59.0
08:20 PM - 08:25 PM	59.6	11:00 PM - 11:05 PM	59.5	01:40 AM - 01:45 AM	59.4	04:20 AM - 04:25 AM	59.1
08:25 PM - 08:30 PM	59.5	11:05 PM - 11:10 PM	59.6	01:45 AM - 01:50 AM	59.4	04:25 AM - 04:30 AM	59.1
08:30 PM - 08:35 PM	59.6	11:10 PM - 11:15 PM	59.4	01:50 AM - 01:55 AM	59.3	04:30 AM - 04:35 AM	59.3
08:35 PM - 08:40 PM	59.7	11:15 PM - 11:20 PM	59.2	01:55 AM - 02:00 AM	59.2	04:35 AM - 04:40 AM	59.4

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

Lot ID: 2599776  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number : 3449647-1

P/O : 4210002378  
Project Name : Monitoring EIA  
Project Location : GNL2

Page 3 of 3

Sample Number : 2599776-14  
Parameter : Noise Level (Leq 5 min)  
Location : N2 : พื้นที่โครงการ (บริเวณศูนย์โครงการท่าเรือแหลมฉบัง) (GPS 47P 0744656, 1419366)  
Measurement Date : Nov 06 - Nov 07, 2025  
Measurement by : Noranon Tattongkham  
Sound Level meter : Serial No. 00296515

Nov 07, 2025		Nov 07, 2025		Nov 07, 2025		Nov 07, 2025	
Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)	Time	Leq dB(A)
02:00 AM - 02:05 AM	59.3	04:40 AM - 04:45 AM	59.4	07:20 AM - 07:25 AM	61.9	07:20 AM - 07:25 AM	61.9
02:05 AM - 02:10 AM	59.4	04:45 AM - 04:50 AM	59.5	07:25 AM - 07:30 AM	64.0	07:25 AM - 07:30 AM	64.0
02:10 AM - 02:15 AM	59.6	04:50 AM - 04:55 AM	59.3	07:30 AM - 07:35 AM	64.3	07:30 AM - 07:35 AM	64.3
02:15 AM - 02:20 AM	59.6	04:55 AM - 05:00 AM	59.0	07:35 AM - 07:40 AM	61.6	07:35 AM - 07:40 AM	61.6
02:20 AM - 02:25 AM	59.8	05:00 AM - 05:05 AM	59.0	07:40 AM - 07:45 AM	62.7	07:40 AM - 07:45 AM	62.7
02:25 AM - 02:30 AM	60.4	05:05 AM - 05:10 AM	58.8	07:45 AM - 07:50 AM	62.1	07:45 AM - 07:50 AM	62.1
02:30 AM - 02:35 AM	59.5	05:10 AM - 05:15 AM	58.8	07:50 AM - 07:55 AM	61.0	07:50 AM - 07:55 AM	61.0
02:35 AM - 02:40 AM	59.8	05:15 AM - 05:20 AM	58.8	07:55 AM - 08:00 AM	59.8	07:55 AM - 08:00 AM	59.8
02:40 AM - 02:45 AM	59.5	05:20 AM - 05:25 AM	58.5	08:00 AM - 08:05 AM	59.3	08:00 AM - 08:05 AM	59.3
02:45 AM - 02:50 AM	59.7	05:25 AM - 05:30 AM	58.5	08:05 AM - 08:10 AM	59.6	08:05 AM - 08:10 AM	59.6
02:50 AM - 02:55 AM	60.0	05:30 AM - 05:35 AM	58.6	08:10 AM - 08:15 AM	59.3	08:10 AM - 08:15 AM	59.3
02:55 AM - 03:00 AM	59.6	05:35 AM - 05:40 AM	58.6	08:15 AM - 08:20 AM	59.0	08:15 AM - 08:20 AM	59.0
03:00 AM - 03:05 AM	59.4	05:40 AM - 05:45 AM	58.7	08:20 AM - 08:25 AM	60.7	08:20 AM - 08:25 AM	60.7
03:05 AM - 03:10 AM	59.1	05:45 AM - 05:50 AM	58.5	08:25 AM - 08:30 AM	60.5	08:25 AM - 08:30 AM	60.5
03:10 AM - 03:15 AM	59.4	05:50 AM - 05:55 AM	59.0	08:30 AM - 08:35 AM	60.8	08:30 AM - 08:35 AM	60.8
03:15 AM - 03:20 AM	59.4	05:55 AM - 06:00 AM	59.2	08:35 AM - 08:40 AM	59.4	08:35 AM - 08:40 AM	59.4
03:20 AM - 03:25 AM	59.6	06:00 AM - 06:05 AM	59.4	08:40 AM - 08:45 AM	60.2	08:40 AM - 08:45 AM	60.2
03:25 AM - 03:30 AM	59.3	06:05 AM - 06:10 AM	59.3	08:45 AM - 08:50 AM	62.2	08:45 AM - 08:50 AM	62.2
03:30 AM - 03:35 AM	59.2	06:10 AM - 06:15 AM	59.7	08:50 AM - 08:55 AM	61.6	08:50 AM - 08:55 AM	61.6
03:35 AM - 03:40 AM	59.0	06:15 AM - 06:20 AM	59.9	08:55 AM - 09:00 AM	61.0	08:55 AM - 09:00 AM	61.0
03:40 AM - 03:45 AM	59.2	06:20 AM - 06:25 AM	59.9	09:00 AM - 09:05 AM	59.1	09:00 AM - 09:05 AM	59.1
03:45 AM - 03:50 AM	60.3	06:25 AM - 06:30 AM	60.0	09:05 AM - 09:10 AM	58.7	09:05 AM - 09:10 AM	58.7
03:50 AM - 03:55 AM	59.0	06:30 AM - 06:35 AM	59.7	09:10 AM - 09:15 AM	58.2	09:10 AM - 09:15 AM	58.2
03:55 AM - 04:00 AM	58.7	06:35 AM - 06:40 AM	59.9	09:15 AM - 09:20 AM	59.3	09:15 AM - 09:20 AM	59.3
04:00 AM - 04:05 AM	58.8	06:40 AM - 06:45 AM	60.6	09:20 AM - 09:25 AM	59.4	09:20 AM - 09:25 AM	59.4
04:05 AM - 04:10 AM	58.8	06:45 AM - 06:50 AM	60.0	09:25 AM - 09:30 AM	60.4	09:25 AM - 09:30 AM	60.4
04:10 AM - 04:15 AM	58.8	06:50 AM - 06:55 AM	60.3	09:30 AM - 09:35 AM	59.2	09:30 AM - 09:35 AM	59.2
04:15 AM - 04:20 AM	59.0	06:55 AM - 07:00 AM	62.0	09:35 AM - 09:40 AM	60.4	09:35 AM - 09:40 AM	60.4
04:20 AM - 04:25 AM	59.1	07:00 AM - 07:05 AM	61.2	09:40 AM - 09:45 AM	60.1	09:40 AM - 09:45 AM	60.1
04:25 AM - 04:30 AM	59.1	07:05 AM - 07:10 AM	65.3	09:45 AM - 09:50 AM	59.2	09:45 AM - 09:50 AM	59.2
04:30 AM - 04:35 AM	59.3	07:10 AM - 07:15 AM	62.1	09:50 AM - 09:55 AM	59.2	09:50 AM - 09:55 AM	59.2
04:35 AM - 04:40 AM	59.4	07:15 AM - 07:20 AM	61.9	09:55 AM - 10:00 AM	59.0	09:55 AM - 10:00 AM	59.0

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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ระดับเสียงเฉลี่ย 8 ชั่วโมง (ต่อเนื่อง 72 ชั่วโมง)



Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450626-1

Page 1 of 1

Sample Number : 2599788-1  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	79.4	80.5	79.2
11:00 AM - 12:00 PM	79.3	80.4	79.1
12:00 PM - 01:00 PM	79.3	80.1	79.0
01:00 PM - 02:00 PM	79.5	81.4	79.0
02:00 PM - 03:00 PM	80.1	81.3	79.9
03:00 PM - 04:00 PM	80.0	81.0	79.7
04:00 PM - 05:00 PM	79.9	80.9	79.8
05:00 PM - 06:00 PM	80.0	80.9	79.8

Leq Average 8 hrs. (dB(A)) : 79.7  
Lmax (dB(A)) : 81.4  
Standard (dB(A)) : 90  
Reference Method : ISO 1996-1 : 2016  
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง  
ในการประกอบกิจการโรงงานหรืออาคารและสถานที่ตาม พ.ร.บ.รณ.

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14289-4U (EAGL)

3 VReport\_Air Noise rpt (2-24/10)



Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450627-1

Page 1 of 1

Sample Number : 2599788-2  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	80.4	81.4	80.0
07:00 PM - 08:00 PM	80.2	82.3	79.9
08:00 PM - 09:00 PM	79.9	81.0	79.6
09:00 PM - 10:00 PM	80.0	81.1	79.7
10:00 PM - 11:00 PM	79.7	80.8	79.4
11:00 PM - 12:00 AM	79.7	80.3	79.5
12:00 AM - 01:00 AM	79.9	80.4	79.5
01:00 AM - 02:00 AM	79.9	80.4	79.7

Leq Average 8 hrs. (dB(A)) : 79.9  
Lmax (dB(A)) : 82.3  
Standard (dB(A)) : 90  
Reference Method : ISO 1996-1 : 2016  
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง  
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14289-4U (EAGL)

3 VReport\_Air Noise rpt (2-24/10)



## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450630-1

Page 1 of 1

Sample Number : 2599788-5  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	80.2	81.1	79.9
07:00 PM - 08:00 PM	80.1	81.2	79.8
08:00 PM - 09:00 PM	80.1	81.1	79.7
09:00 PM - 10:00 PM	80.2	81.4	79.9
10:00 PM - 11:00 PM	79.7	80.9	79.3
11:00 PM - 12:00 AM	79.7	80.3	79.6
12:00 AM - 01:00 AM	79.8	80.3	79.6
01:00 AM - 02:00 AM	79.8	80.4	79.6
Leq Average 8 hrs. (dB(A))	80.0		
Lmax (dB(A))		81.4	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประกอบกิจการโรงงานหรืออาคารและสถานที่ตาม พ.ร.บ.ร.ด.ร.			

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14289-4U (EML)

S:\Reports\_Air Noise\pt (2-2698)



## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450631-1

Page 1 of 1

Sample Number : 2599788-6  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	79.9	80.5	79.7
03:00 AM - 04:00 AM	80.1	80.8	79.9
04:00 AM - 05:00 AM	80.0	80.6	79.9
05:00 AM - 06:00 AM	80.0	80.8	79.8
06:00 AM - 07:00 AM	80.1	80.8	79.9
07:00 AM - 08:00 AM	79.9	80.6	79.8
08:00 AM - 09:00 AM	79.8	80.4	79.5
09:00 AM - 10:00 AM	79.4	80.3	79.2
Leq Average 8 hrs. (dB(A))	79.9		
Lmax (dB(A))		80.8	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประกอบกิจการโรงงานหรืออาคารและสถานที่ตาม พ.ร.บ.ร.ด.ร.			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450632-1

Page 1 of 1

Sample Number : 2599788-7  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	79.4	80.3	79.2
11:00 AM - 12:00 PM	79.4	80.0	79.2
12:00 PM - 01:00 PM	79.5	80.1	79.3
01:00 PM - 02:00 PM	79.5	81.3	79.0
02:00 PM - 03:00 PM	79.9	80.9	79.6
03:00 PM - 04:00 PM	79.9	81.1	79.5
04:00 PM - 05:00 PM	80.0	81.2	79.7
05:00 PM - 06:00 PM	79.9	81.1	79.6
Leq Average 8 hrs. (dB(A))	79.7		
Lmax (dB(A))		81.3	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประกอบกิจการโรงงานหรืออาคารและสถานที่ตาม พ.ร.บ.ร.ด.ร.			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450633-1

Page 1 of 1

Sample Number : 2599788-8  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	80.0	81.0	79.7
07:00 PM - 08:00 PM	80.1	81.0	79.8
08:00 PM - 09:00 PM	80.0	81.0	79.7
09:00 PM - 10:00 PM	80.0	80.9	79.8
10:00 PM - 11:00 PM	79.6	80.7	79.3
11:00 PM - 12:00 AM	79.6	80.3	79.4
12:00 AM - 01:00 AM	79.6	80.2	79.5
01:00 AM - 02:00 AM	79.7	80.2	79.6
Leq Average 8 hrs. (dB(A))	79.8		
Lmax (dB(A))		81.0	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประกอบกิจการโรงงานหรืออาคารและสถานที่ตาม พ.ร.บ.ร.ด.ร.			

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S:\Reports\_Air Noise\pt (2-2798)



## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 18, 2025  
Report Number: 3450634-1

Page 1 of 1

Sample Number : 2599788-9  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Nov 06, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	79.8	80.4	79.6
03:00 AM - 04:00 AM	79.8	80.5	79.7
04:00 AM - 05:00 AM	79.9	80.7	79.7
05:00 AM - 06:00 AM	80.0	81.0	79.8
06:00 AM - 07:00 AM	79.8	80.4	79.6
07:00 AM - 08:00 AM	79.5	80.2	79.3
08:00 AM - 09:00 AM	79.3	80.0	79.1
09:00 AM - 10:00 AM	79.3	80.0	79.1
Leq Average 8 hrs. (dB(A))	79.8		
Lmax (dB(A))		81.0	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบทางสิ่งแวดล้อมและสุขภาพของชุมชน			

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S:\Reports\_Air Noise\pt (11-41AM)



## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450635-1

Page 1 of 1

Sample Number : 2599788-10  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	77.7	80.3	77.2
11:00 AM - 12:00 PM	77.5	78.7	77.0
12:00 PM - 01:00 PM	77.7	78.9	77.2
01:00 PM - 02:00 PM	78.1	80.6	77.4
02:00 PM - 03:00 PM	78.2	80.1	77.6
03:00 PM - 04:00 PM	78.0	80.1	77.5
04:00 PM - 05:00 PM	77.9	79.7	77.5
05:00 PM - 06:00 PM	78.0	80.0	77.6
Leq Average 8 hrs. (dB(A))	77.9		
Lmax (dB(A))		80.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบทางสิ่งแวดล้อมและสุขภาพของชุมชน			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450636-1

Page 1 of 1

Sample Number : 2599788-11  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 07:00 PM	78.7	79.7	78.3
07:00 PM - 08:00 PM	78.1	81.4	77.6
08:00 PM - 09:00 PM	78.4	80.6	77.9
09:00 PM - 10:00 PM	78.3	79.3	77.8
10:00 PM - 11:00 PM	77.6	79.1	76.9
11:00 PM - 12:00 AM	77.8	78.6	77.3
12:00 AM - 01:00 AM	77.3	78.3	77.0
01:00 AM - 02:00 AM	77.6	78.4	77.3
Leq Average 8 hrs. (dB(A))	78.0		
Lmax (dB(A))		81.4	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบทางสิ่งแวดล้อมและสุขภาพของชุมชน			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450637-1

Page 1 of 1

Sample Number : 2599788-12  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.5	78.7	77.1
03:00 AM - 04:00 AM	77.5	78.6	77.2
04:00 AM - 05:00 AM	77.6	78.4	77.2
05:00 AM - 06:00 AM	77.5	78.4	77.2
06:00 AM - 07:00 AM	77.5	78.5	77.1
07:00 AM - 08:00 AM	77.5	78.7	77.1
08:00 AM - 09:00 AM	77.6	79.0	77.2
09:00 AM - 10:00 AM	78.0	79.2	77.6
Leq Average 8 hrs. (dB(A))	77.6		
Lmax (dB(A))		79.2	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบทางสิ่งแวดล้อมและสุขภาพของชุมชน			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450638-1

Page 1 of 1

Sample Number : 2599788-13  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	77.9	79.0	77.3
11:00 AM - 12:00 PM	77.5	78.9	77.0
12:00 PM - 01:00 PM	77.6	78.9	77.2
01:00 PM - 02:00 PM	77.7	79.5	77.2
02:00 PM - 03:00 PM	78.3	80.3	77.6
03:00 PM - 04:00 PM	78.5	80.8	77.8
04:00 PM - 05:00 PM	78.6	80.0	77.9
05:00 PM - 06:00 PM	78.2	80.2	77.4
Leq Average 8 hrs. (dB(A))	78.1		
Lmax (dB(A))		80.8	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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S:\Reports\_Air Noise\pt (2-2896)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450639-1

Page 1 of 1

Sample Number : 2599788-14  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	78.0	79.5	77.6
07:00 PM - 08:00 PM	78.1	79.8	77.6
08:00 PM - 09:00 PM	78.2	79.6	77.6
09:00 PM - 10:00 PM	78.2	79.3	77.9
10:00 PM - 11:00 PM	77.7	79.1	77.1
11:00 PM - 12:00 AM	77.7	78.7	77.2
12:00 AM - 01:00 AM	77.5	78.7	77.2
01:00 AM - 02:00 AM	77.4	78.2	77.1
Leq Average 8 hrs. (dB(A))	77.9		
Lmax (dB(A))		79.8	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450640-1

Page 1 of 1

Sample Number : 2599788-15  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.6	78.6	77.3
03:00 AM - 04:00 AM	77.7	78.7	77.4
04:00 AM - 05:00 AM	77.6	78.6	77.2
05:00 AM - 06:00 AM	77.6	78.7	77.2
06:00 AM - 07:00 AM	77.8	78.8	77.4
07:00 AM - 08:00 AM	77.5	78.6	77.2
08:00 AM - 09:00 AM	77.9	79.4	77.4
09:00 AM - 10:00 AM	77.9	79.0	77.6
Leq Average 8 hrs. (dB(A))	77.7		
Lmax (dB(A))		79.4	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450641-1

Page 1 of 1

Sample Number : 2599788-16  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูทางออกโรงไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	77.6	78.9	77.1
11:00 AM - 12:00 PM	77.4	78.7	77.0
12:00 PM - 01:00 PM	77.5	78.5	77.1
01:00 PM - 02:00 PM	77.7	79.9	77.2
02:00 PM - 03:00 PM	77.8	80.0	77.2
03:00 PM - 04:00 PM	77.9	79.7	77.3
04:00 PM - 05:00 PM	77.5	79.1	77.1
05:00 PM - 06:00 PM	77.6	79.3	77.1
Leq Average 8 hrs. (dB(A))	77.6		
Lmax (dB(A))		80.0	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450642-1

Page 1 of 1

Sample Number : 2599788-17  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูระบายน้ำไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	78.1	79.6	77.6
07:00 PM - 08:00 PM	78.1	79.1	77.7
08:00 PM - 09:00 PM	78.4	79.3	78.0
09:00 PM - 10:00 PM	78.2	79.3	77.9
10:00 PM - 11:00 PM	78.0	79.1	77.2
11:00 PM - 12:00 AM	78.1	79.0	77.7
12:00 AM - 01:00 AM	77.6	78.7	77.2
01:00 AM - 02:00 AM	77.4	78.4	77.1
Leq Average 8 hrs. (dB(A))	78.0		
Lmax (dB(A))		79.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450643-1

Page 1 of 1

Sample Number : 2599788-18  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูระบายน้ำไฟฟ้า : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Nov 06, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.6	78.5	77.2
03:00 AM - 04:00 AM	77.5	78.6	77.2
04:00 AM - 05:00 AM	77.4	78.3	77.1
05:00 AM - 06:00 AM	77.6	78.5	77.2
06:00 AM - 07:00 AM	77.6	78.9	77.2
07:00 AM - 08:00 AM	77.4	78.4	77.1
08:00 AM - 09:00 AM	77.7	78.9	77.2
09:00 AM - 10:00 AM	77.7	78.9	77.1
Leq Average 8 hrs. (dB(A))	77.6		
Lmax (dB(A))		78.9	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450644-1

Page 1 of 1

Sample Number : 2599788-19  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูระบายน้ำไฟฟ้า : บริเวณ Steam Turbine Generator  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	76.9	78.5	76.8
11:00 AM - 12:00 PM	76.7	77.1	76.6
12:00 PM - 01:00 PM	76.6	77.1	76.5
01:00 PM - 02:00 PM	76.6	78.1	76.3
02:00 PM - 03:00 PM	77.3	82.9	77.1
03:00 PM - 04:00 PM	77.3	78.1	77.1
04:00 PM - 05:00 PM	77.2	78.0	77.0
05:00 PM - 06:00 PM	77.4	79.5	77.2
Leq Average 8 hrs. (dB(A))	77.0		
Lmax (dB(A))		82.9	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client: Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450645-1

Page 1 of 1

Sample Number : 2599788-20  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณประตูระบายน้ำไฟฟ้า : บริเวณ Steam Turbine Generator  
Measurement Date : Nov 03, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	77.7	78.5	77.4
07:00 PM - 08:00 PM	77.3	78.2	77.0
08:00 PM - 09:00 PM	77.3	78.3	77.0
09:00 PM - 10:00 PM	77.4	78.8	77.1
10:00 PM - 11:00 PM	77.0	78.2	76.7
11:00 PM - 12:00 AM	77.0	77.7	76.8
12:00 AM - 01:00 AM	77.6	77.6	76.9
01:00 AM - 02:00 AM	77.0	78.0	76.8
Leq Average 8 hrs. (dB(A))	77.2		
Lmax (dB(A))		78.8	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450646-1

Page 1 of 1

Sample Number : 2599788-21  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆเครื่องกำเนิดไฟฟ้า : ฝาย Steam Turbine Generator  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.0	77.4	76.8
03:00 AM - 04:00 AM	77.0	77.6	76.8
04:00 AM - 05:00 AM	76.9	77.5	76.8
05:00 AM - 06:00 AM	76.9	77.3	76.7
06:00 AM - 07:00 AM	76.9	81.7	76.7
07:00 AM - 08:00 AM	76.9	79.4	76.7
08:00 AM - 09:00 AM	76.9	77.7	76.6
09:00 AM - 10:00 AM	76.9	77.6	76.6
Leq Average 8 hrs. (dB(A))	76.9		
Lmax (dB(A))		81.7	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450647-1

Page 1 of 1

Sample Number : 2599788-22  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆเครื่องกำเนิดไฟฟ้า : ฝาย Steam Turbine Generator  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	76.9	77.5	76.7
11:00 AM - 12:00 PM	76.8	77.3	76.6
12:00 PM - 01:00 PM	76.7	77.2	76.6
01:00 PM - 02:00 PM	76.8	78.1	76.4
02:00 PM - 03:00 PM	77.2	78.1	77.0
03:00 PM - 04:00 PM	77.2	77.9	77.0
04:00 PM - 05:00 PM	77.4	81.1	77.2
05:00 PM - 06:00 PM	77.7	78.4	77.5
Leq Average 8 hrs. (dB(A))	77.1		
Lmax (dB(A))		81.1	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450648-1

Page 1 of 1

Sample Number : 2599788-23  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆเครื่องกำเนิดไฟฟ้า : ฝาย Steam Turbine Generator  
Measurement Date : Nov 04, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 07:00 PM	77.7	78.6	77.5
07:00 PM - 08:00 PM	77.5	78.2	77.3
08:00 PM - 09:00 PM	77.6	78.3	77.4
09:00 PM - 10:00 PM	77.4	78.0	77.2
10:00 PM - 11:00 PM	77.1	77.9	76.9
11:00 PM - 12:00 AM	77.2	78.0	76.9
12:00 AM - 01:00 AM	77.2	77.8	76.9
01:00 AM - 02:00 AM	77.3	78.2	77.0
Leq Average 8 hrs. (dB(A))	77.4		
Lmax (dB(A))		78.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

Chontichak  
Chonticha Subongkuch  
Scientist (3)

Approved by

Supot S  
Supot Salamteh  
Section Head

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14289-4U (EML)

S:\Reports\_Air Noise\pt (2-23)\M



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 18, 2025  
Report Number: 3450649-1

Page 1 of 1

Sample Number : 2599788-24  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆเครื่องกำเนิดไฟฟ้า : ฝาย Steam Turbine Generator  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.3	78.2	77.0
03:00 AM - 04:00 AM	77.2	78.0	77.0
04:00 AM - 05:00 AM	77.2	77.9	77.0
05:00 AM - 06:00 AM	77.2	77.8	77.0
06:00 AM - 07:00 AM	77.2	78.6	77.0
07:00 AM - 08:00 AM	77.2	78.0	76.9
08:00 AM - 09:00 AM	77.2	77.8	76.9
09:00 AM - 10:00 AM	77.0	78.0	76.7
Leq Average 8 hrs. (dB(A))	77.2		
Lmax (dB(A))		78.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

Chontichak  
Chonticha Subongkuch  
Scientist (3)

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14289-4U (EML)

S:\Reports\_Air Noise\pt (11-11)\M



Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450650-1

Page 1 of 1

Sample Number : 2599788-25  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆโรงผลิตไฟฟ้า : บริเวณ Steam Turbine Generator  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	77.2	78.1	77.0
11:00 AM - 12:00 PM	77.2	78.0	76.9
12:00 PM - 01:00 PM	77.2	77.9	76.9
01:00 PM - 02:00 PM	77.2	78.5	76.7
02:00 PM - 03:00 PM	77.3	78.1	77.0
03:00 PM - 04:00 PM	77.2	78.2	77.0
04:00 PM - 05:00 PM	77.4	78.2	77.2
05:00 PM - 06:00 PM	77.5	78.3	77.3
Leq Average 8 hrs. (dB(A))	77.3		
Lmax (dB(A))		78.5	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : วัตถุประสงค์การตรวจสอบคือการตรวจสอบว่าค่าการแผ่รังสีเสียงที่เกิดขึ้นจริงจากแหล่งกำเนิดเสียงในบริเวณรอบๆโรงผลิตไฟฟ้ามีความสอดคล้องกับค่าการแผ่รังสีเสียงที่คำนวณได้จากแบบจำลองหรือไม่			

Technical Management

Chontichak  
Chonticha Subongkuch  
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Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450651-1

Page 1 of 1

Sample Number : 2599788-26  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆโรงผลิตไฟฟ้า : บริเวณ Steam Turbine Generator  
Measurement Date : Nov 05, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
06:00 PM - 07:00 PM	77.5	78.3	77.3
07:00 PM - 08:00 PM	77.3	78.1	77.0
08:00 PM - 09:00 PM	77.3	77.9	77.0
09:00 PM - 10:00 PM	77.4	78.1	77.1
10:00 PM - 11:00 PM	77.2	78.1	76.9
11:00 PM - 12:00 AM	77.2	77.9	77.0
12:00 AM - 01:00 AM	77.2	77.9	77.0
01:00 AM - 02:00 AM	77.2	77.9	76.9
Leq Average 8 hrs. (dB(A))	77.3		
Lmax (dB(A))		78.3	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : วัตถุประสงค์การตรวจสอบคือการตรวจสอบว่าค่าการแผ่รังสีเสียงที่เกิดขึ้นจริงจากแหล่งกำเนิดเสียงในบริเวณรอบๆโรงผลิตไฟฟ้ามีความสอดคล้องกับค่าการแผ่รังสีเสียงที่คำนวณได้จากแบบจำลองหรือไม่			

Technical Management

Chontichak  
Chonticha Subongkuch  
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Approved by

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Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2599788  
Date Received : Nov 10, 2025  
Date Reported : Nov 14, 2025  
Report Number: 3450652-1

Page 1 of 1

Sample Number : 2599788-27  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณรอบๆโรงผลิตไฟฟ้า : บริเวณ Steam Turbine Generator  
Measurement Date : Nov 06, 2025  
Measurement by : Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 AM - 03:00 AM	77.3	78.0	77.0
03:00 AM - 04:00 AM	77.3	78.2	77.0
04:00 AM - 05:00 AM	77.3	78.1	77.0
05:00 AM - 06:00 AM	77.3	78.1	77.0
06:00 AM - 07:00 AM	77.2	78.1	77.0
07:00 AM - 08:00 AM	77.1	78.0	76.9
08:00 AM - 09:00 AM	77.1	77.9	76.9
09:00 AM - 10:00 AM	77.2	77.8	76.9
Leq Average 8 hrs. (dB(A))	77.2		
Lmax (dB(A))		78.2	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : วัตถุประสงค์การตรวจสอบคือการตรวจสอบว่าค่าการแผ่รังสีเสียงที่เกิดขึ้นจริงจากแหล่งกำเนิดเสียงในบริเวณรอบๆโรงผลิตไฟฟ้ามีความสอดคล้องกับค่าการแผ่รังสีเสียงที่คำนวณได้จากแบบจำลองหรือไม่			

Technical Management

Chontichak  
Chonticha Subongkuch  
Scientist (3)

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Supot Salameh  
Section Head

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คุณภาพน้ำทิ้ง



## Analysis / Test Report



TESTING  
No.0042

Lot ID: 2562131

Date Received : Jul 08, 2025

Date Reported : Jul 30, 2025

Report Number : 3346650-1 C15

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210901926

Project Name : Monitoring EIA

Project Location : GNLL2

Sample Number	2562131-1						
Sampled Date	Jul 08, 2025 2:15 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งรวม (Waste water holding pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	30.1	≤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	242	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampled By** : Surawit Naramong ทะเบียนเลขที่ ๖-323-๖-0011 , Samart Khumplinee ทะเบียนเลขที่ ๖-204-๖-0084

### Remark :

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

Technical Management

Jitsupa P.

Jitsupa Pratuangsuk  
Scientist (2)

ทะเบียนเลขที่ ๖-323-๖-0004

Approved by

D. Chongchon

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-0001

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## Analysis / Test Report



TESTING  
No.0042

Lot ID: 2562139

Date Received : Jul 08, 2025

Date Reported : Jul 16, 2025

Report Number : 3346680-1

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210901926

Project Name : Monitoring EIA

Project Location : GNLL2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเบิน (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	20	≤300	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	18	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Rayong

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Chongchon

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 16, 2025  
Report Number : 3346680-1

Page 2 of 2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเบิน (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	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	1960	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	3.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Surawit Narapong โทรเลขที่ ๖-323-๖-0011 , Samart Khumprlee โทรเลขที่ ๖-204-๖-0084

### 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)

โทรเลขที่ ๖-323-๖-0028

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager

โทรเลขที่ ๖-323-๖-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-3

Page 1 of 2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเบิน (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic 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 *	mmol/L	0.002	0.004	5.37	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	1.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	5.16	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	13.6	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Pesticides - Organochlorine Group</b>							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

### Water Testing

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-3

Page 2 of 2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเบิน (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Chlorite *	mg/L	0.05	0.1	0.16	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	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Odour *	-	-	-	Odourless		TIS, 257-2549	Rayong

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

**Sampling By** : Surawit Narapong , 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2565068  
Date Received : Aug 07, 2025  
Date Reported : Aug 15, 2025  
Report Number : 3354436-1

Page 1 of 1

Sample Number	2565068-1						
Sampled Date	Aug 07, 2025 2:22 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งรวม (Waste water holding pond)						
Date Analysis Commenced	Aug 07, 2025						
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	-	7.7	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	-	-	31.1	≤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	400	≤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** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011

**Remark :**

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-ร-0028

Approved by

D. Chongchon

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ร-323-ร-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2565070  
Date Received : Aug 07, 2025  
Date Reported : Aug 15, 2025  
Report Number : 3354437-1

Page 1 of 1

Sample Number 2565070-1  
Sampled Date Aug 07, 2025 2:00 PM  
Sample Description Wastewater  
Location มอพักน้ำพลเรือน (CT blowdown pond)  
Date Analysis Commenced Aug 07, 2025  
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	32.6	≤40	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	2080	≤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	11	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011 , Samart Khumplee ทะเบียนเลขที่ ร-204-ร-0084

### Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-ร-0028

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager

ทะเบียนเลขที่ ร-323-ร-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2565070

Date Received : Aug 07, 2025  
Date Reported : Aug 16, 2025  
Report Number : 3354437-2

Page 1 of 1

Sample Number 2565070-1  
Sampled Date Aug 07, 2025 2:00 PM  
Sample Description Wastewater  
Location มอพักน้ำพลเรือน (CT blowdown pond)  
Date Analysis Commenced Aug 07, 2025  
Condition of Sample Contained in four plastic 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	mmol/L	0.002	0.004	5.30	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	1.48	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	7.01	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	18.3	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	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	7.1	≥ 4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

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

**Sampling By :** Surawit Narapong , Samart Khumplee

### Remark :

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

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Approved by

Savitree N.

Savitree Noisangiam  
Manager

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2582443  
Date Received : Sep 09, 2025  
Date Reported : Sep 16, 2025  
Report Number : 3395346-1

Page 1 of 1

Sample Number 2582443-1  
Sampled Date Sep 09, 2025 2:17 PM  
Sample Description Wastewater  
Location บ่อกักน้ำทิ้งรวม (Waste water holding pond)  
Date Analysis Commenced Sep 09, 2025  
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	27.4	≤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	250	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

#### Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Chongchon

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2582444  
Date Received : Sep 09, 2025  
Date Reported : Nov 07, 2025  
Report Number : 3395347-1 Rev. No.1

Page 1 of 1

Sample Number 2582444-1  
Sampled Date Sep 09, 2025 2:00 PM  
Sample Description Wastewater  
Location บ่อกักน้ำพลัดเบ้น (CT blowdown pond)  
Date Analysis Commenced Sep 09, 2025  
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	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	1800	≤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	8	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Note** : This Analysis test report is reissued to supersede report No.3395347-2, Date Reported : Sep 17, 2025 due to revise guideline/specification

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Samart Khumprlee ทะเบียนเลขที่ ว-204-จ-0084

#### Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Jitsupa P.

Jitsupa Pratuangsuks  
Scientist (2)

ทะเบียนเลขที่ ว-323-จ-0004

Approved by

D. Chongchon

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582444  
Date Received : Sep 09, 2025  
Date Reported : Nov 07, 2025  
Report Number : 3395347-2 Rev. No.1

Page 1 of 1

Sample Number 2582444-1  
Sampled Date Sep 09, 2025 2:00 PM  
Sample Description Wastewater  
Location มลพิษน้ำพลอเดิม (CT blowdown pond)  
Date Analysis Commenced Sep 09, 2025  
Condition of Sample Contained in four plastic 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	mmol/L	0.002	0.004	3.74	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	1.18	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	5.93	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	13.1	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	0.11	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	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

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

**Note** : This Analysis test report is reissued to supersede report No.3395347-2, Date Reported : Sep 17, 2025 due to revise guideline/specification

**Sampling By** : Surawit Narapong , Samart Khumphlee

**Remark :**

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Approved by

Jitsupa P.

Jitsupa Pratuangskul  
Scientist (2)

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0042  
Lot ID: 2591568  
Date Received : Oct 07, 2025  
Date Reported : Oct 16, 2025  
Report Number : 3417254-1

Page 1 of 1

Sample Number 2591568-1  
Sampled Date Oct 07, 2025 2:15 PM  
Sample Description Wastewater  
Location มลพิษน้ำทิ้งรวม (Waste water holding pond)  
Date Analysis Commenced Oct 07, 2025  
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	-	7.2	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	-	-	29.6	≤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	440	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011

**Remark :**

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S.

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-ร-0028

Approved by

D. Khumlee

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ร-323-ร-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042

Lot ID: 2591896  
Date Received : Oct 07, 2025  
Date Reported : Nov 07, 2025  
Report Number : 3445168-1

Page 1 of 1

Sample Number	2591896-1						
Sampled Date	Oct 07, 2025 2:05 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเนิน (CT blowdown pond)						
Date Analysis Commenced	Oct 07, 2025						
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	32.3	≤40	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	1932	≤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	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Note :** This Analysis test report is reissued to supersede report No.3417879-2, Date Reported : Oct 16, 2025 due to revise guideline/specification

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ร-323-จ-0011 , Patchanon Inprik ทะเบียนเลขที่ ร-204-จ-0197

### 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-จ-0028

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager

ทะเบียนเลขที่ ร-323-จ-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2591896

Date Received : Oct 07, 2025  
Date Reported : Nov 07, 2025  
Report Number : 3445168-2

Page 1 of 1

Sample Number	2591896-1						
Sampled Date	Oct 07, 2025 2:05 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเนิน (CT blowdown pond)						
Date Analysis Commenced	Oct 07, 2025						
Condition of Sample	Contained in four plastic 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	mmol/L	0.002	0.004	4.49	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	1.32	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	0.10	6.66	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	16.0	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	0.13	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	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

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

**Note :** This Analysis test report is reissued to supersede report No.3417879-2, Date Reported : Oct 16, 2025 due to revise guideline/specification

**Sampling By :** Surawit Narapong , Patchanon Inprik

### Remark :

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Approved by

Photchana S

Photchana Seeda  
Scientist (4)

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2599789  
Date Received : Nov 11, 2025  
Date Reported : Nov 18, 2025  
Report Number : 3437052-1

Page 1 of 1

Sample Number 2599789-1  
Sampled Date Nov 11, 2025 2:19 PM  
Sample Description Wastewater  
Location บ่อกักน้ำทิ้งรวม (Waste water holding pond)  
Date Analysis Commenced Nov 11, 2025  
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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		-	-	7.8	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	-	-	30.3	≤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	416	≤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	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ว-323-ก-0011

### Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ ว-323-ก-0028

Approved by

D. Chongson

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

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2599794  
Date Received : Nov 11, 2025  
Date Reported : Nov 18, 2025  
Report Number : 3437055-1

Page 1 of 1

Sample Number 2599794-1  
Sampled Date Nov 11, 2025 2:04 PM  
Sample Description Wastewater  
Location บ่อกักน้ำพลัดเบ้น (CT blowdown pond)  
Date Analysis Commenced Nov 11, 2025  
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	32.6	≤40	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	1650	≤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	9	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ว-323-ก-0011 , Samart Khumplee ทะเบียนเลขที่ ว-204-ก-0084

### Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)  
ทะเบียนเลขที่ ว-323-ก-0028

Approved by

D. Chongson

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

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2599794  
Date Received : Nov 11, 2025  
Date Reported : Nov 19, 2025  
Report Number : 3437055-2

Page 1 of 1

Page 2 of 3

Sample Number	2599794-1						
Sampled Date	Nov 11, 2025 2:04 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพลัดเบิน (CT blowdown pond)						
Date Analysis Commenced	Nov 11, 2025						
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	mmol/L	0.002	0.004	4.54	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	1.24	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	5.35	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	12.9	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

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

**Sampling By** : Surawit Narapong , Samart Khumphlee

Remark :  
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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0042  
Lot ID: 25105815  
Date Received : Dec 02, 2025  
Date Reported : Dec 11, 2025  
Report Number : 3452954-1

Page 1 of 1

Sample Number	25105815-1						
Sampled Date	Dec 02, 2025 2:22 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำทิ้งรวม (Waste water holding pond)						
Date Analysis Commenced	Dec 02, 2025						
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	5.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	-	7.9	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	-	-	30.2	≤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	696	≤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** : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

**Sampling By** : Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

*Jitsupa P.*

Jitsupa Pratuangsuk  
Scientist (2)  
ทะเบียนเลขที่ ร-323-ร-0004

Approved by

*D. Jansu.*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-ร-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 25105816  
Date Received : Dec 02, 2025  
Date Reported : Dec 12, 2025  
Report Number : 3452957-1

Page 1 of 1

Sample Number 25105816-1  
Sampled Date Dec 02, 2025 2:05 PM  
Sample Description Wastewater  
Location มลพิษน้ำพลัดเบิน (CT blowdown pond)  
Date Analysis Commenced Dec 02, 2025  
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	33.1	≤40	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	1960	≤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	19	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011 , Samart Khumplee ทะเบียนเลขที่ ร-204-ร-0084

**Remark :**

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchana S

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ร-323-ร-0028

Approved by

D. Chongchon

Dej Chongchon  
Senior Manager

ทะเบียนเลขที่ ร-323-ร-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 25105816  
Date Received : Dec 02, 2025  
Date Reported : Dec 12, 2025  
Report Number : 3452957-2

Page 1 of 1

Sample Number 25105816-1  
Sampled Date Dec 02, 2025 2:05 PM  
Sample Description Wastewater  
Location มลพิษน้ำพลัดเบิน (CT blowdown pond)  
Date Analysis Commenced Dec 02, 2025  
Condition of Sample Contained in four plastic 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	mmol/L	0.002	0.004	4.69	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mmol/L	0.002	0.004	1.55	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	5.19	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mmol/L	0.002	0.004	13.0	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	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	6.9	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

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

**Sampling By :** Surawit Narapong , Samart Khumplee

**Remark :**

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

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## คุณภาพน้ำผิวดิน



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042

Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416103-1

Page 1 of 3

Sample Number	2582445-1						
Sampled Date	Sep 15, 2025 11:55 AM						
Sample Description	Surface water						
Location	สถานีที่ 1 คลองนาบกรรอก เหนือจุดระบายน้ำทิ้งของเขตประกอบการฯ 1 กม.						
Date Analysis Commenced	Sep 15, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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 *	mmol/L	0.002	0.004	0.11	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	0.05	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	1.22	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	0.48	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>							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.12	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
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
Chlorophyll a *	mg/m3	-	1	1.60	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 10200 H	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.7	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042

Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416103-1

Page 2 of 3

Sample Number	2582445-1						
Sampled Date	Sep 15, 2025 11:55 AM						
Sample Description	Surface water						
Location	สถานีที่ 1 คลองนาบกรรอก เหนือจุดระบายน้ำทิ้งของเขตประกอบการฯ 1 กม.						
Date Analysis Commenced	Sep 15, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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>							
Nitrate as N *	mg/L	0.015	0.05	0.50	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.1	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phosphate as P *	mg/L	0.002	0.005	<0.005	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Rayong
Temperature *	Degree C	-	-	29.9	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	88	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	<1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 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

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2



**TESTING**  
**No.0042**  
**Lot ID: 2582445**  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416103-1

Page 3 of 3

**Sampling By :** Surawit Narapong , 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2



**TESTING**  
**No.0042**  
**Lot ID: 2582445**  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416104-1

Page 1 of 2

**Sample Number** 2582445-2  
**Sampled Date** Sep 15, 2025 12:12 PM  
**Sample Description** Surface water  
**Location** สถานีที่ 2 คลองนาบกระลอก จดระบายน้ำทิ้งของเขตประกอบการฯ  
**Date Analysis Commenced** Sep 15, 2025  
**Condition of Sample** Contained in two BOD bottles, one amber glass bottle and six plastic 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 *	mmol/L	0.002	0.004	0.35	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	0.06	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	1.87	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	1.19	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	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Chlorophyll a *	mg/m3	-	1	24.03	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 10200 H	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
Nitrate as N *	mg/L	0.015	0.05	1.03	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416104-1

Page 2 of 2

Sample Number	2582445-2						
Sampled Date	Sep 15, 2025 12:12 PM						
Sample Description	Surface water						
Location	สถานีที่ 2 คลองนาบกรรอก จุดระบายน้ำของเขตประกอบการฯ						
Date Analysis Commenced	Sep 15, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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>							
pH at 25 degree C		-	-	6.9	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phosphate as P *	mg/L	0.002	0.005	0.160	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Rayong
Temperature *	Degree C	-	-	31.4	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	166	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	1.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 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** : Surawit Narapong , 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416104-2

Page 1 of 1

Sample Number	2582445-2						
Sampled Date	Sep 15, 2025 12:12 PM						
Sample Description	Surface water						
Location	สถานีที่ 2 คลองนาบกรรอก จุดระบายน้ำของเขตประกอบการฯ						
Date Analysis Commenced	Sep 16, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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>							
Ammonia Nitrogen	mg/L	0.02	0.05	0.99	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD	mg/L	-	2	6.4	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	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** : Surawit Narapong , Samart Khumphlee

### Remark :

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416105-1

Page 1 of 2

Sample Number	2582445-3
Sampled Date	Sep 15, 2025 12:24 PM
Sample Description	Surface water
Location	สถานีที่ 3 คลองนาบกรอก ท้ายจุดระบายน้ำทิ้งของเขตประกอบการฯ 1.5 กม.
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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 *	mmol/L	0.002	0.004	0.29	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	0.06	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	1.65	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	0.98	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	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Chlorophyll a *	mg/m3	-	1	5.60	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 10200 H	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	1.64	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2



TESTING  
No.0042  
Lot ID: 2582445  
Date Received : Sep 15, 2025  
Date Reported : Sep 30, 2025  
Report Number : 3416105-1

Page 2 of 2

Sample Number	2582445-3
Sampled Date	Sep 15, 2025 12:24 PM
Sample Description	Surface water
Location	สถานีที่ 3 คลองนาบกรอก ท้ายจุดระบายน้ำทิ้งของเขตประกอบการฯ 1.5 กม.
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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>							
pH at 25 degree C	-	-	-	6.9	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phosphate as P *	mg/L	0.002	0.005	0.030	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Rayong
Temperature *	Degree C	-	-	30.5	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	182	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	1.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	43	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 :** Surawit Narapong , Samart Khumplhee

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.
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Photchana Seeda  
Scientist (4)

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.

399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210902378

Project Name : Monitoring EIA

Project Location : GNLL2

Lot ID: 2582445

Date Received : Sep 15, 2025

Date Reported : Oct 02, 2025

Report Number : 3416105-2

Page 1 of 1

Sample Number	2582445-3						
Sampled Date	Sep 15, 2025 12:24 PM						
Sample Description	Surface water						
Location	สถานีที่ 3 คลองนาบกระลอก ตำบลกระหนามน้ำทิ้งเขตชลประทานการฯ 1.5 กม.						
Date Analysis Commenced	Sep 16, 2025						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and six plastic 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>							
Ammonia Nitrogen	mg/L	0.02	0.05	0.94	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (F)	Rayong
BOD	mg/L	-	2	6.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong

**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 :** Surawit Narapong , Samart Khumphlee

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2582446**  
Date Received : Sep 15, 2025  
Date Reported : Sep 22, 2025  
Report Number : 3412346-1

Page 1 of 1

Sample Number	2582446-1						
Sampled Date	Sep 15, 2025 10:39 AM						
Sample Description	Groundwater						
Location	บ่อส่งเหตุการณ์ 1						
Date Analysis Commenced	Sep 15, 2025						
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
<b>Water Testing</b>							
pH at 25 degree C		-	-	4.6	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

**Guideline :** Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างไปเปรียนเทียบผลวิเคราะห์ค่าพีเอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใดก็ตามที่ค่าพีเอชของน้ำใต้ดินในพื้นที่ โดยค่าพีเอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์ของมาตรฐานคุณภาพน้ำบาดาลที่ใช้นิเทศคือ 6.5-9.2

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

**Remark :**

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

Technical Management

**Photchana S**

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

**D. Changchon**

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ท-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**TESTING**  
No.0042  
**Lot ID: 2582446**  
Date Received : Sep 15, 2025  
Date Reported : Sep 22, 2025  
Report Number : 3412346-2

Page 1 of 1

Sample Number	2582446-1						
Sampled Date	Sep 15, 2025 10:39 AM						
Sample Description	Groundwater						
Location	บ่อส่งเหตุการณ์ 1						
Date Analysis Commenced	Sep 15, 2025						
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	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
Dissolved Oxygen *	mg/L	-	0.1	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
Temperature *	Degree C	-	-	30.3	No Standard	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	106	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	<5	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 Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampling By :** Surawit Narapong

**Remark :**

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

**Photchana S**

Photchana Seeda  
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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2582446**  
Date Received : Sep 15, 2025  
Date Reported : Sep 22, 2025  
Report Number : 3412347-1

Page 1 of 1

Sample Number	2582446-2						
Sampled Date	Sep 15, 2025 11:33 AM						
Sample Description	Groundwater						
Location	บ่อส่งเหตุการณ์ 2						
Date Analysis Commenced	Sep 15, 2025						
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
<b>Water Testing</b>							
pH at 25 degree C	-	-	-	4.8	6.5-9.2 (I)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

**Guideline :** Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

(I): ในกรณีที่มีการปนเปื้อนของกรดหรือด่างไปเกินขีดจำกัดค่าที่เอชจากจุดเก็บตัวอย่างบ่อน้ำที่ใดเป็นบ่อน้ำที่ใดทางทิศทางการไหลของน้ำใต้ดินในพื้นที่ โดยค่าที่เอชที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และไม่อยู่นอกช่วงค่าเกณฑ์ของมาตรฐานคุณภาพน้ำบาดาลที่ใช้น้ำบริโภคคือ 6.5-9.2

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

**Remark :**

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

Technical Management

**Photchana S**

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

**D. Changchon**

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ท-0001

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210902378  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2582446**  
Date Received : Sep 15, 2025  
Date Reported : Sep 22, 2025  
Report Number : 3412347-2

Page 1 of 1

Sample Number	2582446-2						
Sampled Date	Sep 15, 2025 11:33 AM						
Sample Description	Groundwater						
Location	บ่อส่งเหตุการณ์ 2						
Date Analysis Commenced	Sep 15, 2025						
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
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	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
Dissolved Oxygen	mg/L	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
Temperature	Degree C	-	-	32.0	No Standard	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	110	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	<5	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 Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

**Sampling By :** Surawit Narapong

**Remark :**

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421191-1

Page 1 of 1

Sample Number : 2582438-1  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Cooling Tower  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:09 AM - 10:09 AM	75.5	76.0	75.4
10:09 AM - 11:09 AM	75.4	76.0	75.3
11:09 AM - 12:09 PM	75.3	75.8	75.2
12:09 PM - 01:09 PM	75.3	75.8	75.2
01:09 PM - 02:09 PM	75.4	75.9	75.3
02:09 PM - 03:09 PM	75.5	76.0	75.4
03:09 PM - 04:09 PM	75.7	76.2	75.5
04:09 PM - 05:09 PM	75.8	76.3	75.6
Leq Average 8 hrs. (dB(A))	75.5		
Lmax (dB(A))		76.3	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

Chontichak  
Chonticha Subongkuch  
Scientist (3)

Approved by

Supot S  
Supot Salamteh  
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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421192-1

Page 1 of 1

Sample Number : 2582438-2  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Boiler Feed Pump  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:59 AM - 09:59 AM	83.3	85.3	82.8
09:59 AM - 10:59 AM	83.6	84.1	83.4
10:59 AM - 11:59 AM	83.5	84.0	83.4
11:59 AM - 12:59 PM	83.9	86.3	83.3
12:59 PM - 01:59 PM	83.7	85.1	83.3
01:59 PM - 02:59 PM	83.6	84.3	83.5
02:59 PM - 03:59 PM	83.7	84.3	83.5
03:59 PM - 04:59 PM	83.8	84.5	83.6
Leq Average 8 hrs. (dB(A))	83.6		
Lmax (dB(A))		86.3	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

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Chonticha Subongkuch  
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Supot Salamteh  
Section Head

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421193-1

Page 1 of 1

Sample Number : 2582438-3  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:59 AM - 09:59 AM	80.5	85.4	80.1
09:59 AM - 10:59 AM	81.0	82.3	80.7
10:59 AM - 11:59 AM	80.7	81.3	80.5
11:59 AM - 12:59 PM	81.1	82.4	80.5
12:59 PM - 01:59 PM	81.0	82.0	80.5
01:59 PM - 02:59 PM	80.9	82.0	80.6
02:59 PM - 03:59 PM	80.8	81.7	80.7
03:59 PM - 04:59 PM	80.8	81.4	80.6
Leq Average 8 hrs. (dB(A))	80.9		
Lmax (dB(A))		85.4	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

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Chonticha Subongkuch  
Scientist (3)

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Supot Salamteh  
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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421194-1

Page 1 of 1

Sample Number : 2582438-4  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:57 AM - 09:57 AM	78.3	80.2	77.7
09:57 AM - 10:57 AM	78.4	79.7	78.0
10:57 AM - 11:57 AM	78.1	79.3	77.7
11:57 AM - 12:57 PM	77.6	78.8	77.1
12:57 PM - 01:57 PM	78.1	79.7	77.6
01:57 PM - 02:57 PM	78.0	79.1	77.6
02:57 PM - 03:57 PM	78.3	80.1	77.8
03:57 PM - 04:57 PM	79.0	80.3	78.5
Leq Average 8 hrs. (dB(A))	78.2		
Lmax (dB(A))		80.3	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบสิ่งแวดล้อม ในการประเมินผลกระทบสิ่งแวดล้อมระดับโครงการและระดับพื้นที่ พ.ศ.๒๕๖๓			

Technical Management

Chontichak  
Chonticha Subongkuch  
Scientist (3)

Approved by

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Supot Salamteh  
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Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421195-1

Page 1 of 1

Sample Number : 2582438-5  
Parameter : Noise (Leq 8 hrs.)  
Location : ฝักรถ Steam Turbine Generator  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:03 AM - 10:03 AM	76.3	77.3	75.9
10:03 AM - 11:03 AM	76.3	77.1	76.1
11:03 AM - 12:03 PM	76.2	77.1	75.9
12:03 PM - 01:03 PM	76.2	77.2	75.8
01:03 PM - 02:03 PM	76.2	77.1	75.9
02:03 PM - 03:03 PM	76.4	77.4	76.2
03:03 PM - 04:03 PM	76.5	77.1	76.3
04:03 PM - 05:03 PM	76.6	77.2	76.4
Leq Average 8 hrs. (dB(A))	76.3		
Lmax (dB(A))		77.4	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : หน่วยงานราชการอุตสาหกรรม หรือ ราชการกรุงเทพมหานคร ในการประเมินค่าการรบกวนทางเสียงและผลกระทบต่อสุขภาพของประชาชน			

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Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 2582438  
Date Received : Sep 30, 2025  
Date Reported : Oct 04, 2025  
Report Number: 3421195-1

Page 1 of 1

Sample Number : 2582438-6  
Parameter : Noise (Leq 8 hrs.)  
Location : ฝักรถ Steam Turbine Lube Oil Skid  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:05 AM - 10:05 AM	75.8	78.1	75.5
10:05 AM - 11:05 AM	75.7	77.7	75.4
11:05 AM - 12:05 PM	75.7	78.0	75.3
12:05 PM - 01:05 PM	75.6	77.6	75.3
01:05 PM - 02:05 PM	75.8	78.0	75.5
02:05 PM - 03:05 PM	75.8	77.8	75.5
03:05 PM - 04:05 PM	76.0	77.3	75.7
04:05 PM - 05:05 PM	76.0	77.5	75.8
Leq Average 8 hrs. (dB(A))	75.8		
Lmax (dB(A))		78.1	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : หน่วยงานราชการอุตสาหกรรม หรือ ราชการกรุงเทพมหานคร ในการประเมินค่าการรบกวนทางเสียงและผลกระทบต่อสุขภาพของประชาชน			

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Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 06, 2025  
Report Number: 3467001-1

Page 1 of 1

Sample Number : 25105799-1  
Parameter : Noise (Leq 8 hrs.)  
Location : ฝักรถ Cooling Tower  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:41 AM - 10:41 AM	78.6	89.2	78.7
10:41 AM - 11:41 AM	78.9	79.3	78.8
11:41 AM - 12:41 PM	78.8	79.2	78.7
12:41 PM - 01:41 PM	78.8	79.2	78.7
01:41 PM - 02:41 PM	78.8	79.2	78.7
02:41 PM - 03:41 PM	79.0	79.5	78.8
03:41 PM - 04:41 PM	79.1	79.6	79.0
04:41 PM - 05:41 PM	79.4	79.8	79.3
Leq Average 8 hrs. (dB(A))	78.9		
Lmax (dB(A))		89.2	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : หน่วยงานราชการอุตสาหกรรม หรือ ราชการกรุงเทพมหานคร ในการประเมินค่าการรบกวนทางเสียงและผลกระทบต่อสุขภาพของประชาชน			

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Analysis / Test Report

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399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 06, 2025  
Report Number: 3467002-1

Page 1 of 1

Sample Number : 25105799-2  
Parameter : Noise (Leq 8 hrs.)  
Location : ฝักรถ Boiler Feed Pump  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:51 AM - 10:51 AM	81.8	90.6	81.4
10:51 AM - 11:51 AM	81.5	82.3	81.3
11:51 AM - 12:51 PM	81.4	81.9	81.2
12:51 PM - 01:51 PM	81.3	81.9	81.1
01:51 PM - 02:51 PM	82.0	83.2	81.7
02:51 PM - 03:51 PM	82.0	83.0	81.8
03:51 PM - 04:51 PM	82.1	82.8	81.8
04:51 PM - 05:51 PM	82.2	82.8	82.0
Leq Average 8 hrs. (dB(A))	81.8		
Lmax (dB(A))		90.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : หน่วยงานราชการอุตสาหกรรม หรือ ราชการกรุงเทพมหานคร ในการประเมินค่าการรบกวนทางเสียงและผลกระทบต่อสุขภาพของประชาชน			

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## Analysis / Test Report

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P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 08, 2025  
Report Number: 3467000-1

Page 1 of 1

Sample Number : 25105799-3  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Gas Turbine Accessories System 1  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:32 AM - 10:32 AM	79.5	84.5	79.3
10:32 AM - 11:32 AM	79.4	80.2	79.2
11:32 AM - 12:32 PM	79.3	80.1	79.1
12:32 PM - 01:32 PM	79.2	80.2	78.9
01:32 PM - 02:32 PM	79.6	80.7	79.5
02:32 PM - 03:32 PM	79.8	80.8	79.5
03:32 PM - 04:32 PM	79.9	80.8	79.6
04:32 PM - 05:32 PM	79.9	80.8	79.7
Leq Average 8 hrs. (dB(A))	79.6		
Lmax (dB(A))		84.5	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบสิ่งแวดล้อมการวัดและประเมินผลกระทบทางเสียง พ.ศ.๒๕๖๓			

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## Analysis / Test Report

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P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 08, 2025  
Report Number: 3467000-1

Page 1 of 1

Sample Number : 25105799-4  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Gas Turbine Accessories System 2  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:32 AM - 10:32 AM	77.1	82.8	76.8
10:32 AM - 11:32 AM	77.4	78.9	76.9
11:32 AM - 12:32 PM	77.7	78.8	77.3
12:32 PM - 01:32 PM	77.7	78.8	77.2
01:32 PM - 02:32 PM	77.6	78.8	77.1
02:32 PM - 03:32 PM	77.6	78.8	77.2
03:32 PM - 04:32 PM	77.6	78.9	77.3
04:32 PM - 05:32 PM	78.1	79.5	77.4
Leq Average 8 hrs. (dB(A))	77.6		
Lmax (dB(A))		82.8	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบสิ่งแวดล้อมการวัดและประเมินผลกระทบทางเสียง พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
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P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 08, 2025  
Report Number: 3467000-1

Page 1 of 1

Sample Number : 25105799-5  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Steam Turbine Generator  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:40 AM - 10:40 AM	77.7	79.9	77.5
10:40 AM - 11:40 AM	77.4	77.9	77.2
11:40 AM - 12:40 PM	77.2	78.0	77.1
12:40 PM - 01:40 PM	77.2	78.2	77.0
01:40 PM - 02:40 PM	77.5	78.4	77.3
02:40 PM - 03:40 PM	77.6	78.4	77.4
03:40 PM - 04:40 PM	77.6	78.5	77.4
04:40 PM - 05:40 PM	78.0	78.7	77.8
Leq Average 8 hrs. (dB(A))	77.5		
Lmax (dB(A))		79.9	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบสิ่งแวดล้อมการวัดและประเมินผลกระทบทางเสียง พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNL12

Lot ID: 25105799  
Date Received : Dec 03, 2025  
Date Reported : Dec 08, 2025  
Report Number: 3467000-1

Page 1 of 1

Sample Number : 25105799-6  
Parameter : Noise (Leq 8 hrs.)  
Location : บริเวณ Steam Turbine Lube Oil Skid  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:31 AM - 10:31 AM	75.5	78.6	74.9
10:31 AM - 11:31 AM	75.3	78.6	74.7
11:31 AM - 12:31 PM	74.9	77.0	74.5
12:31 PM - 01:31 PM	74.9	77.0	74.6
01:31 PM - 02:31 PM	75.1	77.9	74.7
02:31 PM - 03:31 PM	75.3	78.1	74.8
03:31 PM - 04:31 PM	75.1	77.1	74.9
04:31 PM - 05:31 PM	75.3	78.0	75.0
Leq Average 8 hrs. (dB(A))	75.2		
Lmax (dB(A))		78.6	
Standard (dB(A))	90	140	
Reference Method : ISO 1996-1 : 2016			
Standard : ประเทศไทยมาตรฐานการวัดและประเมินผลกระทบทางเสียง ในการประเมินผลกระทบสิ่งแวดล้อมการวัดและประเมินผลกระทบทางเสียง พ.ศ.๒๕๖๓			

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120.  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582441  
Date Received : Sep 30, 2025  
Date Reported : Oct 02, 2025  
Report Number: 3395344-1

Page 1 of 4

Sample Number : 2582441-1  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo  
Location : โรงคัดบรรจุ 1 พื้น (โต๊ะ-พลาสติก โรงคัดบรรจุ :- - วนรอบ :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงคัดบรรจุ Exhaust Unit	120	27.7	25.9	31.8	31.5
Average (WBGT)		27.7			
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 NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120.  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582441  
Date Received : Sep 30, 2025  
Date Reported : Oct 02, 2025  
Report Number: 3395344-1

Page 2 of 4

Sample Number : 2582441-2  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo  
Location : โรงคัดบรรจุ 1 พื้น (โต๊ะ-พลาสติก โรงคัดบรรจุ :- - วนรอบ :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงคัดบรรจุ Exhaust Unit	120	28.5	26.2	33.8	32.6
Average (WBGT)		28.5			
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 NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120.  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582441  
Date Received : Sep 30, 2025  
Date Reported : Oct 02, 2025  
Report Number: 3395344-1

Page 3 of 4

Sample Number : 2582441-3  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo  
Location : โรงคัดบรรจุ 1 พื้น (โต๊ะ-พลาสติก โรงคัดบรรจุ :- - วนรอบ :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงคัดบรรจุ Generator	120	28.8	26.4	34.5	32.8
Average (WBGT)		28.8			
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

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P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2582441  
Date Received : Sep 30, 2025  
Date Reported : Oct 02, 2025  
Report Number: 3395344-1

Page 4 of 4

Sample Number : 2582441-4  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Sep 29, 2025  
Measurement by : Nattakarn Vonginyoo  
Location : โรงคัดบรรจุ 1 พื้น (โต๊ะ-พลาสติก โรงคัดบรรจุ :- - วนรอบ :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
โรงคัดบรรจุ Gas Turbine	120	28.5	26.3	33.6	32.0
Average (WBGT)		28.5			
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

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Supot Salamteb  
Section Head

Approved by

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14089-41 / EN43

5 (Report)\_Air Heat.pdf (2.229Kb)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 25105800  
Date Received : Dec 03, 2025  
Date Reported : Jan 13, 2026  
Report Number: 3487236-1

Page 1 of 4

Sample Number : 25105800-1  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun  
Location : ปล่องควัน 1 กังพล (เตา-บราวนี่ ควันปล่องควัน : - นาน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Condenser Exhaust Unit	120	29.2	25.7	37.5	36.6
Average (WBGT)		29.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

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2: Report/ Air Heat (p/ 11:18:44)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 25105800  
Date Received : Dec 03, 2025  
Date Reported : Jan 13, 2026  
Report Number: 3487236-1

Page 2 of 4

Sample Number : 25105800-2  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun  
Location : ปล่องควัน 1 กังพล (เตา-บราวนี่ ควันปล่องควัน : - นาน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Condenser Exhaust Unit	120	28.9	25.5	37.0	36.4
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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2: Report/ Air Heat (p/ 11:18:44)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 25105800  
Date Received : Dec 03, 2025  
Date Reported : Jan 13, 2026  
Report Number: 3487236-1

Page 3 of 4

Sample Number : 25105800-3  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun  
Location : ปล่องควัน 1 กังพล (เตา-บราวนี่ ควันปล่องควัน : - นาน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Gas Generator	120	29.4	27.2	34.8	34.2
Average (WBGT)		29.4			
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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2: Report/ Air Heat (p/ 11:18:44)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210902378  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 25105800  
Date Received : Dec 03, 2025  
Date Reported : Jan 13, 2026  
Report Number: 3487236-1

Page 4 of 4

Sample Number : 25105800-4  
Parameter : Heat Stress (Sampling Time : 09:00 AM - 11:00 AM)  
Measurement Date : Dec 03, 2025  
Measurement by : Chanon Booncheun  
Location : ปล่องควัน 1 กังพล (เตา-บราวนี่ ควันปล่องควัน : - นาน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปล่อง Gas Turbine	120	27.0	24.5	33.1	32.7
Average (WBGT)		27.0			
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

### Note:

This Analysis test report is reissued to supersede report No.3452943-1, Date Reported : Dec 08, 2025 due to revise analytical information.

Technical Management

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ระดับความเข้มของแสง



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (1)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (1)-1

Page 1 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Administration Building : Ground Floor : Copy Machine	2582442 (1)-1	29-Sep-25	Day time	1	476	-	300-400	-	Pass
		2582442 (1)-2	29-Sep-25	Night time	1	469	-	300-400	-	Pass
2	Area : Administration Building : Ground Floor : Document Room	2582442 (1)-3	29-Sep-25	Day time	1	529	492	150	300	Pass
		2582442 (1)-4	29-Sep-25	Day time	2	454	-	-	-	Pass
		2582442 (1)-5	29-Sep-25	Night time	1	473	453	150	300	Pass
		2582442 (1)-6	29-Sep-25	Night time	2	433	-	-	-	Pass
3	Area : Administration Building : Ground Floor : Electrical Control Room	2582442 (1)-7	29-Sep-25	Day time	1	632	556	100	200	Pass
		2582442 (1)-8	29-Sep-25	Day time	2	479	-	-	-	Pass
		2582442 (1)-9	29-Sep-25	Night time	1	684	594	100	200	Pass
		2582442 (1)-10	29-Sep-25	Night time	2	503	-	-	-	Pass
4	Spot : Administration Building : Ground Floor : Environment Health & Safety Manager Room	2582442 (1)-11	29-Sep-25	Day time	1	442	-	400-500	-	Pass
		2582442 (1)-12	29-Sep-25	Night time	1	462	-	400-500	-	Pass
5	Area : Administration Building : Ground Floor : First Aid Room	2582442 (1)-13	29-Sep-25	Day time	1	810	738	150	300	Pass
		2582442 (1)-14	29-Sep-25	Day time	2	665	-	-	-	Pass
		2582442 (1)-15	29-Sep-25	Night time	1	574	622	150	300	Pass
		2582442 (1)-16	29-Sep-25	Night time	2	669	-	-	-	Pass
6	Spot : Administration Building : Ground Floor : Human resource & Admin Manager Room	2582442 (1)-17	29-Sep-25	Day time	1	507	-	400-500	-	Pass
		2582442 (1)-18	29-Sep-25	Night time	1	444	-	400-500	-	Pass
7	Area : Administration Building : Ground Floor : Meeting Room 1	2582442 (1)-19	29-Sep-25	Day time	1	810	344	150	300	Pass
		2582442 (1)-20	29-Sep-25	Day time	2	211	-	-	-	Pass
		2582442 (1)-21	29-Sep-25	Day time	3	557	-	-	-	Pass
		2582442 (1)-22	29-Sep-25	Day time	4	417	-	-	-	Pass
		2582442 (1)-23	29-Sep-25	Day time	5	314	-	-	-	Pass
		2582442 (1)-24	29-Sep-25	Day time	6	222	-	-	-	Pass
		2582442 (1)-25	29-Sep-25	Night time	1	288	325	150	300	Pass
		2582442 (1)-26	29-Sep-25	Night time	2	358	-	-	-	Pass
		2582442 (1)-27	29-Sep-25	Night time	3	270	-	-	-	Pass
		2582442 (1)-28	29-Sep-25	Night time	4	295	-	-	-	Pass
		2582442 (1)-29	29-Sep-25	Night time	5	412	-	-	-	Pass
		2582442 (1)-30	29-Sep-25	Night time	6	328	-	-	-	Pass

Technical Management

Supot Salameh  
Section Head

Approved by

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (1)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (1)-1

Page 2 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
8	Area : Administration Building : Ground Floor : Meeting Room 2	2582442 (1)-31	29-Sep-25	Day time	1	275	444	150	300	Pass
		2582442 (1)-32	29-Sep-25	Day time	2	331	-	-	-	Pass
		2582442 (1)-33	29-Sep-25	Day time	3	365	-	-	-	Pass
		2582442 (1)-34	29-Sep-25	Day time	4	499	-	-	-	Pass
		2582442 (1)-35	29-Sep-25	Day time	5	688	-	-	-	Pass
		2582442 (1)-36	29-Sep-25	Day time	6	507	-	-	-	Pass
		2582442 (1)-37	29-Sep-25	Day time	7	583	-	-	-	Pass
		2582442 (1)-38	29-Sep-25	Day time	8	308	-	-	-	Pass
		2582442 (1)-39	29-Sep-25	Night time	1	380	318	150	300	Pass
		2582442 (1)-40	29-Sep-25	Night time	2	339	-	-	-	Pass
		2582442 (1)-41	29-Sep-25	Night time	3	339	-	-	-	Pass
		2582442 (1)-42	29-Sep-25	Night time	4	256	-	-	-	Pass
		2582442 (1)-43	29-Sep-25	Night time	5	222	-	-	-	Pass
		2582442 (1)-44	29-Sep-25	Night time	6	335	-	-	-	Pass
		2582442 (1)-45	29-Sep-25	Night time	7	312	-	-	-	Pass
		2582442 (1)-46	29-Sep-25	Night time	8	360	-	-	-	Pass
9	Area : Administration Building : Ground Floor : Pantry Room	2582442 (1)-47	29-Sep-25	Day time	1	1,986	1094	150	300	Pass
		2582442 (1)-48	29-Sep-25	Day time	2	881	-	-	-	Pass
		2582442 (1)-49	29-Sep-25	Day time	3	810	-	-	-	Pass
		2582442 (1)-50	29-Sep-25	Day time	4	700	-	-	-	Pass
		2582442 (1)-51	29-Sep-25	Night time	1	412	451	150	300	Pass
		2582442 (1)-52	29-Sep-25	Night time	2	475	-	-	-	Pass
		2582442 (1)-53	29-Sep-25	Night time	3	364	-	-	-	Pass
		2582442 (1)-54	29-Sep-25	Night time	4	554	-	-	-	Pass
10	Spot : Administration Building : Ground Floor : Plant manager Room	2582442 (1)-55	29-Sep-25	Day time	1	542	-	400-500	-	Pass
		2582442 (1)-56	29-Sep-25	Night time	1	588	-	400-500	-	Pass

Technical Management

Supot Salameh  
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Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (1)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (1)-1

Page 3 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Administration Building : Ground Floor : Reception Area	2582442 (1)-57	29-Sep-25	Day time	1	525	646	50	100	Pass
		2582442 (1)-58	29-Sep-25	Day time	2	628	-	-	-	Pass
		2582442 (1)-59	29-Sep-25	Day time	3	867	-	-	-	Pass
		2582442 (1)-60	29-Sep-25	Day time	4	254	-	-	-	Pass
		2582442 (1)-61	29-Sep-25	Day time	5	507	-	-	-	Pass
		2582442 (1)-62	29-Sep-25	Day time	6	1,097	-	-	-	Pass
		2582442 (1)-63	29-Sep-25	Night time	1	351	292	50	100	Pass
		2582442 (1)-64	29-Sep-25	Night time	2	316	-	-	-	Pass
		2582442 (1)-65	29-Sep-25	Night time	3	286	-	-	-	Pass
		2582442 (1)-66	29-Sep-25	Night time	4	267	-	-	-	Pass
		2582442 (1)-67	29-Sep-25	Night time	5	201	-	-	-	Pass
		2582442 (1)-68	29-Sep-25	Night time	6	331	-	-	-	Pass
12	Area : Administration Building : Ground Floor : Server Room	2582442 (1)-69	29-Sep-25	Day time	1	326	293	100	200	Pass
		2582442 (1)-70	29-Sep-25	Day time	2	260	-	-	-	Pass
		2582442 (1)-71	29-Sep-25	Night time	1	367	340	100	200	Pass
		2582442 (1)-72	29-Sep-25	Night time	2	312	-	-	-	Pass
13	Area : Administration Building : Ground Floor : Utility Room	2582442 (1)-73	29-Sep-25	Day time	1	583	496	50	100	Pass
		2582442 (1)-74	29-Sep-25	Day time	2	412	-	-	-	Pass
		2582442 (1)-75	29-Sep-25	Night time	1	490	418	50	100	Pass
		2582442 (1)-76	29-Sep-25	Night time	2	347	-	-	-	Pass
14	Spot : Administration Building : Ground Floor : Tels Spare 1	2582442 (1)-77	29-Sep-25	Day time	1	528	-	400-500	-	Pass
		2582442 (1)-78	29-Sep-25	Night time	1	431	-	400-500	-	Pass
15	Spot : Administration Building : Ground Floor : Tels Spare 2	2582442 (1)-79	29-Sep-25	Day time	1	506	-	400-500	-	Pass
		2582442 (1)-80	29-Sep-25	Night time	1	507	-	400-500	-	Pass
16	Spot : Administration Building : Ground Floor : Tels Spare 3	2582442 (1)-81	29-Sep-25	Day time	1	613	-	400-500	-	Pass
		2582442 (1)-82	29-Sep-25	Night time	1	431	-	400-500	-	Pass
17	Spot : Administration Building : Ground Floor : Tels Spare 4	2582442 (1)-83	29-Sep-25	Day time	1	606	-	400-500	-	Pass
		2582442 (1)-84	29-Sep-25	Night time	1	568	-	400-500	-	Pass

Technical Management

Supot Salameh  
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Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (1)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (1)-1

Page 4 of 4

GVLL2										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
18	Area : Administration Building : Ground Floor : <span>ชั้นล่าง</span>	2582442 (1)-85	29-Sep-25	Day time	1	692	672	50	100	Pass
		2582442 (1)-86	29-Sep-25	Day time	2	551				Pass
		2582442 (1)-87	29-Sep-25	Day time	3	773				Pass
		2582442 (1)-88	29-Sep-25	Night time	1	487	534	50	100	Pass
		2582442 (1)-89	29-Sep-25	Night time	2	535				
		2582442 (1)-90	29-Sep-25	Night time	3	581				
19	Area : Administration Building : Ground Floor : <span>ชั้นล่าง</span>	2582442 (1)-91	29-Sep-25	Day time	1	796	751	50	100	Pass
		2582442 (1)-92	29-Sep-25	Day time	2	812				Pass
		2582442 (1)-93	29-Sep-25	Day time	3	644				Pass
		2582442 (1)-94	29-Sep-25	Night time	1	459	542	50	100	Pass
		2582442 (1)-95	29-Sep-25	Night time	2	714				
		2582442 (1)-96	29-Sep-25	Night time	3	454				



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (2)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (2)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : 1st Floor : MCC Switchgear	2582442 (2)-1	29-Sep-25	Day time	1	361	400	100	200	Pass
		2582442 (2)-2	29-Sep-25	Day time	2	610				
		2582442 (2)-3	29-Sep-25	Day time	3	373				
		2582442 (2)-4	29-Sep-25	Day time	4	421				
		2582442 (2)-5	29-Sep-25	Day time	5	265				
		2582442 (2)-6	29-Sep-25	Day time	6	302				
		2582442 (2)-7	29-Sep-25	Day time	7	386				
		2582442 (2)-8	29-Sep-25	Day time	8	402				
		2582442 (2)-9	29-Sep-25	Day time	9	222				
		2582442 (2)-10	29-Sep-25	Day time	10	513				
		2582442 (2)-11	29-Sep-25	Day time	11	406				
		2582442 (2)-12	29-Sep-25	Day time	12	470				
		2582442 (2)-13	29-Sep-25	Day time	13	585				
		2582442 (2)-14	29-Sep-25	Day time	14	412				
		2582442 (2)-15	29-Sep-25	Day time	15	353				
		2582442 (2)-16	29-Sep-25	Day time	16	260				
		2582442 (2)-17	29-Sep-25	Day time	17	438				
		2582442 (2)-18	29-Sep-25	Day time	18	416				
		2582442 (2)-19	29-Sep-25	Night time	1	391		367	100	Pass
		2582442 (2)-20	29-Sep-25	Night time	2	637				
		2582442 (2)-21	29-Sep-25	Night time	3	355				
		2582442 (2)-22	29-Sep-25	Night time	4	316				
		2582442 (2)-23	29-Sep-25	Night time	5	248				
		2582442 (2)-24	29-Sep-25	Night time	6	306				
		2582442 (2)-25	29-Sep-25	Night time	7	381				
		2582442 (2)-26	29-Sep-25	Night time	8	538				
		2582442 (2)-27	29-Sep-25	Night time	9	229				
		2582442 (2)-28	29-Sep-25	Night time	10	493				
		2582442 (2)-29	29-Sep-25	Night time	11	269				
		2582442 (2)-30	29-Sep-25	Night time	12	413				
		2582442 (2)-31	29-Sep-25	Night time	13	640				
		2582442 (2)-32	29-Sep-25	Night time	14	312				
		2582442 (2)-33	29-Sep-25	Night time	15	311				
		2582442 (2)-34	29-Sep-25	Night time	16	289				
		2582442 (2)-35	29-Sep-25	Night time	17	324				
		2582442 (2)-36	29-Sep-25	Night time	18	357				

Measurement by : Nattakarn Vongyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

*Nichan Chornarat*  
Wichan Chornarat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (3)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (3)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : 2nd Floor : Pantry Room	2582442 (3)-1	29-Sep-25	Day time	1	1,476	1206	150	300	Pass
		2582442 (3)-2	29-Sep-25	Day time	2	936				
		2582442 (3)-3	29-Sep-25	Night time	1	860				
		2582442 (3)-4	29-Sep-25	Night time	2	616				
2	Spot : Control Building : 2nd Floor : DCS Room : มหะการควบคุม	2582442 (3)-5	29-Sep-25	Day time	1	706	-	200-300	-	Pass
		2582442 (3)-6	29-Sep-25	Night time	1	739				
3	Spot : Control Building : 2nd Floor : Utility Room : มหะการควบคุม	2582442 (3)-7	29-Sep-25	Day time	1	689	-	200-300	-	Pass
		2582442 (3)-8	29-Sep-25	Night time	1	690				
4	Spot : Control Building : 2nd Floor : Tals Daytime 1	2582442 (3)-9	29-Sep-25	Day time	1	503	-	400-500	-	Pass
		2582442 (3)-10	29-Sep-25	Night time	1	590				
5	Spot : Control Building : 2nd Floor : Tals Daytime 2	2582442 (3)-11	29-Sep-25	Day time	1	507	-	400-500	-	Pass
		2582442 (3)-12	29-Sep-25	Night time	1	710				
6	Spot : Control Building : 2nd Floor : Tals Operation manager	2582442 (3)-13	29-Sep-25	Day time	1	1,062	-	400-500	-	Pass
		2582442 (3)-14	29-Sep-25	Day time	2	1,083				
		2582442 (3)-15	29-Sep-25	Day time	3	953				
7	Spot : Control Building : 2nd Floor : Tals มหะการควบคุม DCS 1	2582442 (3)-16	29-Sep-25	Night time	1	995	-	400-500	-	Pass
		2582442 (3)-17	29-Sep-25	Day time	1	507				
8	Spot : Control Building : 2nd Floor : Tals มหะการควบคุม DCS 2	2582442 (3)-18	29-Sep-25	Night time	1	705	-	400-500	-	Pass
		2582442 (3)-19	29-Sep-25	Day time	1	702				
9	Spot : Control Building : 2nd Floor : Tals มหะการควบคุม 1	2582442 (3)-20	29-Sep-25	Night time	1	859	-	400-500	-	Pass
		2582442 (3)-21	29-Sep-25	Day time	1	855				
10	Spot : Control Building : 2nd Floor : Tals มหะการควบคุม 2	2582442 (3)-22	29-Sep-25	Night time	1	678	-	400-500	-	Pass
		2582442 (3)-23	29-Sep-25	Day time	1	755				
11	Spot : Control Building : 2nd Floor : Tals มหะการควบคุม 3	2582442 (3)-24	29-Sep-25	Night time	1	616	-	400-500	-	Pass
		2582442 (3)-25	29-Sep-25	Day time	1	755				

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

*Nichan Chornarat*  
Wichan Chornarat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (3)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (3)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Control Building : 2nd Floor : vtae มหะการควบคุม	2582442 (3)-25	29-Sep-25	Day time	1	318	547	50	100	Pass
		2582442 (3)-26	29-Sep-25	Day time	2	351				
		2582442 (3)-27	29-Sep-25	Day time	3	866				
		2582442 (3)-28	29-Sep-25	Day time	4	970				
		2582442 (3)-29	29-Sep-25	Day time	5	413				
		2582442 (3)-30	29-Sep-25	Day time	6	364				
		2582442 (3)-31	29-Sep-25	Night time	1	244		242	50	Pass
		2582442 (3)-32	29-Sep-25	Night time	2	237				
		2582442 (3)-33	29-Sep-25	Night time	3	210				
		2582442 (3)-34	29-Sep-25	Night time	4	270				
		2582442 (3)-35	29-Sep-25	Night time	5	251				
		2582442 (3)-36	29-Sep-25	Night time	6	237				

Measurement by : Nattakarn Vongyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (4)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (4)-1

Page 1 of 1

GVLL2										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : Gas metering station : Gas metering Control Room	2582442 (4)-1	29-Sep-25	Day time	1	507	504	100	200	Pass
		2582442 (4)-2	29-Sep-25	Day time	2	502				
		2582442 (4)-3	29-Sep-25	Night time	1	504	504	100	200	Pass
		2582442 (4)-4	29-Sep-25	Night time	2	503				
2	Area : Control Building : Gas metering station : Storage Room	2582442 (4)-5	29-Sep-25	Day time	1	669	706	50	100	Pass
		2582442 (4)-6	29-Sep-25	Day time	2	743				
		2582442 (4)-7	29-Sep-25	Night time	1	705	730	50	100	Pass
		2582442 (4)-8	29-Sep-25	Night time	2	754				



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (5)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (5)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Guard House : Gas rln.	2582442 (5)-1	29-Sep-25	Day time	1	998	-	-	100	Pass
		2582442 (5)-2	29-Sep-25	Day time	2	974	-	-	-	-
		2582442 (5)-3	29-Sep-25	Night time	1	566	-	-	100	Pass
		2582442 (5)-4	29-Sep-25	Night time	2	613	-	-	-	-

Measurement by : Nattakarn Vongyino

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*  
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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (6)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (6)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Substation Building : Substation Room	2582442 (6)-1	29-Sep-25	Day time	1	2,820	1093	100	200	Pass
		2582442 (6)-2	29-Sep-25	Day time	2	814	-	-	-	-
		2582442 (6)-3	29-Sep-25	Day time	3	927	-	-	-	-
		2582442 (6)-4	29-Sep-25	Day time	4	1,010	-	-	-	-
		2582442 (6)-5	29-Sep-25	Day time	5	757	-	-	-	-
		2582442 (6)-6	29-Sep-25	Day time	6	755	-	-	-	-
		2582442 (6)-7	29-Sep-25	Day time	7	570	-	-	-	-
		2582442 (6)-8	29-Sep-25	Night time	1	367	538	100	200	Pass
		2582442 (6)-9	29-Sep-25	Night time	2	412	-	-	-	-
		2582442 (6)-10	29-Sep-25	Night time	3	669	-	-	-	-
		2582442 (6)-11	29-Sep-25	Night time	4	488	-	-	-	-
		2582442 (6)-12	29-Sep-25	Night time	5	710	-	-	-	-
		2582442 (6)-13	29-Sep-25	Night time	6	729	-	-	-	-
		2582442 (6)-14	29-Sep-25	Night time	7	391	-	-	-	-
2	Area : Substation Building : Switchgear Room	2582442 (6)-15	29-Sep-25	Day time	1	388	777	100	200	Pass
		2582442 (6)-16	29-Sep-25	Day time	2	462	-	-	-	-
		2582442 (6)-17	29-Sep-25	Day time	3	694	-	-	-	-
		2582442 (6)-18	29-Sep-25	Day time	4	1,156	-	-	-	-
		2582442 (6)-19	29-Sep-25	Day time	5	987	-	-	-	-
		2582442 (6)-20	29-Sep-25	Night time	1	454	538	100	200	Pass
		2582442 (6)-21	29-Sep-25	Night time	2	632	-	-	-	-
		2582442 (6)-22	29-Sep-25	Night time	3	648	-	-	-	-
		2582442 (6)-23	29-Sep-25	Night time	4	643	-	-	-	-
		2582442 (6)-24	29-Sep-25	Night time	5	312	-	-	-	-
3	Area : Substation Building : Terminal Sub	2582442 (6)-25	29-Sep-25	Day time	1	349	595	100	200	Pass
		2582442 (6)-26	29-Sep-25	Day time	2	546	-	-	-	-
		2582442 (6)-27	29-Sep-25	Day time	3	646	-	-	-	-
		2582442 (6)-28	29-Sep-25	Day time	4	839	-	-	-	-
		2582442 (6)-29	29-Sep-25	Night time	1	407	533	100	200	Pass
		2582442 (6)-30	29-Sep-25	Night time	2	595	-	-	-	-
		2582442 (6)-31	29-Sep-25	Night time	3	628	-	-	-	-
		2582442 (6)-32	29-Sep-25	Night time	4	501	-	-	-	-

Measurement by : Nattakarn Vongyino

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

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

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Wichan Chornharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (7)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (7)-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 : Water Treatment Control Building Ground Floor : Laboratory Room : 145% pH	2582442 (7)-1	29-Sep-25	Day time	1	811	-	400-500	-	Pass
		2582442 (7)-2	29-Sep-25	Night time	1	558	-	400-500	-	Pass
2	Area : Water Treatment Control Building Ground Floor : WTP Control Room	2582442 (7)-3	29-Sep-25	Day time	1	937	866	100	200	Pass
		2582442 (7)-4	29-Sep-25	Day time	2	830	-	-	-	-
		2582442 (7)-5	29-Sep-25	Day time	3	917	-	-	-	-
		2582442 (7)-6	29-Sep-25	Day time	4	781	-	-	-	-
		2582442 (7)-7	29-Sep-25	Day time	5	863	-	-	-	-
		2582442 (7)-8	29-Sep-25	Night time	1	811	718	100	200	Pass
		2582442 (7)-9	29-Sep-25	Night time	2	607	-	-	-	-
		2582442 (7)-10	29-Sep-25	Night time	3	543	-	-	-	-
		2582442 (7)-11	29-Sep-25	Night time	4	743	-	-	-	-
		2582442 (7)-12	29-Sep-25	Night time	5	888	-	-	-	-
3	Spot : Water Treatment Control Building Ground Floor : 145% Chemist	2582442 (7)-13	29-Sep-25	Day time	1	952	-	400-500	-	Pass
		2582442 (7)-14	29-Sep-25	Night time	1	679	-	400-500	-	Pass

Measurement by : Nattakarn Vongyino

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

Technical Management

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (8)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (8)-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 : Workshop Building : 1st Floor : Copy Machine	2582442 (8)-1	29-Sep-25	Day time	1	584	-	300-400	-	Pass
		2582442 (8)-2	29-Sep-25	Night time	1	629	-	300-400	-	Pass
2	Area : Workshop Building : 1st Floor : Document Room	2582442 (8)-3	29-Sep-25	Day time	1	451	560	150	300	Pass
		2582442 (8)-4	29-Sep-25	Day time	2	470	-	-	-	-
		2582442 (8)-5	29-Sep-25	Night time	1	317	308	150	300	Pass
		2582442 (8)-6	29-Sep-25	Night time	2	298	-	-	-	-
3	Area : Workshop Building : 1st Floor : Meeting Room	2582442 (8)-7	29-Sep-25	Day time	1	435	356	150	300	Pass
		2582442 (8)-8	29-Sep-25	Day time	2	399	-	-	-	-
		2582442 (8)-9	29-Sep-25	Day time	3	296	-	-	-	-
		2582442 (8)-10	29-Sep-25	Day time	4	173	-	-	-	-
		2582442 (8)-11	29-Sep-25	Day time	5	466	-	-	-	-
		2582442 (8)-12	29-Sep-25	Day time	6	316	-	-	-	-
		2582442 (8)-13	29-Sep-25	Day time	7	494	-	-	-	-
		2582442 (8)-14	29-Sep-25	Day time	8	267	-	-	-	-
		2582442 (8)-15	29-Sep-25	Night time	1	392	315	150	300	Pass
		2582442 (8)-16	29-Sep-25	Night time	2	310	-	-	-	-
		2582442 (8)-17	29-Sep-25	Night time	3	307	-	-	-	-
		2582442 (8)-18	29-Sep-25	Night time	4	306	-	-	-	-
		2582442 (8)-19	29-Sep-25	Night time	5	312	-	-	-	-
		2582442 (8)-20	29-Sep-25	Night time	6	295	-	-	-	-
		2582442 (8)-21	29-Sep-25	Night time	7	298	-	-	-	-
		2582442 (8)-22	29-Sep-25	Night time	8	302	-	-	-	-
4	Area : Workshop Building : 1st Floor : Pantry Room	2582442 (8)-23	29-Sep-25	Day time	1	471	550	150	300	Pass
		2582442 (8)-24	29-Sep-25	Day time	2	583	-	-	-	-
		2582442 (8)-25	29-Sep-25	Day time	3	540	-	-	-	-
		2582442 (8)-26	29-Sep-25	Day time	4	607	-	-	-	-
		2582442 (8)-27	29-Sep-25	Night time	1	314	318	150	300	Pass
		2582442 (8)-28	29-Sep-25	Night time	2	325	-	-	-	-
5	Spot : Workshop Building : 1st Floor : Tel: Electrical Engineer 2	2582442 (8)-29	29-Sep-25	Night time	3	301	-	-	-	-
		2582442 (8)-30	29-Sep-25	Night time	4	331	-	-	-	-
6	Spot : Workshop Building : 1st Floor : Tel: C&I Engineer 1	2582442 (8)-31	29-Sep-25	Day time	1	446	-	400-500	-	Pass
		2582442 (8)-32	29-Sep-25	Night time	1	412	-	400-500	-	Pass
7	Spot : Workshop Building : 1st Floor : Tel: C&I Engineer 1	2582442 (8)-33	29-Sep-25	Day time	1	435	-	400-500	-	Pass
		2582442 (8)-34	29-Sep-25	Night time	1	433	-	400-500	-	Pass

Technical Management



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (8)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (8)-1

Page 2 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
7	Spot : Workshop Building : 1st Floor : Tat: C&I Engineer 2	2582442 (8)-35	29-Sep-25	Day time	1	507	-	400-500	-	Pass
		2582442 (8)-36	29-Sep-25	Night time	1	492	-	400-500	-	Pass
8	Spot : Workshop Building : 1st Floor : Tat: C&I Leader	2582442 (8)-37	29-Sep-25	Day time	1	591	-	400-500	-	Pass
		2582442 (8)-38	29-Sep-25	Night time	1	558	-	400-500	-	Pass
9	Spot : Workshop Building : 1st Floor : Tat: Electrical Engineer 1	2582442 (8)-39	29-Sep-25	Day time	1	411	-	400-500	-	Pass
		2582442 (8)-40	29-Sep-25	Night time	1	410	-	400-500	-	Pass
10	Spot : Workshop Building : 1st Floor : Tat: Electrical Leader	2582442 (8)-41	29-Sep-25	Day time	1	472	-	400-500	-	Pass
		2582442 (8)-42	29-Sep-25	Night time	1	475	-	400-500	-	Pass
11	Spot : Workshop Building : 1st Floor : Tat: Maintenance Manager	2582442 (8)-43	29-Sep-25	Day time	1	413	-	400-500	-	Pass
		2582442 (8)-44	29-Sep-25	Night time	1	451	-	400-500	-	Pass
12	Spot : Workshop Building : 1st Floor : Tat: Mechanical Engineer 1	2582442 (8)-45	29-Sep-25	Day time	1	407	-	400-500	-	Pass
		2582442 (8)-46	29-Sep-25	Night time	1	405	-	400-500	-	Pass
13	Spot : Workshop Building : 1st Floor : Tat: Mechanical Engineer 2	2582442 (8)-47	29-Sep-25	Day time	1	423	-	400-500	-	Pass
		2582442 (8)-48	29-Sep-25	Night time	1	418	-	400-500	-	Pass
14	Spot : Workshop Building : 1st Floor : Tat: Mechanical Leader	2582442 (8)-49	29-Sep-25	Day time	1	421	-	400-500	-	Pass
		2582442 (8)-50	29-Sep-25	Night time	1	409	-	400-500	-	Pass
15	Spot : Workshop Building : 1st Floor : Tat: Spare 1	2582442 (8)-51	29-Sep-25	Day time	1	503	-	400-500	-	Pass
		2582442 (8)-52	29-Sep-25	Night time	1	425	-	400-500	-	Pass
16	Spot : Workshop Building : 1st Floor : Tat: Spare 2	2582442 (8)-53	29-Sep-25	Day time	1	454	-	400-500	-	Pass
		2582442 (8)-54	29-Sep-25	Night time	1	494	-	400-500	-	Pass
17	Spot : Workshop Building : 1st Floor : Tat: Spare 3	2582442 (8)-55	29-Sep-25	Day time	1	405	-	400-500	-	Pass
		2582442 (8)-56	29-Sep-25	Night time	1	411	-	400-500	-	Pass
18	Area : Workshop Building : 1st Floor : Warehouse	2582442 (8)-57	29-Sep-25	Day time	1	331	426	50	100	Pass
		2582442 (8)-58	29-Sep-25	Day time	2	566				
		2582442 (8)-59	29-Sep-25	Day time	3	386				
		2582442 (8)-60	29-Sep-25	Day time	4	421				
		2582442 (8)-61	29-Sep-25	Night time	1	225	278	50	100	Pass
		2582442 (8)-62	29-Sep-25	Night time	2	305				
		2582442 (8)-63	29-Sep-25	Night time	3	301				
		2582442 (8)-64	29-Sep-25	Night time	4	280				

Technical Management

*Supot S*  
Supot Salamteh  
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Approved by

*Nichan Ch*  
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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (8)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (8)-1

Page 3 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
19	Area : Workshop Building : 1st Floor : Warehouse	2582442 (8)-65	29-Sep-25	Day time	1	187	194	50	100	Pass
		2582442 (8)-66	29-Sep-25	Day time	2	202				
		2582442 (8)-67	29-Sep-25	Night time	1	192	198	50	100	Pass
		2582442 (8)-68	29-Sep-25	Night time	2	203				

Measurement by : Nattakarn Vongyoo

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

Technical Management

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (9)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (9)-1

Page 1 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Workshop Building : Ground Floor : Warehouse Store	2582442 (9)-1	29-Sep-25	Day time	1	163	266	50	100	Pass
		2582442 (9)-2	29-Sep-25	Day time	2	334				
		2582442 (9)-3	29-Sep-25	Day time	3	157				
		2582442 (9)-4	29-Sep-25	Day time	4	124				
		2582442 (9)-5	29-Sep-25	Day time	5	503				
		2582442 (9)-6	29-Sep-25	Day time	6	513				
		2582442 (9)-7	29-Sep-25	Day time	7	211				
		2582442 (9)-8	29-Sep-25	Day time	8	143				
		2582442 (9)-9	29-Sep-25	Day time	9	751				
		2582442 (9)-10	29-Sep-25	Day time	10	681				
		2582442 (9)-11	29-Sep-25	Day time	11	199				
		2582442 (9)-12	29-Sep-25	Day time	12	161				
		2582442 (9)-13	29-Sep-25	Day time	13	208				
		2582442 (9)-14	29-Sep-25	Day time	14	196				
		2582442 (9)-15	29-Sep-25	Day time	15	160				
		2582442 (9)-16	29-Sep-25	Day time	16	444				
		2582442 (9)-17	29-Sep-25	Day time	17	192				
		2582442 (9)-18	29-Sep-25	Day time	18	190				
2	Area : Workshop Building : Ground Floor : Control & Instrument workshop	2582442 (9)-19	29-Sep-25	Day time	1	525	491	100	200	Pass
		2582442 (9)-20	29-Sep-25	Day time	2	543				
		2582442 (9)-21	29-Sep-25	Day time	3	446				
		2582442 (9)-22	29-Sep-25	Day time	4	450				
3	Area : Workshop Building : Ground Floor : Electrical Control Room	2582442 (9)-23	29-Sep-25	Day time	1	209	269	100	200	Pass
		2582442 (9)-24	29-Sep-25	Day time	2	329				
		2582442 (9)-25	29-Sep-25	Night time	1	247	266	100	200	Pass
		2582442 (9)-26	29-Sep-25	Night time	2	286				
4	Area : Workshop Building : Ground Floor : LTSA Room	2582442 (9)-27	29-Sep-25	Day time	1	618	597	50	100	Pass
		2582442 (9)-28	29-Sep-25	Day time	2	565				
		2582442 (9)-29	29-Sep-25	Day time	3	565				
		2582442 (9)-30	29-Sep-25	Day time	4	546				
		2582442 (9)-31	29-Sep-25	Day time	5	639				
		2582442 (9)-32	29-Sep-25	Day time	6	661				
		2582442 (9)-33	29-Sep-25	Day time	7	574				
		2582442 (9)-34	29-Sep-25	Day time	8	610				

Technical Management

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## Analysis / Test Report

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399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (9)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (9)-1

Page 2 of 3

GVLL2										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
5	Area : Workshop Building : Ground Floor : Server Room	2582442 (9)-35	29-Sep-25	Day time	1	347	341	100	200	Pass
		2582442 (9)-36	29-Sep-25	Day time	2	335				
		2582442 (9)-37	29-Sep-25	Night time	1	307	309	100	200	Pass
		2582442 (9)-38	29-Sep-25	Night time	2	311				
6	Area : Workshop Building : Ground Floor : Temp Control part Room	2582442 (9)-39	29-Sep-25	Day time	1	229	322	100	200	Pass
		2582442 (9)-40	29-Sep-25	Day time	2	406				
		2582442 (9)-41	29-Sep-25	Day time	3	321				
		2582442 (9)-42	29-Sep-25	Day time	4	353				
		2582442 (9)-43	29-Sep-25	Day time	5	306				
		2582442 (9)-44	29-Sep-25	Day time	6	320				
7	Spot : Workshop Building : Ground Floor : Toiletบริเวณโถงลิฟท์	2582442 (9)-45	29-Sep-25	Day time	1	420	-	400-500	-	Pass
9	Area : Workshop Building : Ground Floor : ว่างเปล่า	2582442 (9)-46	29-Sep-25	Day time	1	169	226	50	100	Pass
		2582442 (9)-47	29-Sep-25	Day time	2	171				
		2582442 (9)-48	29-Sep-25	Day time	3	145				
		2582442 (9)-49	29-Sep-25	Day time	4	106				
		2582442 (9)-50	29-Sep-25	Day time	5	156				
		2582442 (9)-51	29-Sep-25	Day time	6	277				
		2582442 (9)-52	29-Sep-25	Day time	7	450				
		2582442 (9)-53	29-Sep-25	Day time	8	336				
		2582442 (9)-54	29-Sep-25	Night time	1	313	220	50	100	Pass
		2582442 (9)-55	29-Sep-25	Night time	2	261				
		2582442 (9)-56	29-Sep-25	Night time	3	168				
		2582442 (9)-57	29-Sep-25	Night time	4	128				
2582442 (9)-58	29-Sep-25	Night time	5	121						
2582442 (9)-59	29-Sep-25	Night time	6	207						
2582442 (9)-60	29-Sep-25	Night time	7	263						
2582442 (9)-61	29-Sep-25	Night time	8	310						
10	Area : Workshop Building : Ground Floor : ว่างเปล่า	2582442 (9)-62	29-Sep-25	Day time	1	509	460	50	100	Pass
		2582442 (9)-63	29-Sep-25	Day time	2	432				
		2582442 (9)-64	29-Sep-25	Day time	3	438				
		2582442 (9)-65	29-Sep-25	Night time	1	395	406	50	100	Pass
		2582442 (9)-66	29-Sep-25	Night time	2	417				
		2582442 (9)-67	29-Sep-25	Night time	3	405				



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (9)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (9)-1

Page 3 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Workshop Building : Ground Floor : Warehouse	2582442 (9)-68	29-Sep-25	Day time	1	178	430	50	100	Pass
		2582442 (9)-69	29-Sep-25	Day time	2	562				
		2582442 (9)-70	29-Sep-25	Day time	3	550				
		2582442 (9)-71	29-Sep-25	Night time	1	368	377	50	100	Pass
		2582442 (9)-72	29-Sep-25	Night time	2	339				
		2582442 (9)-73	29-Sep-25	Night time	3	423				

Measurement by : Nattakarn Vongyoo

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

*Supt S*  
Supt Salameh  
Section Head

Approved by

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Assistant Manager

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P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 2582442 (10)  
Date Received : Oct 01, 2025  
Date Reported : Oct 07, 2025  
Report Number: 2582442 (10)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : qetana 1	2582442 (10)-1	29-Sep-25	Night time	1	62	69	25	50	Pass
		2582442 (10)-2	29-Sep-25	Night time	2	72				
		2582442 (10)-3	29-Sep-25	Night time	3	86				
		2582442 (10)-4	29-Sep-25	Night time	4	77				
		2582442 (10)-5	29-Sep-25	Night time	5	62				
		2582442 (10)-6	29-Sep-25	Night time	6	53				
		2582442 (10)-7	29-Sep-25	Night time	7	78				
		2582442 (10)-8	29-Sep-25	Night time	8	80				
		2582442 (10)-9	29-Sep-25	Night time	9	62				
		2582442 (10)-10	29-Sep-25	Night time	10	54				
2	Area : qetana 2	2582442 (10)-11	29-Sep-25	Night time	1	56	73	25	50	Pass
		2582442 (10)-12	29-Sep-25	Night time	2	83				
		2582442 (10)-13	29-Sep-25	Night time	3	104				
		2582442 (10)-14	29-Sep-25	Night time	4	101				
		2582442 (10)-15	29-Sep-25	Night time	5	65				
		2582442 (10)-16	29-Sep-25	Night time	6	79				
		2582442 (10)-17	29-Sep-25	Night time	7	74				
		2582442 (10)-18	29-Sep-25	Night time	8	53				
		2582442 (10)-19	29-Sep-25	Night time	9	56				
		2582442 (10)-20	29-Sep-25	Night time	10	58				

Measurement by : Nattakarn Vongyoo

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

Technical Management

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (1)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (1)-1

Page 1 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Administration Building : Ground Floor : Copy Machine	25105803 (1)-1	3-Dec-25	Day time	1	477	-	300-400	-	Pass
		25105803 (1)-2	3-Dec-25	Night time	1	309	-	300-400	-	Pass
2	Area : Administration Building : Ground Floor : Document Room	25105803 (1)-3	3-Dec-25	Day time	1	409	410	150	300	Pass
		25105803 (1)-4	3-Dec-25	Day time	2	411				
		25105803 (1)-5	3-Dec-25	Night time	1	342	324	150	300	Pass
		25105803 (1)-6	3-Dec-25	Night time	2	306				
3	Area : Administration Building : Ground Floor : Electrical Control Room	25105803 (1)-7	3-Dec-25	Day time	1	613	610	100	200	Pass
		25105803 (1)-8	3-Dec-25	Day time	2	606				
		25105803 (1)-9	3-Dec-25	Night time	1	581	590	100	200	Pass
		25105803 (1)-10	3-Dec-25	Night time	2	598				
4	Spot : Administration Building : Ground Floor : Environment Health & Safety Manager Room	25105803 (1)-11	3-Dec-25	Day time	1	457	-	400-500	-	Pass
		25105803 (1)-12	3-Dec-25	Night time	1	444	-	400-500	-	Pass
5	Area : Administration Building : Ground Floor : First Aid Room	25105803 (1)-13	3-Dec-25	Day time	1	488	532	150	300	Pass
		25105803 (1)-14	3-Dec-25	Day time	2	576				
		25105803 (1)-15	3-Dec-25	Night time	1	414	476	150	300	Pass
		25105803 (1)-16	3-Dec-25	Night time	2	539				
6	Spot : Administration Building : Ground Floor : Human resource & Admin Manager Room	25105803 (1)-17	3-Dec-25	Day time	1	492	-	400-500	-	Pass
		25105803 (1)-18	3-Dec-25	Night time	1	447	-	400-500	-	Pass
7	Area : Administration Building : Ground Floor : Meeting Room 1	25105803 (1)-19	3-Dec-25	Day time	1	320	330	150	300	Pass
		25105803 (1)-20	3-Dec-25	Day time	2	317				
		25105803 (1)-21	3-Dec-25	Day time	3	332				
		25105803 (1)-22	3-Dec-25	Day time	4	325				
		25105803 (1)-23	3-Dec-25	Day time	5	326				
		25105803 (1)-24	3-Dec-25	Day time	6	363				
		25105803 (1)-25	3-Dec-25	Night time	1	311	325	150	300	Pass
		25105803 (1)-26	3-Dec-25	Night time	2	326				
		25105803 (1)-27	3-Dec-25	Night time	3	305				
		25105803 (1)-28	3-Dec-25	Night time	4	329				
		25105803 (1)-29	3-Dec-25	Night time	5	318				
		25105803 (1)-30	3-Dec-25	Night time	6	360				

Technical Management

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399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (1)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (1)-1

Page 2 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
8	Area : Administration Building : Ground Floor : Meeting Room 2	25105803 (1)-31	3-Dec-25	Day time	1	311	324	150	300	Pass
		25105803 (1)-32	3-Dec-25	Day time	2	312				
		25105803 (1)-33	3-Dec-25	Day time	3	302				
		25105803 (1)-34	3-Dec-25	Day time	4	320				
		25105803 (1)-35	3-Dec-25	Day time	5	333				
		25105803 (1)-36	3-Dec-25	Day time	6	330				
		25105803 (1)-37	3-Dec-25	Day time	7	339				
		25105803 (1)-38	3-Dec-25	Day time	8	341				
		25105803 (1)-39	3-Dec-25	Night time	1	324	334	150	300	Pass
		25105803 (1)-40	3-Dec-25	Night time	2	329				
		25105803 (1)-41	3-Dec-25	Night time	3	320				
		25105803 (1)-42	3-Dec-25	Night time	4	327				
		25105803 (1)-43	3-Dec-25	Night time	5	324				
		25105803 (1)-44	3-Dec-25	Night time	6	337				
		25105803 (1)-45	3-Dec-25	Night time	7	363				
		25105803 (1)-46	3-Dec-25	Night time	8	347				
9	Area : Administration Building : Ground Floor : Pantry Room	25105803 (1)-47	3-Dec-25	Day time	1	967	958	150	300	Pass
		25105803 (1)-48	3-Dec-25	Day time	2	982				
		25105803 (1)-49	3-Dec-25	Day time	3	971				
		25105803 (1)-50	3-Dec-25	Day time	4	911				
		25105803 (1)-51	3-Dec-25	Night time	1	429	452	150	300	Pass
		25105803 (1)-52	3-Dec-25	Night time	2	514				
		25105803 (1)-53	3-Dec-25	Night time	3	447				
		25105803 (1)-54	3-Dec-25	Night time	4	417				
10	Spot : Administration Building : Ground Floor : Plant manager Room	25105803 (1)-55	3-Dec-25	Day time	1	516	-	400-500	-	Pass
		25105803 (1)-56	3-Dec-25	Night time	1	514	-	400-500	-	Pass

Technical Management

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (1)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (1)-1

Page 3 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Administration Building : Ground Floor : Reception Area	25105803 (1)-57	3-Dec-25	Day time	1	489	438	50	100	Pass
		25105803 (1)-58	3-Dec-25	Day time	2	536				
		25105803 (1)-59	3-Dec-25	Day time	3	483				
		25105803 (1)-60	3-Dec-25	Day time	4	412				
		25105803 (1)-61	3-Dec-25	Day time	5	398				
		25105803 (1)-62	3-Dec-25	Day time	6	310				
		25105803 (1)-63	3-Dec-25	Night time	1	405	428	50	100	Pass
		25105803 (1)-64	3-Dec-25	Night time	2	533				
		25105803 (1)-65	3-Dec-25	Night time	3	487				
		25105803 (1)-66	3-Dec-25	Night time	4	402				
		25105803 (1)-67	3-Dec-25	Night time	5	382				
		25105803 (1)-68	3-Dec-25	Night time	6	359				
12	Area : Administration Building : Ground Floor : Server Room	25105803 (1)-69	3-Dec-25	Day time	1	211	209	100	200	Pass
		25105803 (1)-70	3-Dec-25	Day time	2	207				
		25105803 (1)-71	3-Dec-25	Night time	1	218	212	100	200	Pass
13	Area : Administration Building : Ground Floor : Utility Room	25105803 (1)-72	3-Dec-25	Night time	2	205				
		25105803 (1)-73	3-Dec-25	Day time	1	615	620	50	100	Pass
		25105803 (1)-74	3-Dec-25	Day time	2	624				
14	Area : Administration Building : Ground Floor : Utility Room	25105803 (1)-75	3-Dec-25	Night time	1	380	352	50	100	Pass
		25105803 (1)-76	3-Dec-25	Night time	2	323				
		25105803 (1)-77	3-Dec-25	Day time	1	516	-	400-500	-	Pass
15	Spot : Administration Building : Ground Floor : Tafe Spare 1	25105803 (1)-78	3-Dec-25	Night time	1	425	-	400-500	-	Pass
		25105803 (1)-79	3-Dec-25	Day time	1	651	-	400-500	-	Pass
		25105803 (1)-80	3-Dec-25	Night time	1	527	-	400-500	-	Pass
16	Spot : Administration Building : Ground Floor : Tafe Spare 2	25105803 (1)-81	3-Dec-25	Day time	1	666	-	400-500	-	Pass
		25105803 (1)-82	3-Dec-25	Night time	1	413	-	400-500	-	Pass
		25105803 (1)-83	3-Dec-25	Day time	1	502	-	400-500	-	Pass
17	Spot : Administration Building : Ground Floor : Tafe Spare 2	25105803 (1)-84	3-Dec-25	Night time	1	509	-	400-500	-	Pass

Technical Management

*Supot S*  
Supot Salamteh  
Section Head

Approved by

*Nichan Chornharat*  
Wichan Chornharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
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Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (1)  
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Page 4 of 4

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
18	Area : Administration Building : Ground Floor : Warehouse	25105803 (1)-85	3-Dec-25	Day time	1	655	522	50	100	Pass
		25105803 (1)-86	3-Dec-25	Day time	2	499				
		25105803 (1)-87	3-Dec-25	Day time	3	412				
		25105803 (1)-88	3-Dec-25	Day time	4	462	419	50	100	Pass
		25105803 (1)-89	3-Dec-25	Night time	1	407				
		25105803 (1)-90	3-Dec-25	Night time	3	387				
19	Area : Administration Building : Ground Floor : Warehouse	25105803 (1)-91	3-Dec-25	Day time	1	599	610	50	100	Pass
		25105803 (1)-92	3-Dec-25	Day time	2	620				
		25105803 (1)-93	3-Dec-25	Day time	3	612				
		25105803 (1)-94	3-Dec-25	Night time	1	420	366	50	100	Pass
		25105803 (1)-95	3-Dec-25	Night time	2	368				
		25105803 (1)-96	3-Dec-25	Night time	3	311				

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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## Analysis / Test Report

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399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (2)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (2)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : 1st Floor : MCC Switchgear	25105803 (2)-1	3-Dec-25	Day time	1	896	464	100	200	Pass
		25105803 (2)-2	3-Dec-25	Day time	2	807				
		25105803 (2)-3	3-Dec-25	Day time	3	904				
		25105803 (2)-4	3-Dec-25	Day time	4	206				
		25105803 (2)-5	3-Dec-25	Day time	5	320				
		25105803 (2)-6	3-Dec-25	Day time	6	558				
		25105803 (2)-7	3-Dec-25	Day time	7	503				
		25105803 (2)-8	3-Dec-25	Day time	8	384				
		25105803 (2)-9	3-Dec-25	Day time	9	311				
		25105803 (2)-10	3-Dec-25	Day time	10	412				
		25105803 (2)-11	3-Dec-25	Day time	11	773				
		25105803 (2)-12	3-Dec-25	Day time	12	205				
		25105803 (2)-13	3-Dec-25	Day time	13	352				
		25105803 (2)-14	3-Dec-25	Day time	14	567				
		25105803 (2)-15	3-Dec-25	Day time	15	204				
		25105803 (2)-16	3-Dec-25	Day time	16	517				
		25105803 (2)-17	3-Dec-25	Day time	17	516				
		25105803 (2)-18	3-Dec-25	Day time	18	248				
		25105803 (2)-19	3-Dec-25	Night time	1	817	403	100	200	Pass
		25105803 (2)-20	3-Dec-25	Night time	2	512				
		25105803 (2)-21	3-Dec-25	Night time	3	778				
		25105803 (2)-22	3-Dec-25	Night time	4	215				
		25105803 (2)-23	3-Dec-25	Night time	5	258				
		25105803 (2)-24	3-Dec-25	Night time	6	442				
		25105803 (2)-25	3-Dec-25	Night time	7	479				
		25105803 (2)-26	3-Dec-25	Night time	8	343				
		25105803 (2)-27	3-Dec-25	Night time	9	189				
		25105803 (2)-28	3-Dec-25	Night time	10	546				
		25105803 (2)-29	3-Dec-25	Night time	11	809				
		25105803 (2)-30	3-Dec-25	Night time	12	252				
		25105803 (2)-31	3-Dec-25	Night time	13	263				
		25105803 (2)-32	3-Dec-25	Night time	14	521				
		25105803 (2)-33	3-Dec-25	Night time	15	248				
		25105803 (2)-34	3-Dec-25	Night time	16	312				
		25105803 (2)-35	3-Dec-25	Night time	17	412				
		25105803 (2)-36	3-Dec-25	Night time	18	211				

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) 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*  
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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (3)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (3)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : 2nd Floor : Pantry Room	25105803 (3)-1	3-Dec-25	Day time	1	1,498	1158	150	300	Pass
		25105803 (3)-2	3-Dec-25	Day time	2	818				
		25105803 (3)-3	3-Dec-25	Night time	1	1,480	1130	150	300	Pass
2	Spot : Control Building : 2nd Floor : DCS Room : มหัทธโนดม	25105803 (3)-4	3-Dec-25	Night time	2	799				
		25105803 (3)-5	3-Dec-25	Day time	1	941	-	200-300	-	Pass
		25105803 (3)-6	3-Dec-25	Night time	1	916	-	200-300	-	Pass
3	Spot : Control Building : 2nd Floor : Utility Room : มหัทธโนดม	25105803 (3)-7	3-Dec-25	Day time	1	735	-	200-300	-	Pass
		25105803 (3)-8	3-Dec-25	Night time	1	722	-	200-300	-	Pass
		25105803 (3)-9	3-Dec-25	Day time	1	590	-	400-500	-	Pass
4	Spot : Control Building : 2nd Floor : Tafe Daytime 1	25105803 (3)-10	3-Dec-25	Night time	1	578	-	400-500	-	Pass
		25105803 (3)-11	3-Dec-25	Day time	1	667	-	400-500	-	



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Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Control Building : 2nd Floor : view 9/1818	25105803 (3)-23	3-Dec-25	Day time	1	327	334	50	100	Pass
		25105803 (3)-24	3-Dec-25	Day time	2	259				
		25105803 (3)-25	3-Dec-25	Day time	3	480				
		25105803 (3)-26	3-Dec-25	Day time	4	289				
		25105803 (3)-27	3-Dec-25	Day time	5	267				
		25105803 (3)-28	3-Dec-25	Day time	6	381				
		25105803 (3)-29	3-Dec-25	Night time	1	178		198	50	Pass
		25105803 (3)-30	3-Dec-25	Night time	2	251				
		25105803 (3)-31	3-Dec-25	Night time	3	174				
		25105803 (3)-32	3-Dec-25	Night time	4	229				
		25105803 (3)-33	3-Dec-25	Night time	5	175				
		25105803 (3)-34	3-Dec-25	Night time	6	179				

Measurement by : Charon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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Supot Salamteah  
Section Head

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P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (4)  
Date Received : Dec 05, 2025  
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Report Number: 25105803 (4)-1

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Control Building : Gas metering station : Gas metering Control Room	25105803 (4)-1	3-Dec-25	Day time	1	301	295	100	200	Pass
		25105803 (4)-2	3-Dec-25	Day time	2	289				
		25105803 (4)-3	3-Dec-25	Night time	1	302				
		25105803 (4)-4	3-Dec-25	Night time	2	297				
2	Area : Control Building : Gas metering station : Storage Room	25105803 (4)-5	3-Dec-25	Day time	1	797	760	50	100	Pass
		25105803 (4)-6	3-Dec-25	Day time	2	722				
		25105803 (4)-7	3-Dec-25	Night time	1	807		50	100	Pass
		25105803 (4)-8	3-Dec-25	Night time	2	804				

Measurement by : Charon Booncheun

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Technical Management

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P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (5)  
Date Received : Dec 05, 2025  
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Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Guard House : Size 1x1m.	25105803 (5)-1	3-Dec-25	Day time	1	988	990	-	100	Pass
		25105803 (5)-2	3-Dec-25	Day time	2	993				
		25105803 (5)-3	3-Dec-25	Night time	1	295		-	100	Pass
		25105803 (5)-4	3-Dec-25	Night time	2	521				

Measurement by : Charon Booncheun

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Technical Management

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Project Location: GNLL2

Lot ID: 25105803 (6)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (6)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Substation Building : Substation Room	25105803 (6)-1	3-Dec-25	Day time	1	1,007	1059	100	200	Pass
		25105803 (6)-2	3-Dec-25	Day time	2	835				
		25105803 (6)-3	3-Dec-25	Day time	3	1,034				
		25105803 (6)-4	3-Dec-25	Day time	4	1,421				
		25105803 (6)-5	3-Dec-25	Day time	5	940				
		25105803 (6)-6	3-Dec-25	Day time	6	1,211				
		25105803 (6)-7	3-Dec-25	Day time	7	966				
		25105803 (6)-8	3-Dec-25	Night time	1	348		599	100	Pass
		25105803 (6)-9	3-Dec-25	Night time	2	689				
		25105803 (6)-10	3-Dec-25	Night time	3	726				
		25105803 (6)-11	3-Dec-25	Night time	4	685				
		25105803 (6)-12	3-Dec-25	Night time	5	683				
		25105803 (6)-13	3-Dec-25	Night time	6	663				
		25105803 (6)-14	3-Dec-25	Night time	7	401				
2	Area : Substation Building : Switchgear Room	25105803 (6)-15	3-Dec-25	Day time	1	406	656	100	200	Pass
		25105803 (6)-16	3-Dec-25	Day time	2	638				
		25105803 (6)-17	3-Dec-25	Day time	3	705				
		25105803 (6)-18	3-Dec-25	Day time	4	761				
		25105803 (6)-19	3-Dec-25	Day time	5	772		634	100	Pass
		25105803 (6)-20	3-Dec-25	Night time	1	538				
		25105803 (6)-21	3-Dec-25	Night time	2	609				
		25105803 (6)-22	3-Dec-25	Night time	3	687				
		25105803 (6)-23	3-Dec-25	Night time	4	693				
		25105803 (6)-24	3-Dec-25	Night time	5	644				
3	Area : Substation Building : Terminal Sub	25105803 (6)-25	3-Dec-25	Day time	1	611	833	100	200	Pass
		25105803 (6)-26	3-Dec-25	Day time	2	668				
		25105803 (6)-27	3-Dec-25	Day time	3	798				
		25105803 (6)-28	3-Dec-25	Day time	4	1,255				
		25105803 (6)-29	3-Dec-25	Night time	1	347		406	100	Pass
		25105803 (6)-30	3-Dec-25	Night time	2	368				
		25105803 (6)-31	3-Dec-25	Night time	3	476				
		25105803 (6)-32	3-Dec-25	Night time	4	433				

Measurement by : Charon Booncheun

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Technical Management

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P/O :  
Project Name : Monitoring EIA  
Project Location: GNL2

Lot ID: 25105803 (7)  
Date Received : Dec 05, 2025  
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Report Number: 25105803 (7)-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 : Water Treatment Control Building Ground Floor : Laboratory Room : 1st-1st pH	25105803 (7)-1	3-Dec-25	Day time	1	654	-	400-500	-	Pass
		25105803 (7)-2	3-Dec-25	Night time	1	581	-	400-500	-	Pass
2	Area : Water Treatment Control Building Ground Floor : WTP Control Room	25105803 (7)-3	3-Dec-25	Day time	1	819	854	100	200	Pass
		25105803 (7)-4	3-Dec-25	Day time	2	791				
		25105803 (7)-5	3-Dec-25	Day time	3	904				
		25105803 (7)-6	3-Dec-25	Day time	4	839				
		25105803 (7)-7	3-Dec-25	Day time	5	837				
		25105803 (7)-8	3-Dec-25	Night time	1	754	785	100	200	Pass
		25105803 (7)-9	3-Dec-25	Night time	2	839				
		25105803 (7)-10	3-Dec-25	Night time	3	761				
		25105803 (7)-11	3-Dec-25	Night time	4	821				
		25105803 (7)-12	3-Dec-25	Night time	5	748				
3	Spot : Water Treatment Control Building Ground Floor : 1st Chemist	25105803 (7)-13	3-Dec-25	Day time	1	509	-	400-500	-	Pass
		25105803 (7)-14	3-Dec-25	Night time	1	477	-	400-500	-	Pass

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNL2

Lot ID: 25105803 (8)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (8)-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 : Workshop Building : 1st Floor : Copy Machine	25105803 (8)-1	3-Dec-25	Day time	1	583	-	300-400	-	Pass
		25105803 (8)-2	3-Dec-25	Night time	1	584	-	300-400	-	Pass
2	Area : Workshop Building : 1st Floor : Document Room	25105803 (8)-3	3-Dec-25	Day time	1	291	302	150	300	Pass
		25105803 (8)-4	3-Dec-25	Day time	2	314				
		25105803 (8)-5	3-Dec-25	Night time	1	301	311	150	300	Pass
		25105803 (8)-6	3-Dec-25	Night time	2	321				
3	Area : Workshop Building : 1st Floor : Meeting Room	25105803 (8)-7	3-Dec-25	Day time	1	302	487	150	300	Pass
		25105803 (8)-8	3-Dec-25	Day time	2	341				
		25105803 (8)-9	3-Dec-25	Day time	3	356				
		25105803 (8)-10	3-Dec-25	Day time	4	362				
		25105803 (8)-11	3-Dec-25	Day time	5	443				
		25105803 (8)-12	3-Dec-25	Day time	6	614				
		25105803 (8)-13	3-Dec-25	Day time	7	647				
		25105803 (8)-14	3-Dec-25	Day time	8	628				
		25105803 (8)-15	3-Dec-25	Night time	1	315	331	150	300	Pass
		25105803 (8)-16	3-Dec-25	Night time	2	327				
		25105803 (8)-17	3-Dec-25	Night time	3	324				
		25105803 (8)-18	3-Dec-25	Night time	4	330				
		25105803 (8)-19	3-Dec-25	Night time	5	347				
		25105803 (8)-20	3-Dec-25	Night time	6	362				
		25105803 (8)-21	3-Dec-25	Night time	7	414				
		25105803 (8)-22	3-Dec-25	Night time	8	326				
4	Area : Workshop Building : 1st Floor : Pantry Room	25105803 (8)-23	3-Dec-25	Day time	1	714	420	150	300	Pass
		25105803 (8)-24	3-Dec-25	Day time	2	312				
		25105803 (8)-25	3-Dec-25	Day time	3	339				
		25105803 (8)-26	3-Dec-25	Day time	4	313				
		25105803 (8)-27	3-Dec-25	Night time	1	364	330	150	300	Pass
		25105803 (8)-28	3-Dec-25	Night time	2	308				
5	Spot : Workshop Building : 1st Floor : 1st Electrical Engineer 2	25105803 (8)-31	3-Dec-25	Day time	1	424	-	400-500	-	Pass
		25105803 (8)-32	3-Dec-25	Night time	1	418	-	400-500	-	Pass
6	Spot : Workshop Building : 1st Floor : 1st CAB Engineer 1	25105803 (8)-33	3-Dec-25	Day time	1	451	-	400-500	-	Pass
		25105803 (8)-34	3-Dec-25	Night time	1	432	-	400-500	-	Pass

Technical Management

*Supt S*  
Supt Salameh  
Section Head

Approved by

*Nichan Chorn*  
Wichan Chornharat  
Assistant Manager

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## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNL2

Lot ID: 25105803 (8)  
Date Received : Dec 05, 2025  
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Page 2 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
7	Spot : Workshop Building : 1st Floor : 1st CAB Engineer 2	25105803 (8)-35	3-Dec-25	Day time	1	429	-	400-500	-	Pass
		25105803 (8)-36	3-Dec-25	Night time	1	428	-	400-500	-	Pass
8	Spot : Workshop Building : 1st Floor : 1st CAB Engineer 1	25105803 (8)-37	3-Dec-25	Day time	1	574	-	400-500	-	Pass
		25105803 (8)-38	3-Dec-25	Night time	1	492	-	400-500	-	Pass
9	Spot : Workshop Building : 1st Floor : 1st Electrical Engineer 1	25105803 (8)-39	3-Dec-25	Day time	1	429	-	400-500	-	Pass
		25105803 (8)-40	3-Dec-25	Night time	1	416	-	400-500	-	Pass
10	Spot : Workshop Building : 1st Floor : 1st Electrical Engineer 2	25105803 (8)-41	3-Dec-25	Day time	1	461	-	400-500	-	Pass
		25105803 (8)-42	3-Dec-25	Night time	1	423	-	400-500	-	Pass
11	Spot : Workshop Building : 1st Floor : 1st Maintenance Manager	25105803 (8)-43	3-Dec-25	Day time	1	520	-	400-500	-	Pass
		25105803 (8)-44	3-Dec-25	Night time	1	425	-	400-500	-	Pass
12	Spot : Workshop Building : 1st Floor : 1st Mechanical Engineer 1	25105803 (8)-45	3-Dec-25	Day time	1	429	-	400-500	-	Pass
		25105803 (8)-46	3-Dec-25	Night time	1	458	-	400-500	-	Pass
13	Spot : Workshop Building : 1st Floor : 1st Mechanical Engineer 2	25105803 (8)-47	3-Dec-25	Day time	1	424	-	400-500	-	Pass
		25105803 (8)-48	3-Dec-25	Night time	1	409	-	400-500	-	Pass
14	Spot : Workshop Building : 1st Floor : 1st Mechanical Engineer 3	25105803 (8)-49	3-Dec-25	Day time	1	436	-	400-500	-	Pass
		25105803 (8)-50	3-Dec-25	Night time	1	417	-	400-500	-	Pass
15	Spot : Workshop Building : 1st Floor : 1st Spare 1	25105803 (8)-51	3-Dec-25	Day time	1	506	-	400-500	-	Pass
		25105803 (8)-52	3-Dec-25	Night time	1	438	-	400-500	-	Pass
16	Spot : Workshop Building : 1st Floor : 1st Spare 2	25105803 (8)-53	3-Dec-25	Day time	1	570	-	400-500	-	Pass
		25105803 (8)-54	3-Dec-25	Night time	1	536	-	400-500	-	Pass
17	Spot : Workshop Building : 1st Floor : 1st Spare 3	25105803 (8)-55	3-Dec-25	Day time	1	406	-	400-500	-	Pass
		25105803 (8)-56	3-Dec-25	Night time	1	401	-	400-500	-	Pass
18	Area : Workshop Building : 1st Floor : Warehouse	25105803 (8)-57	3-Dec-25	Day time	1	423	417	50	100	Pass
		25105803 (8)-58	3-Dec-25	Day time	2	413				
		25105803 (8)-59	3-Dec-25	Day time	3	491				
		25105803 (8)-60	3-Dec-25	Day time	4	387				
		25105803 (8)-61	3-Dec-25	Night time	1	415				
		25105803 (8)-62	3-Dec-25	Night time	2	417				
		25105803 (8)-63	3-Dec-25	Night time	3	501				
		25105803 (8)-64	3-Dec-25	Night time	4	336				

Technical Management

*Supt S*  
Supt Salameh  
Section Head

Approved by

*Nichan Chorn*  
Wichan Chornharat  
Assistant Manager

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## Analysis / Test Report

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399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNL2

Lot ID: 25105803 (8)  
Date Received : Dec 05, 2025  
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Report Number: 25105803 (8)-1

Page 3 of 3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
19	Area : Workshop Building : 1st Floor : Warehouse	25105803 (8)-65	3-Dec-25	Day time	1	212	195	50	100	Pass
		25105803 (8)-66	3-Dec-25	Day time	2	178				
		25105803 (8)-67	3-Dec-25	Night time	1	204	166	50	100	Pass
		25105803 (8)-68	3-Dec-25	Night time	2	127				

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (1017) 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

*Supt S*  
Supt Salameh  
Section Head

Approved by

*Nichan Chorn*  
Wichan Chornharat  
Assistant Manager



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (9)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (9)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Workshop Building : Ground Floor : Warehouse 3/4/14	25105803 (9)-1	3-Dec-25	Day time	1	167	195	50	100	Pass
		25105803 (9)-2	3-Dec-25	Day time	2	239				
		25105803 (9)-3	3-Dec-25	Day time	3	184				
		25105803 (9)-4	3-Dec-25	Day time	4	162				
		25105803 (9)-5	3-Dec-25	Day time	5	348				
		25105803 (9)-6	3-Dec-25	Day time	6	336				
		25105803 (9)-7	3-Dec-25	Day time	7	213				
		25105803 (9)-8	3-Dec-25	Day time	8	102				
		25105803 (9)-9	3-Dec-25	Day time	9	257				
		25105803 (9)-10	3-Dec-25	Day time	10	211				
		25105803 (9)-11	3-Dec-25	Day time	11	198				
		25105803 (9)-12	3-Dec-25	Day time	12	167				
		25105803 (9)-13	3-Dec-25	Day time	13	125				
		25105803 (9)-14	3-Dec-25	Day time	14	182				
		25105803 (9)-15	3-Dec-25	Day time	15	216				
		25105803 (9)-16	3-Dec-25	Day time	16	209				
		25105803 (9)-17	3-Dec-25	Day time	17	157				
		25105803 (9)-18	3-Dec-25	Day time	18	202				
2	Area : Workshop Building : Ground Floor : Control & Instrument workshop	25105803 (9)-19	3-Dec-25	Day time	1	531	512	100	200	Pass
		25105803 (9)-20	3-Dec-25	Day time	2	527				
		25105803 (9)-21	3-Dec-25	Day time	3	503				
		25105803 (9)-22	3-Dec-25	Day time	4	487				
3	Area : Workshop Building : Ground Floor : Electrical Control Room	25105803 (9)-23	3-Dec-25	Day time	1	261	254	100	200	Pass
		25105803 (9)-24	3-Dec-25	Day time	2	248				
		25105803 (9)-25	3-Dec-25	Night time	1	233	242	100	200	Pass
		25105803 (9)-26	3-Dec-25	Night time	2	250				
4	Area : Workshop Building : Ground Floor : LTSA Room	25105803 (9)-27	3-Dec-25	Day time	1	624	578	50	100	Pass
		25105803 (9)-28	3-Dec-25	Day time	2	627				
		25105803 (9)-29	3-Dec-25	Day time	3	578				
		25105803 (9)-30	3-Dec-25	Day time	4	621				
		25105803 (9)-31	3-Dec-25	Day time	5	681				
		25105803 (9)-32	3-Dec-25	Day time	6	629				
		25105803 (9)-33	3-Dec-25	Day time	7	453				
		25105803 (9)-34	3-Dec-25	Day time	8	406				

Technical Management

*Supt S*  
Supt Salameh  
Section Head

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Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (9)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (9)-1

Page 2 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
5	Area : Workshop Building : Ground Floor : Server Room	25105803 (9)-35	3-Dec-25	Day time	1	268	281	100	200	Pass
		25105803 (9)-36	3-Dec-25	Day time	2	294				
		25105803 (9)-37	3-Dec-25	Night time	1	238	257	100	200	Pass
		25105803 (9)-38	3-Dec-25	Night time	2	276				
6	Area : Workshop Building : Ground Floor : Temp Control part Room	25105803 (9)-39	3-Dec-25	Day time	1	219	211	100	200	Pass
		25105803 (9)-40	3-Dec-25	Day time	2	224				
		25105803 (9)-41	3-Dec-25	Day time	3	206				
		25105803 (9)-42	3-Dec-25	Day time	4	239				
		25105803 (9)-43	3-Dec-25	Day time	5	158				
		25105803 (9)-44	3-Dec-25	Day time	6	221				
7	Spot : Workshop Building : Ground Floor : ใต้ชั้นวางวัสดุไฟฟ้า	25105803 (9)-45	3-Dec-25	Day time	1	487	-	400-500	-	Pass
9	Area : Workshop Building : Ground Floor : Warehouse	25105803 (9)-46	3-Dec-25	Day time	1	335	230	50	100	Pass
		25105803 (9)-47	3-Dec-25	Day time	2	112				
		25105803 (9)-48	3-Dec-25	Day time	3	153				
		25105803 (9)-49	3-Dec-25	Day time	4	136				
		25105803 (9)-50	3-Dec-25	Day time	5	317				
		25105803 (9)-51	3-Dec-25	Day time	6	311				
		25105803 (9)-52	3-Dec-25	Day time	7	321				
		25105803 (9)-53	3-Dec-25	Day time	8	157				
		25105803 (9)-54	3-Dec-25	Night time	1	249	207	50	100	Pass
		25105803 (9)-55	3-Dec-25	Night time	2	148				
10	Area : Workshop Building : Ground Floor : Warehouse	25105803 (9)-56	3-Dec-25	Night time	3	217				
		25105803 (9)-57	3-Dec-25	Night time	4	172				
		25105803 (9)-58	3-Dec-25	Night time	5	189				
		25105803 (9)-59	3-Dec-25	Night time	6	254				
		25105803 (9)-60	3-Dec-25	Night time	7	207				
		25105803 (9)-61	3-Dec-25	Night time	8	220				
		25105803 (9)-62	3-Dec-25	Day time	1	448	512	50	100	Pass
		25105803 (9)-63	3-Dec-25	Day time	2	579				
10	Area : Warehouse 1	25105803 (10)-1	3-Dec-25	Night time	1	59	59	25	50	Pass
		25105803 (10)-2	3-Dec-25	Night time	2	51				
		25105803 (10)-3	3-Dec-25	Night time	3	64				
		25105803 (10)-4	3-Dec-25	Night time	4	72				
10	Area : Warehouse 2	25105803 (10)-5	3-Dec-25	Night time	5	43				
		25105803 (10)-6	3-Dec-25	Night time	6	57				
		25105803 (10)-7	3-Dec-25	Night time	7	54				
		25105803 (10)-8	3-Dec-25	Night time	8	61				
		25105803 (10)-9	3-Dec-25	Night time	9	62				
		25105803 (10)-10	3-Dec-25	Night time	10	70				
		25105803 (10)-11	3-Dec-25	Night time	1	62	76	25	50	Pass
		25105803 (10)-12	3-Dec-25	Night time	2	93				
		25105803 (10)-13	3-Dec-25	Night time	3	95				
		25105803 (10)-14	3-Dec-25	Night time	4	96				
10	Area : Warehouse 2	25105803 (10)-15	3-Dec-25	Night time	5	93				
		25105803 (10)-16	3-Dec-25	Night time	6	68				
		25105803 (10)-17	3-Dec-25	Night time	7	70				
		25105803 (10)-18	3-Dec-25	Night time	8	63				
		25105803 (10)-19	3-Dec-25	Night time	9	61				
		25105803 (10)-20	3-Dec-25	Night time	10	62				

Technical Management

*Supt S*  
Supt Salameh  
Section Head

Approved by

*Nichan Chornharat*  
Wichan Chornharat  
Assistant Manager

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Project Location: GNLL2

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Page 3 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
11	Area : Workshop Building : Ground Floor : Warehouse 1	25105803 (9)-68	3-Dec-25	Day time	1	640	642	50	100	Pass
		25105803 (9)-69	3-Dec-25	Day time	2	459				
		25105803 (9)-70	3-Dec-25	Day time	3	826	531	50	100	Pass
		25105803 (9)-71	3-Dec-25	Night time	1	487				
		25105803 (9)-72	3-Dec-25	Night time	2	466				
11	Area : Warehouse 1	25105803 (9)-73	3-Dec-25	Night time	3	639				

Measurement by : Chanon Booncheun

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

*Supt S*  
Supt Salameh  
Section Head

Approved by

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P/O :  
Project Name : Monitoring EIA  
Project Location: GNLL2

Lot ID: 25105803 (10)  
Date Received : Dec 05, 2025  
Date Reported : Dec 08, 2025  
Report Number: 25105803 (10)-1

Page 1 of 1

GULL2										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : gudang 1	25105803 (10)-1	3-Dec-25	Night time	1	59	59	25	50	Pass
		25105803 (10)-2	3-Dec-25	Night time	2	51				
		25105803 (10)-3	3-Dec-25	Night time	3	64				
		25105803 (10)-4	3-Dec-25	Night time	4	72				
		25105803 (10)-5	3-Dec-25	Night time	5	43				
		25105803 (10)-6	3-Dec-25	Night time	6	57				
		25105803 (10)-7	3-Dec-25	Night time	7	54				
		25105803 (10)-8	3-Dec-25	Night time	8	61				
		25105803 (10)-9	3-Dec-25	Night time	9	62				
		25105803 (10)-10	3-Dec-25	Night time	10	70				
2	Area : gudang 2	25105803 (10)-11	3-Dec-25	Night time	1	62	76	25	50	Pass
		25105803 (10)-12	3-Dec-25	Night time	2	93				
		25105803 (10)-13	3-Dec-25	Night time	3	95				
		25105803 (10)-14	3-Dec-25	Night time	4	96				
		25105803 (10)-15	3-Dec-25	Night time	5	93				
		25105803 (10)-16	3-Dec-25	Night time	6	68				
		25105803 (10)-17	3-Dec-25	Night time	7	70				
		25105803 (10)-18	3-Dec-25	Night time	8	63				
		25105803 (10)-19	3-Dec-25	Night time	9	61				
		25105803 (10)-20	3-Dec-25	Night time	10	62				

## ภาคผนวก ค-2

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ผลการตรวจวัดคุณภาพอากาศจากปล่องระบายอากาศ  
แบบต่อเนื่อง

(Continuous Emission Monitoring System : CEMs)

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS011  
TUE025 00 00 - 31JUL025 23 59

Date & Time	Actual Operation Condition				Emission Concentration for Standardization Comparison			Remark
	%	FLOW @1 ATM	25C	GTG11_I_OAD	HRS01_NOx@74%O2	HRS01_SOx@74%O2	HRS01_Dust (74%O2)	
		m3/hr	MW		ppm	ppm	mg/m3	
01/07/2025 00:00	14.954	343768.875	42.055	14.841	0.000	8.041		On Peak Load
01/07/2025 01:00	14.898	307016.094	37.309	12.337	0.000	6.746		Off Peak Load
01/07/2025 02:00	14.893	316417.719	38.619	12.177	0.000	5.620		Off Peak Load
01/07/2025 03:00	14.832	292828.375	35.551	12.595	0.000	7.296		Off Peak Load
01/07/2025 04:00	14.843	294866.375	35.903	11.513	0.000	11.637		Off Peak Load
01/07/2025 05:00	14.864	297312.813	36.379	11.815	0.000	7.331		Off Peak Load
01/07/2025 06:00	14.852	305467.063	36.771	11.404	0.000	8.761		Off Peak Load
01/07/2025 07:00	14.848	298839.938	35.639	9.422	0.000	7.927		Off Peak Load
01/07/2025 08:00	14.896	270581.719	31.684	11.503	0.000	5.660		Off Peak Load
01/07/2025 09:00	14.921	271856.625	31.597	9.349	0.001	5.807		Off Peak Load
01/07/2025 10:00	14.891	315369.469	38.526	12.995	0.001	5.091		On Peak Load
01/07/2025 11:00	14.987	321531.469	38.647	13.734	0.001	3.785		On Peak Load
01/07/2025 12:00	15.011	323657.656	38.975	13.859	0.001	3.352		On Peak Load
01/07/2025 13:00	15.291	238070.703	23.589	41.401	0.001	3.505		Off Peak Load
01/07/2025 14:00	14.989	327164.969	38.881	13.265	0.002	3.804		On Peak Load
01/07/2025 15:00	15.007	320373.281	38.527	14.398	0.002	3.724		On Peak Load
01/07/2025 16:00	14.995	326498.906	39.161	14.368	0.002	3.539		On Peak Load
01/07/2025 17:00	14.961	327004.281	39.142	13.682	0.002	4.276		On Peak Load
01/07/2025 18:00	14.972	326345.344	40.151	14.447	0.001	5.068		On Peak Load
01/07/2025 19:00	14.860	312214.969	38.649	14.199	0.001	12.548		On Peak Load
01/07/2025 20:00	14.858	313149.688	38.293	12.446	0.001	23.986		On Peak Load
01/07/2025 21:00	14.826	317231.719	39.285	9.722	0.001	22.272		On Peak Load
01/07/2025 22:00	14.901	333639.656	40.918	8.138	0.001	15.678		On Peak Load
01/07/2025 23:00	14.841	318620.625	38.940	11.481	0.000	13.874		On Peak Load
02/07/2025 00:00	14.927	368711.375	46.679	12.927	0.000	10.445		Off Peak Load GT12 SD Half Block
02/07/2025 01:00	14.956	347107.188	43.399	9.267	0.001	6.236		Off Peak Load GT12 SD Half Block
02/07/2025 02:00	14.960	348035.875	43.439	8.796	0.001	5.909		Off Peak Load GT12 SD Half Block
02/07/2025 03:00	14.965	353246.906	43.388	9.677	0.001	10.781		Off Peak Load GT12 SD Half Block
02/07/2025 04:00	14.969	351037.313	43.375	10.031	0.002	7.511		Off Peak Load GT12 SD Half Block
02/07/2025 05:00	14.980	347842.719	43.323	11.230	0.002	5.324		Off Peak Load GT12 SD Half Block
02/07/2025 06:00	14.991	349165.219	43.318	15.365	0.002	4.022		Off Peak Load GT12 SD Half Block
02/07/2025 07:00	15.002	350857.250	43.225	14.662	0.003	4.054		Off Peak Load GT12 SD Half Block
02/07/2025 08:00	15.011	350660.656	43.257	13.476	0.003	4.770		Off Peak Load GT12 SD Half Block
02/07/2025 09:00	14.901	330259.406	41.546	12.806	0.002	6.270		Off Peak Load
02/07/2025 10:00	14.982	321493.969	39.051	13.541	0.002	4.153		On Peak Load
02/07/2025 11:00	14.994	327580.344	39.174	15.259	0.001	4.818		On Peak Load
02/07/2025 12:00	14.987	316394.844	38.177	14.963	0.001	4.223		On Peak Load
02/07/2025 13:00	15.059	256925.453	28.248	29.414	0.000	3.165		Off Peak Load
02/07/2025 14:00	15.047	343537.250	41.443	15.319	0.000	3.785		On Peak Load
02/07/2025 15:00	15.002	353486.719	42.163	14.612	0.000	6.150		On Peak Load
02/07/2025 16:00	14.973	341075.594	41.508	13.801	0.000	6.352		On Peak Load
02/07/2025 17:00	15.003	338515.969	41.058	14.479	0.000	8.519		On Peak Load
02/07/2025 18:00	14.930	330211.344	40.141	14.238	0.000	10.828		On Peak Load
02/07/2025 19:00	14.994	354847.438	42.937	14.551	0.000	6.874		On Peak Load
02/07/2025 20:00	14.966	335511.781	40.407	13.533	0.000	5.869		On Peak Load
02/07/2025 21:00	14.991	338706.688	41.204	14.536	0.000	6.718		On Peak Load
02/07/2025 22:00	14.956	333756.375	40.695	13.319	0.000	7.060		On Peak Load
02/07/2025 23:00	14.942	330220.875	40.537	13.363	0.000	8.648		On Peak Load
03/07/2025 00:00	14.831	305061.813	36.983	12.394	0.000	9.644		Off Peak Load
03/07/2025 01:00	14.853	302925.563	36.676	12.989	0.000	7.826		Off Peak Load
03/07/2025 02:00	14.871	308728.500	36.819	13.347	0.000	7.627		Off Peak Load
03/07/2025 03:00	14.819	303912.188	35.525	11.296	0.000	10.676		Off Peak Load
03/07/2025 04:00	14.823	301028.406	36.699	12.615	0.000	12.364		Off Peak Load
03/07/2025 05:00	14.832	296394.438	35.804	8.818	0.000	14.435		Off Peak Load
03/07/2025 06:00	14.809	301370.188	36.674	11.373	0.000	9.909		Off Peak Load
03/07/2025 07:00	14.787	297573.750	36.289	11.811	0.000	6.730		Off Peak Load
03/07/2025 08:00	14.813	277158.344	32.924	10.223	0.000	6.312		Off Peak Load
03/07/2025 09:00	14.867	266219.406	30.114	19.017	0.000	5.557		Off Peak Load
03/07/2025 10:00	14.909	319335.406	38.354	11.215	0.000	5.107		On Peak Load
03/07/2025 11:00	14.936	315359.250	37.941	11.450	0.000	6.808		On Peak Load
03/07/2025 12:00	14.887	315356.438	38.973	13.418	0.000	4.309		On Peak Load
03/07/2025 13:00	15.134	237952.609	24.481	35.158	0.000	6.799		Off Peak Load
03/07/2025 14:00	14.901	322388.250	38.843	13.053	0.000	4.813		On Peak Load
03/07/2025 15:00	14.915	317312.625	38.230	12.051	0.000	3.947		On Peak Load
03/07/2025 16:00	14.924	328521.813	39.302	13.385	0.000	4.065		On Peak Load
03/07/2025 17:00	14.979	317968.688	38.448	13.450	0.000	3.559		On Peak Load
03/07/2025 18:00	14.989	321441.344	38.838	13.928	0.001	3.568		On Peak Load
03/07/2025 19:00	14.950	321652.938	39.190	12.599	0.001	6.400		On Peak Load
03/07/2025 20:00	14.903	318361.500	38.598	13.246	0.001	8.144		On Peak Load
03/07/2025 21:00	14.908	317845.156	39.135	12.970	0.001	6.050		On Peak Load
03/07/2025 22:00	14.916	323420.219	39.572	14.753	0.001	5.789		On Peak Load
03/07/2025 23:00	14.961	343072.219	40.834	14.247	0.001	6.154		On Peak Load
04/07/2025 00:00	14.697	294694.688	35.825	13.777	0.001	4.522		Off Peak Load
04/07/2025 01:00	14.849	300779.719	36.667	11.642	0.001	4.125		Off Peak Load
04/07/2025 02:00	14.864	315606.656	38.455	12.450	0.001	4.384		Off Peak Load
04/07/2025 03:00	14.872	300251.906	36.203	10.216	0.001	7.713		Off Peak Load
04/07/2025 04:00	14.857	296634.813	35.327	12.185	0.001	7.088		Off Peak Load

Site Name:  
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Periodically:

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Date & Time	Actual Operation Condition				Emission Concentration for Standardization Comparison			Remark
	%	FLOW @1 ATM	25C	GTG11_I_OAD	HRS01_NOx@74%O2	HRS01_SOx@74%O2	HRS01_Dust (74%O2)	
		m3/hr	MW		ppm	ppm	mg/m3	
04/07/2025 05:00	14.863	309040.125	37.415	10.677	0.001	9.451		Off Peak Load
04/07/2025 06:00	14.877	308470.500	37.227	13.091	0.001	9.838		Off Peak Load
04/07/2025 07:00	14.857	304240.188	36.723	14.004	0.001	6.840		Off Peak Load
04/07/2025 08:00	14.824	288771.469	34.585	11.109	0.001	6.951		Off Peak Load
04/07/2025 09:00	14.839	280565.688	33.379	12.552	0.001	5.313		Off Peak Load
04/07/2025 10:00	14.936	331571.469	39.933	12.737	0.000	6.338		On Peak Load
04/07/2025 11:00	14.979	325276.406	39.443	14.726	0.000	3.872		On Peak Load
04/07/2025 12:00	14.964	313660.406	37.591	14.490	0.000	3.427		On Peak Load
04/07/2025 13:00	15.169	248475.250	26.120	36.045	0.000	3.231		Off Peak Load
04/07/2025 14:00	15.011	337850.469	40.958	13.987	0.000	3.383		On Peak Load
04/07/2025 15:00	15.047	349439.750	41.542	13.493	0.000	3.704		On Peak Load
04/07/2025 16:00	15.057	348049.938	41.702	14.325	0.000	3.881		On Peak Load
04/07/2025 17:00	15.000	337386.000	40.350	13.900	0.000	4.021		On Peak Load
04/07/2025 18:00	15.023	337624.188	40.693	13.896	0.000	4.733		On Peak Load
04/07/2025 19:00	14.968	337756.625	40.882	14.067	0.000	5.747		On Peak Load
04/07/2025 20:00	14.936	322469.594	39.665	13.555	0.000	9.316		On Peak Load
04/07/2025 21:00	14.962	331725.500	40.917	14.017	0.000	9.691		On Peak Load
04/07/2025 22:00	14.968	334877.406	40.915	15.278	0.000	10.371		On Peak Load
04/07/2025 23:00	14.913	329532.000	40.008	15.098	0.000	8.010		On Peak Load
05/07/2025 00:00	14.799	303700.250	37.240	12.712	0.000	9.974		Off Peak Load
05/07/2025 01:00	14.843	309563.906	37.462	12.099	0.000	6.195		Off Peak Load
05/07/2025 02:00	14.880	314162.656	37.887	13.152	0.000	6.031		Off Peak Load
05/07/2025 03:00	14.815	297612.063	35.637	12.136	0.000	9.384		Off Peak Load
05/07/2025 04:00	14.836	302136.250	36.365	10.867	0.000	12.242		Off Peak Load
05/07/2025 05:00	14.839	304112.094	36.640	12.954	0.000	8.856		Off Peak Load
05/07/2025 06:00	14.864	288964.531	36.077	11.752	0.000	9.339		Off Peak Load
05/07/2025 07:00	14.809	286677.625	34.215	11.456	0.000	6.422		Off Peak Load
05/07/2025 08:00	14.793	285100.625	34.639	11.999	0.000	10.380		Off Peak Load
05/07/2025 09:00	14.766	287446.125	34.714	11.180	0.000	16.222		Off Peak Load
05/07/2025 10:00	14.946	317495.125	37.634	12.072	0.000	6.771		Off Peak Load
05/07/2025 11:00	14.989	350372.313	42.573	12.806	0.000	4.987		On Peak Load
05/07/2025 12:00	14.964	328670.938	39.614	13.295	0.000	3.710		

Site Name:  
Stack Name:  
Periodically:

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Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	%	FLOW @ 1 ATM m3/hr	GTG11_I_OAD MW	HRS01_NOx@74%O2 ppm	HRS01_SOx@74%O2 ppm	HRS01_Dust (74%O2) mg/m3	
07/07/2025 10:00	14.952	332780.563	40.530	14.385	0.002	6.967	On Peak Load
07/07/2025 12:00	14.982	331707.531	40.469	17.071	0.006	5.595	On Peak Load
07/07/2025 13:00	15.094	256740.281	28.188	35.332	0.006	3.924	Off Peak Load
07/07/2025 14:00	14.996	331975.188	40.425	14.540	0.005	5.084	On Peak Load
07/07/2025 15:00	14.970	341451.906	40.781	15.301	0.005	5.945	On Peak Load
07/07/2025 16:00	15.015	341887.031	41.049	15.458	0.005	5.914	On Peak Load
07/07/2025 17:00	14.998	331609.375	40.157	15.050	0.004	4.966	On Peak Load
07/07/2025 18:00	15.006	340633.656	41.013	15.603	0.004	6.177	On Peak Load
07/07/2025 19:00	14.961	338644.438	40.911	16.215	0.003	8.060	On Peak Load
07/07/2025 20:00	14.951	326709.625	39.812	15.002	0.003	8.022	On Peak Load
07/07/2025 21:00	14.968	346103.813	42.314	16.529	0.004	7.733	On Peak Load
07/07/2025 22:00	15.001	342059.531	41.609	18.772	0.004	4.917	On Peak Load
07/07/2025 23:00	14.985	331113.500	40.278	14.091	0.004	5.283	On Peak Load
08/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
08/07/2025 10:00	14.945	354062.344	42.725	15.337	0.001	12.838	On Peak Load
08/07/2025 11:00	14.963	337046.031	41.397	11.637	0.001	13.159	On Peak Load
08/07/2025 12:00	14.896	327654.406	40.081	15.177	0.000	13.373	On Peak Load
08/07/2025 13:00	15.073	250557.281	26.717	38.078	0.013	14.355	Off Peak Load
08/07/2025 14:00	14.948	333732.531	40.343	14.625	0.002	9.107	On Peak Load
08/07/2025 15:00	14.971	346999.344	41.636	16.257	0.002	8.802	On Peak Load
08/07/2025 16:00	14.901	324977.250	39.503	14.965	0.003	11.871	On Peak Load
08/07/2025 17:00	14.952	331540.063	40.415	15.668	0.003	11.673	On Peak Load
08/07/2025 18:00	14.912	335689.969	40.566	14.869	0.002	14.981	On Peak Load
08/07/2025 19:00	14.968	339974.969	41.493	15.755	0.002	12.995	On Peak Load
08/07/2025 20:00	14.973	345931.344	41.941	16.119	0.002	13.150	On Peak Load
08/07/2025 21:00	14.969	343903.750	41.912	14.692	0.003	11.865	On Peak Load
08/07/2025 22:00	14.962	346004.969	42.028	15.403	0.003	13.300	On Peak Load
08/07/2025 23:00	14.939	342551.531	41.868	16.143	0.004	13.422	On Peak Load
09/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/07/2025 10:00	14.958	330183.219	40.377	16.100	0.000	6.927	On Peak Load
09/07/2025 11:00	14.981	322158.844	39.078	17.082	0.000	7.305	On Peak Load
09/07/2025 12:00	15.000	324248.688	39.042	16.923	0.000	5.403	On Peak Load
09/07/2025 13:00	15.124	249474.125	26.013	36.390	0.000	5.259	Off Peak Load
09/07/2025 14:00	15.041	352801.563	42.888	17.288	0.000	6.245	On Peak Load
09/07/2025 15:00	15.022	343913.563	42.884	17.084	0.000	6.850	On Peak Load
09/07/2025 16:00	15.047	333767.750	40.664	16.712	0.000	7.857	On Peak Load
09/07/2025 17:00	15.026	339816.813	41.150	16.963	0.001	6.160	On Peak Load
09/07/2025 18:00	14.970	331736.406	40.428	16.099	0.001	10.272	On Peak Load
09/07/2025 19:00	14.962	332354.813	40.655	17.158	0.001	11.280	On Peak Load
09/07/2025 20:00	14.936	327840.281	39.675	15.706	0.002	5.429	On Peak Load
09/07/2025 21:00	14.957	333402.438	40.884	14.343	0.002	4.605	On Peak Load
09/07/2025 22:00	14.986	341983.906	41.611	15.394	0.002	5.510	On Peak Load
09/07/2025 23:00	14.926	341711.344	41.872	13.577	0.003	5.430	On Peak Load
10/07/2025 00:00	14.784	291730.969	34.887	12.911	0.003	4.554	Off Peak Load
10/07/2025 01:00	14.829	286918.656	34.007	10.199	0.003	7.777	Off Peak Load
10/07/2025 02:00	14.828	289950.344	34.625	11.598	0.003	8.739	Off Peak Load
10/07/2025 03:00	14.779	272411.781	32.609	12.819	0.003	14.714	Off Peak Load
10/07/2025 04:00	14.856	266238.813	31.659	15.592	0.002	12.949	Off Peak Load
10/07/2025 05:00	14.831	279860.938	33.559	10.916	0.002	12.944	Off Peak Load
10/07/2025 06:00	14.818	280270.344	33.516	12.094	0.002	11.839	Off Peak Load
10/07/2025 07:00	14.826	268479.906	31.215	10.737	0.001	12.049	Off Peak Load
10/07/2025 08:00	14.979	261182.172	29.685	25.364	0.001	9.280	Off Peak Load
10/07/2025 09:00	14.933	272925.281	31.541	15.413	0.000	6.572	Off Peak Load
10/07/2025 10:00	14.929	269784.000	32.097	13.203	0.000	5.116	Off Peak Load
10/07/2025 11:00	14.997	261015.578	29.216	17.460	0.000	4.020	Off Peak Load
10/07/2025 12:00	15.051	267042.469	30.146	25.978	0.000	4.324	Off Peak Load
10/07/2025 13:00	15.020	265944.939	30.934	24.693	0.000	3.929	Off Peak Load
10/07/2025 14:00	14.996	264910.344	29.840	18.318	0.000	3.947	Off Peak Load
10/07/2025 15:00	15.043	260483.844	29.426	26.965	0.000	4.828	Off Peak Load

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS011  
TUE025 00:00 - 31JUL25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	%	FLOW @ 1 ATM m3/hr	MW	HRS01_NOx@74%O2 ppm	HRS01_SOx@74%O2 ppm	HRS01_Dust (74%O2) mg/m3	
10/07/2025 16:00	14.968	268207.938	30.758	21.301	0.000	4.336	Off Peak Load
10/07/2025 17:00	14.905	267568.500	31.602	15.677	0.000	5.331	Off Peak Load
10/07/2025 18:00	14.886	272834.406	31.900	13.180	0.000	6.844	Off Peak Load
10/07/2025 19:00	15.018	364301.688	44.787	19.879	0.000	13.791	Off Peak Load
10/07/2025 20:00	14.916	368579.563	45.278	21.829	0.000	13.941	On Peak Load
10/07/2025 21:00	14.918	369014.125	45.301	18.935	0.000	12.749	Off Peak Load
10/07/2025 22:00	14.992	365577.875	45.259	18.864	0.001	11.093	On Peak Load
10/07/2025 23:00	14.771	271910.219	32.451	10.979	0.001	13.017	Off Peak Load
11/07/2025 00:00	14.896	264622.469	30.481	19.457	0.001	8.501	Off Peak Load
11/07/2025 01:00	14.838	270506.781	31.789	9.554	0.001	10.840	Off Peak Load
11/07/2025 02:00	14.860	270310.563	32.045	10.404	0.001	9.680	Off Peak Load
11/07/2025 03:00	14.908	268340.188	30.208	12.698	0.001	10.439	Off Peak Load
11/07/2025 04:00	14.943	264172.031	30.337	23.648	0.001	8.189	Off Peak Load
11/07/2025 05:00	14.939	267504.156	31.584	24.063	0.000	8.018	Off Peak Load
11/07/2025 06:00	14.814	275800.969	32.524	11.378	0.000	8.710	Off Peak Load
11/07/2025 07:00	14.870	269457.438	31.544	11.177	0.000	7.970	Off Peak Load
11/07/2025 08:00	14.959	261184.188	29.771	24.644	0.000	8.887	Off Peak Load
11/07/2025 09:00	14.936	268270.156	30.664	17.567	0.000	6.771	Off Peak Load
11/07/2025 10:00	14.971	265662.219	30.182	24.096	0.000	7.022	Off Peak Load
11/07/2025 11:00	15.001	260971.938	29.459	25.042	0.000	6.148	Off Peak Load
11/07/2025 12:00	15.045	256293.313	28.626	28.997	0.000	4.642	Off Peak Load
11/07/2025 13:00	15.142	252599.875	27.100	33.291	0.000	4.231	Off Peak Load
11/07/2025 14:00	14.986	261370.938	29.120	15.417	0.000	3.196	Off Peak Load
11/07/2025 15:00	15.018	264156.625	30.319	16.596	0.000	3.195	Off Peak Load
11/07/2025 16:00	14.982	268801.313	31.234	19.478	0.000	3.041	Off Peak Load
11/07/2025 17:00	14.999	265272.531	30.406	14.448	0.000	3.714	Off Peak Load
11/07/2025 18:00	15.072	252638.984	27.364	30.042	0.000	3.820	Off Peak Load
11/07/2025 19:00	15.024	333379.500	40.408	14.093	0.000	4.589	On Peak Load
11/07/2025 20:00	14.956	329181.500	40.014	14.669	0.000	5.458	On Peak Load
11/07/2025 21:00	15.026	333863.063	40.766	14.848	0.000	6.543	On Peak Load
11/07/2025 22:00	14.957	330584.781	40.713	14.348	0.000	7.139	On Peak Load
11/07/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
12/07/2025 10:00	14.944	323378.469	37.974	14.614	0.003	6.296	On Peak Load
12/07/2025 11:00	14.982	315368.906	37.089	14.961	0.003	5.023	On Peak Load
12/07/2025 12:00	15.051	307068.938	36.285	16.418	0.003	3.991	On Peak Load
12/07/2025 13:00	15.383	232307.203	22.278	47.648	0.003	3.804	Off Peak Load
12/0							

Site Name:  
Stack Name:  
Periodically:

GRILL2  
HRS011  
11/01/25 00:00 - 31/01/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q	FLOW @ 1 ATM	GTG11_LOAD	HRS01_NOx@74%Q	HRS01_SOx@74%Q	HRS01_Dust@74%Q	
		m <sup>3</sup> /hr	MW	ppm	ppm	mg/m <sup>3</sup>	
13/07/2025 21:00	14.929	329554.375	39.751	13.680	0.003	11.309	On Peak Load
13/07/2025 22:00	14.966	333359.781	40.457	14.445	0.003	11.042	On Peak Load
13/07/2025 23:00	14.917	260198.797	29.007	27.276	0.002	10.415	Off Peak Load
14/07/2025 00:00	14.946	256684.516	28.813	25.789	0.002	6.449	Off Peak Load
14/07/2025 01:00	14.980	262760.250	29.576	27.109	0.002	9.838	Off Peak Load
14/07/2025 02:00	14.973	261983.688	30.066	29.384	0.002	7.757	Off Peak Load
14/07/2025 03:00	14.983	264322.531	30.095	25.557	0.001	9.514	Off Peak Load
14/07/2025 04:00	14.975	261071.063	29.031	27.122	0.001	11.555	Off Peak Load
14/07/2025 05:00	14.922	260936.203	29.241	19.998	0.001	10.896	Off Peak Load
14/07/2025 06:00	14.928	266216.375	30.331	24.985	0.000	6.655	Off Peak Load
14/07/2025 07:00	14.899	265885.719	30.559	23.345	0.000	6.510	Off Peak Load
14/07/2025 08:00	14.922	266368.094	30.831	20.158	0.000	7.044	Off Peak Load
14/07/2025 09:00	14.910	271609.250	31.135	8.845	0.000	5.039	Off Peak Load
14/07/2025 10:00	15.010	355490.563	42.941	13.649	0.000	5.484	On Peak Load
14/07/2025 11:00	14.991	355947.063	42.408	13.428	0.000	6.672	On Peak Load
14/07/2025 12:00	14.944	335435.000	41.063	15.494	0.000	6.495	On Peak Load
14/07/2025 13:00	15.003	256885.922	27.963	31.303	0.000	5.216	Off Peak Load
14/07/2025 14:00	14.936	343599.438	41.822	12.989	0.000	5.612	On Peak Load
14/07/2025 15:00	14.982	342663.531	41.288	13.428	0.000	5.679	On Peak Load
14/07/2025 16:00	15.008	347445.531	41.968	14.038	0.000	6.543	On Peak Load
14/07/2025 17:00	15.023	350047.781	41.800	14.979	0.000	7.747	On Peak Load
14/07/2025 18:00	15.009	346567.906	41.283	14.137	0.000	7.250	On Peak Load
14/07/2025 19:00	14.981	343923.781	41.653	16.607	0.000	8.731	On Peak Load
14/07/2025 20:00	14.961	335654.406	40.596	15.390	0.000	14.356	On Peak Load
14/07/2025 21:00	14.980	341936.719	41.391	13.524	0.000	9.212	On Peak Load
14/07/2025 22:00	14.938	347773.875	41.811	14.797	0.001	17.507	On Peak Load
14/07/2025 23:00	14.910	334968.719	40.661	13.513	0.001	9.407	On Peak Load
15/07/2025 00:00	14.780	301143.688	36.100	12.670	0.001	10.457	Off Peak Load
15/07/2025 01:00	14.842	318567.969	38.338	11.618	0.001	11.329	Off Peak Load
15/07/2025 02:00	14.844	316046.313	38.181	13.878	0.000	9.385	Off Peak Load
15/07/2025 03:00	14.824	313566.406	38.163	10.779	0.000	6.987	Off Peak Load
15/07/2025 04:00	14.836	310898.281	37.087	12.770	0.000	12.742	Off Peak Load
15/07/2025 05:00	14.856	322543.563	39.126	12.264	0.000	9.263	Off Peak Load
15/07/2025 06:00	14.778	296135.750	35.297	13.247	0.000	6.255	Off Peak Load
15/07/2025 07:00	14.764	298271.344	36.382	11.393	0.000	5.088	Off Peak Load
15/07/2025 08:00	14.809	280479.406	32.864	9.806	0.000	6.787	Off Peak Load
15/07/2025 09:00	14.848	279374.938	32.696	9.278	0.000	7.413	Off Peak Load
15/07/2025 10:00	14.938	317374.531	37.669	13.069	0.000	6.924	On Peak Load
15/07/2025 11:00	14.911	310103.688	36.893	14.585	0.000	6.061	On Peak Load
15/07/2025 12:00	14.921	300487.094	35.847	15.008	0.000	6.061	On Peak Load
15/07/2025 13:00	15.246	240372.000	22.926	40.577	0.001	5.494	Off Peak Load
15/07/2025 14:00	14.987	330690.875	38.289	16.104	0.001	5.346	On Peak Load
15/07/2025 15:00	14.965	322920.500	39.645	15.091	0.002	6.113	On Peak Load
15/07/2025 16:00	14.957	315789.219	37.553	15.692	0.003	5.442	On Peak Load
15/07/2025 17:00	14.956	320554.438	38.649	16.143	0.003	6.831	On Peak Load
15/07/2025 18:00	14.950	325609.563	39.103	16.451	0.002	7.774	On Peak Load
15/07/2025 19:00	14.896	315449.875	38.107	15.339	0.002	10.222	On Peak Load
15/07/2025 20:00	14.918	320070.250	38.897	15.965	0.002	11.114	On Peak Load
15/07/2025 21:00	14.906	319392.938	38.581	15.810	0.001	10.037	On Peak Load
15/07/2025 22:00	14.920	317553.188	38.482	13.919	0.001	10.739	On Peak Load
15/07/2025 23:00	14.920	318585.375	38.368	15.490	0.001	11.294	On Peak Load
16/07/2025 00:00	14.797	286967.625	34.494	11.914	0.000	11.543	Off Peak Load
16/07/2025 01:00	14.870	313209.563	37.218	15.101	0.000	12.841	Off Peak Load
16/07/2025 02:00	14.883	305030.844	36.790	14.931	0.000	11.783	Off Peak Load
16/07/2025 03:00	14.868	302388.688	36.313	12.265	0.000	13.591	Off Peak Load
16/07/2025 04:00	14.861	300888.469	35.964	12.880	0.000	13.717	Off Peak Load
16/07/2025 05:00	14.791	296601.031	35.416	13.445	0.000	10.473	Off Peak Load
16/07/2025 06:00	14.824	303642.906	36.033	13.900	0.000	7.823	Off Peak Load
16/07/2025 07:00	14.798	292969.469	35.539	12.844	0.000	12.296	Off Peak Load
16/07/2025 08:00	14.802	290796.250	34.905	11.997	0.000	7.194	Off Peak Load
16/07/2025 09:00	14.808	278495.969	32.825	10.153	0.001	5.664	Off Peak Load
16/07/2025 10:00	14.987	345504.250	40.017	14.016	0.001	5.558	On Peak Load
16/07/2025 11:00	14.979	345773.063	41.544	14.291	0.001	7.936	On Peak Load
16/07/2025 12:00	14.975	333436.844	39.956	14.632	0.001	8.107	On Peak Load
16/07/2025 13:00	15.061	253161.703	26.852	33.413	0.001	7.201	Off Peak Load
16/07/2025 14:00	15.032	341874.250	41.083	14.886	0.001	6.052	On Peak Load
16/07/2025 15:00	15.017	366564.406	44.462	19.513	0.001	7.251	On Peak Load
16/07/2025 16:00	14.995	367610.375	44.641	19.650	0.002	7.477	On Peak Load
16/07/2025 17:00	14.987	334804.438	40.110	16.679	0.002	8.102	On Peak Load
16/07/2025 18:00	14.956	331209.781	39.660	15.769	0.002	9.319	On Peak Load
16/07/2025 19:00	14.933	331763.469	40.504	15.444	0.002	10.185	On Peak Load
16/07/2025 20:00	14.934	323549.156	39.204	15.940	0.002	10.367	On Peak Load
16/07/2025 21:00	14.948	335431.500	40.571	14.962	0.002	10.973	On Peak Load
16/07/2025 22:00	14.969	337557.719	40.823	15.908	0.002	12.404	On Peak Load
16/07/2025 23:00	14.976	335835.688	40.857	15.422	0.002	13.170	On Peak Load
17/07/2025 00:00	14.802	300046.063	35.891	13.500	0.002	11.653	Off Peak Load

Site Name:  
Stack Name:  
Periodically:

GRILL2  
HRS011  
11/01/25 00:00 - 31/01/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q	FLOW @ 1 ATM	GTG11_LOAD	HRS01_NOx@74%Q	HRS01_SOx@74%Q	HRS01_Dust@74%Q	
		m <sup>3</sup> /hr	MW	ppm	ppm	mg/m <sup>3</sup>	
17/07/2025 01:00	14.847	315316.250	37.772	12.555	0.002	17.365	Off Peak Load
17/07/2025 02:00	14.831	307061.656	37.207	14.217	0.002	11.186	Off Peak Load
17/07/2025 03:00	14.866	319625.906	37.601	15.073	0.002	7.609	Off Peak Load
17/07/2025 04:00	14.853	305153.000	37.066	12.205	0.002	13.673	Off Peak Load
17/07/2025 05:00	14.831	317488.344	38.632	12.904	0.002	13.279	Off Peak Load
17/07/2025 06:00	14.828	310013.938	37.292	12.414	0.002	11.963	Off Peak Load
17/07/2025 07:00	14.809	298326.156	36.185	12.547	0.002	7.170	Off Peak Load
17/07/2025 08:00	14.801	282682.031	34.077	12.162	0.002	4.973	Off Peak Load
17/07/2025 09:00	14.874	316910.344	38.246	12.437	0.001	5.829	Off Peak Load
17/07/2025 10:00	15.026	357564.000	42.058	13.731	0.001	7.155	On Peak Load
17/07/2025 11:00	15.028	333730.094	40.166	16.158	0.001	7.525	On Peak Load
17/07/2025 12:00	14.968	325474.175	39.458	15.820	0.001	8.052	On Peak Load
17/07/2025 13:00	14.951	264125.844	29.527	30.058	0.000	6.344	Off Peak Load
17/07/2025 14:00	15.086	358570.500	43.354	17.573	0.000	6.081	On Peak Load
17/07/2025 15:00	15.072	343742.188	39.920	18.082	0.000	5.817	On Peak Load
17/07/2025 16:00	15.060	351731.000	41.819	17.105	0.000	5.930	On Peak Load
17/07/2025 17:00	15.022	336943.875	40.451	17.547	0.000	5.608	On Peak Load
17/07/2025 18:00	14.993	338490.063	40.548	16.615	0.000	7.854	On Peak Load
17/07/2025 19:00	14.992	344046.000	41.409	16.635	0.000	10.890	On Peak Load
17/07/2025 20:00	14.945	332032.344	40.307	17.909	0.000	7.194	On Peak Load
17/07/2025 21:00	14.936	333783.313	41.795	17.317	0.001	8.102	On Peak Load
17/07/2025 22:00	14.931	335663.406	40.399	14.835	0.001	10.419	On Peak Load
17/07/2025 23:00	14.921	335710.344	41.195	14.335	0.001	10.799	On Peak Load
18/07/2025 00:00	14.804	302792.844	36.276	12.486	0.001	9.838	Off Peak Load
18/07/2025 01:00	14.871	311530.500	37.593	14.768	0.001	9.121	Off Peak Load
18/07/2025 02:00	14.881	324998.469	39.483	12.626	0.001	6.395	Off Peak Load
18/07/2025 03:00	14.859	305079.531	36.900	11.322	0.001	9.672	Off Peak Load
18/07/2025 04:00	14.828	301456.094	36.059	11.745	0.001	7.724	Off Peak Load
18/07/2025 05:00	14.850	304935.438	36.873	13.919	0.000	11.653	Off Peak Load
18/07/2025 06:00	14.811	305449.438	37.544	11.464	0.000	9.707	Off Peak Load
18/07/2025 07:00	14.914	317305.906	38.100	12.318	0.000	12.631	Off Peak Load
18/07/2025 08:00	14.841	293685.344	34.923	12.237	0.000	12.372	Off Peak Load
18/07/2025 09:00	14.890	298559.344	35.277	12.940	0.000	9.936	Off Peak Load
18/07/2025 10:00	15.023	339858.844	41.628	14.584	0.000	6.772	On Peak Load
18/07/2025 11:00	15.032	343380.219	40.325	15.330	0.000	6.246	On Peak Load
18/07/2025 12:00	15.011	319472.375	38.703	14.620	0.000	5.344	On Peak Load
18/07/2025 13:00	15.262	238541.938	23.909	42.343	0.000	5.036	Off Peak Load
18/07/2025 14:00	15.007	335305.375	39.939	16.2			

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRS/G11  
T00K25 00 00 - 31Jul025 23 59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark	
	Q	FLOW @1 ATM	GT/G11_I_OAD	HRS/G1_NOx@74%Q	HRS/G1_SOx@74%Q	HRS/G1_Dust (74%Q)		
	%	m3/hr	MW	ppm	ppm	mg/m3		
20/07/2025 05:00	14.851	288588.031	34.025	13.188	0.000	11.098	Off Peak Load	
20/07/2025 06:00	14.956	303641.938	36.789	11.430	0.000	16.782	Off Peak Load	
20/07/2025 07:00	14.778	280521.969	33.521	13.284	0.000	13.171	Off Peak Load	
20/07/2025 08:00	14.931	261814.438	29.965	24.172	0.000	9.862	Off Peak Load	
20/07/2025 09:00	14.893	276290.719	32.443	12.343	0.000	8.917	Off Peak Load	
20/07/2025 10:00	14.899	276305.031	32.255	12.634	0.000	6.582	Off Peak Load	
20/07/2025 11:00	14.876	273567.719	32.018	12.842	0.000	6.744	Off Peak Load	
20/07/2025 12:00	14.961	267499.469	30.616	17.461	0.000	6.737	Off Peak Load	
20/07/2025 13:00	14.911	274375.719	32.005	11.773	0.000	6.206	Off Peak Load	
20/07/2025 14:00	14.850	274294.875	31.965	13.325	0.000	7.441	Off Peak Load	
20/07/2025 15:00	14.906	271938.063	30.958	13.695	0.000	6.489	Off Peak Load	
20/07/2025 16:00	14.859	285570.906	33.352	13.100	0.000	6.830	Off Peak Load	
20/07/2025 17:00	14.857	278472.688	32.871	13.764	0.000	8.741	Off Peak Load	
20/07/2025 18:00	14.857	282410.969	33.680	16.946	0.000	14.110	Off Peak Load	
20/07/2025 19:00	14.968	346089.031	41.628	17.096	0.000	17.211	On Peak Load	
20/07/2025 20:00	14.892	327535.844	39.706	14.247	0.000	16.666	On Peak Load	
20/07/2025 21:00	14.936	326883.594	39.596	16.428	0.000	17.500	On Peak Load	
20/07/2025 22:00	14.937	339256.969	40.923	14.564	0.000	18.483	On Peak Load	
20/07/2025 23:00	15.005	367642.781	45.474	20.045	0.000	12.983	Off Peak Load GT12 SD Half Block	
21/07/2025 00:00	15.030	351936.156	43.314	18.346	0.000	10.327	Off Peak Load GT12 SD Half Block	
21/07/2025 01:00	15.031	354682.563	43.430	16.860	0.000	11.478	Off Peak Load GT12 SD Half Block	
21/07/2025 02:00	15.033	354751.500	43.445	16.978	0.000	12.849	Off Peak Load GT12 SD Half Block	
21/07/2025 03:00	15.034	354107.875	43.480	16.720	0.000	10.575	Off Peak Load GT12 SD Half Block	
21/07/2025 04:00	15.046	351341.375	43.286	17.348	0.000	10.016	Off Peak Load GT12 SD Half Block	
21/07/2025 05:00	15.006	368629.406	45.429	18.010	0.000	13.274	Off Peak Load GT12 SD Half Block	
21/07/2025 06:00	15.027	251266.422	27.550	36.557	0.000	12.160	Off Peak Load	
21/07/2025 07:00	15.043	251816.531	27.094	34.535	0.000	12.088	Off Peak Load	
21/07/2025 08:00	15.038	250444.969	26.984	34.770	0.000	12.978	Off Peak Load	
21/07/2025 09:00	15.009	258068.328	27.996	31.243	0.000	9.953	Off Peak Load	
21/07/2025 10:00	15.014	343950.969	41.235	15.506	0.000	8.444	On Peak Load	
21/07/2025 11:00	15.087	348042.938	42.028	18.130	0.000	9.971	On Peak Load	
21/07/2025 12:00	14.929	326552.594	39.686	15.376	0.000	13.632	On Peak Load	
21/07/2025 13:00	15.018	255673.281	27.399	35.089	0.000	8.687	Off Peak Load	
21/07/2025 14:00	15.060	348477.688	42.032	16.741	0.000	7.637	On Peak Load	
21/07/2025 15:00	15.037	336034.906	41.007	16.860	0.000	7.749	On Peak Load	
21/07/2025 16:00	15.050	345803.594	42.021	17.517	0.000	8.471	On Peak Load	
21/07/2025 17:00	15.062	349276.938	41.791	18.257	0.000	7.218	On Peak Load	
21/07/2025 18:00	14.987	337670.531	41.015	16.913	0.001	9.635	On Peak Load	
21/07/2025 19:00	14.993	341961.656	41.548	16.795	0.001	12.207	On Peak Load	
21/07/2025 20:00	14.997	337920.813	40.824	17.674	0.001	12.441	On Peak Load	
21/07/2025 21:00	14.987	346324.250	41.712	16.360	0.001	15.045	On Peak Load	
21/07/2025 22:00	14.960	341596.063	41.236	17.007	0.001	9.704	On Peak Load	
21/07/2025 23:00	14.962	337503.938	40.859	17.728	0.001	12.795	On Peak Load	
22/07/2025 00:00	15.026	357847.656	43.761	16.304	0.001	13.580	Off Peak Load GT12 SD Half Block	
22/07/2025 01:00	15.024	354342.469	43.429	16.177	0.001	12.082	Off Peak Load GT12 SD Half Block	
22/07/2025 02:00	15.021	356296.813	43.434	16.406	0.000	12.877	Off Peak Load GT12 SD Half Block	
22/07/2025 03:00	15.019	353235.031	43.469	17.210	0.000	11.429	Off Peak Load GT12 SD Half Block	
22/07/2025 04:00	15.016	351366.844	43.467	17.651	0.000	11.502	Off Peak Load GT12 SD Half Block	
22/07/2025 05:00	15.043	352504.125	43.542	18.582	0.000	11.154	Off Peak Load GT12 SD Half Block	
22/07/2025 06:00	15.018	357851.063	43.429	17.865	0.000	12.109	Off Peak Load GT12 SD Half Block	
22/07/2025 07:00	15.002	356127.375	43.585	16.540	0.000	15.063	Off Peak Load GT12 SD Half Block	
22/07/2025 08:00	15.011	354085.813	43.590	17.066	0.000	17.592	Off Peak Load GT12 SD Half Block	
22/07/2025 09:00	14.989	356313.406	44.143	15.833	0.000	17.522	Off Peak Load GT12 SD Half Block	
22/07/2025 10:00	14.939	338233.219	41.035	15.417	0.000	16.332	On Peak Load	
22/07/2025 11:00	14.919	327442.469	39.665	14.408	0.000	12.330	On Peak Load	
22/07/2025 12:00	14.924	322206.938	38.504	14.078	0.000	10.157	On Peak Load	
22/07/2025 13:00	15.188	241139.750	24.515	38.103	0.000	9.129	Off Peak Load	
22/07/2025 14:00	14.910	317100.063	37.819	14.684	0.000	7.839	On Peak Load	
22/07/2025 15:00	14.950	314243.531	37.526	14.124	0.000	9.168	On Peak Load	
22/07/2025 16:00	14.936	314269.031	37.554	15.805	0.001	8.855	On Peak Load	
22/07/2025 17:00	14.898	305124.313	36.780	14.876	0.001	12.637	On Peak Load	
22/07/2025 18:00	14.888	309363.875	36.951	15.149	0.001	13.108	On Peak Load	
22/07/2025 19:00	14.912	309150.250	36.909	15.314	0.001	12.152	On Peak Load	
22/07/2025 20:00	14.901	310208.656	37.143	14.356	0.001	13.068	On Peak Load	
22/07/2025 21:00	14.900	303960.375	36.753	14.295	0.001	13.381	On Peak Load	
22/07/2025 22:00	14.900	303409.156	36.484	14.573	0.002	13.692	On Peak Load	
22/07/2025 23:00	14.914	305069.563	36.764	14.269	0.002	11.021	On Peak Load	
23/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 10:00	14.929	324285.125	38.640	16.866	0.003	10.483	On Peak Load	
23/07/2025 11:00	15.001	309413.844	36.931	17.802	0.002	7.333	On Peak Load	
23/07/2025 12:00	14.956	306614.063	36.864	17.391	0.001	7.401	On Peak Load	

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRS/G11  
T00K25 00 00 - 31Jul025 23 59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark	
	Q	FLOW @1 ATM	GT/G11_I_OAD	HRS/G1_NOx@74%Q	HRS/G1_SOx@74%Q	HRS/G1_Dust (74%Q)		
	%	m3/hr	MW	ppm	ppm	mg/m3		
23/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block	
23/07/2025 10:00	14.874	299946.156	35.413	15.066	0.002	8.264	On Peak Load	
23/07/2025 11:00	14.902	292110.656	34.224	16.167	0.002	7.868	On Peak Load	
23/07/2025 12:00	14.887	294940.938	35.026	15.211	0.002	7.446	On Peak Load	
23/07/2025 13:00	15.430	222124.641	20.488	47.938	0.001	8.080	Off Peak Load	
23/07/2025 14:00	14.874	307108.000	36.485	13.891	0.001	8.494	On Peak Load	
23/07/2025 15:00	14.858	302787.063	36.275	14.955	0.001	19.628	On Peak Load	
23/07/2025 16:00	14.904	307788.594	36.834	15.413	0.001	8.641	On Peak Load	
23/07/2025 17:00	14.875	299395.375	35.881	14.824	0.001	10.657	On Peak Load	
23/07/2025 18:00	14.909	305954.344	36.652	15.464	0.000	11.154	On Peak Load	
23/07/2025 19:00	14.911	304453.656	36.668	16.009	0.000	9.919	On Peak Load	
23/07/2025 20:00	14.896	303050.375	36.326	15.288	0.000	12.201	On Peak Load	
23/07/2025 21:00	14.879	303532.938	36.370	14.474	0.000	12.512	On Peak Load	
23/07/2025 22:00	14.881	301817.563	36.150	15.242	0.002	10.981	On Peak Load	
23/07/2025 23:00	14.897	306664.125	36.496	14.502	0.000	12.679	On Peak Load	
24/07/2025 00:00	15.050	356271.063	43.334	19.819	0.000	12.443	Off Peak Load GT12 SD Half Block	
24/07/2025 01:00	15.051	354590.563	43.324	17.435	0.000	11.110	Off Peak Load GT12 SD Half Block	
24/07/2025 02:00	15.051	352587.219	43.395	17.908	0.000	12.902	Off Peak Load GT12 SD Half Block	
24/07/2025 03:00	15.051	355473.000	43.385	18.649	0.000	11.820	Off Peak Load GT12 SD Half Block	
24/07/2025 04:00	15.052	354357.844	43.671	18.077	0.001	12.254	Off Peak Load GT12 SD Half Block	
24/07/2025 05:00	15.052	356202.375	43.683	18.201	0.001	13.150	Off Peak Load GT12 SD Half Block	
24/07/2025 06:00	15.052	353367.281	43.445	17.586	0.001	14.142	Off Peak Load GT12 SD Half Block	
24/07/2025 07:00	15.053	355341.844	43.500	18.584	0.002	12.632	Off Peak Load GT12 SD Half Block	
24/07/2025 08:00	15.076	355083.906	43.441	17.479	0.002	12.090	Off Peak Load GT12 SD Half Block	
24/07/2025 09:00	15.076	358227.188	43.724	16.860	0.003	10.726	Off Peak Load GT12 SD Half Block	
24/07/2025 10:00	14.940	314567.438	37.597	15.593	0.002	8.156	On Peak Load	
24/07/2025 11:00	14.948	302550.813	36.072	16.461	0.002	7.756	On Peak Load	
24/07/2025 12:00	14.904	288400.156	33.983	16.204	0.002	6.585	On Peak Load	
24/07/2025 13:00	15.339	232407.750	22.488	46.203	0.001	7.042	Off Peak Load	
24/07/2025 14:00	14.923	303822.531	35.676	15.731	0.001	5.548	On Peak Load	
24/07/2025 15:00	14.984	308746.563	36.518	17.109	0.001	5.899	On Peak Load	
24/07/2025 16:00	15.006	328656.844	39.210	16.937	0.000	6.387	On Peak Load	
24/07/2025 17:00	14.936	325461.750	38.979	16.389				

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS011  
TUE025 00:00 - 31JUL025 23:59

Date & Time		Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
		%	FLOW @ 1 ATM m3/hr	GTG11_I_OAD	ppm	ppm	mg/m3	
		%	25C		HRS01_NOx@74%O2	HRS01_SOx@74%O2	HRS01_Dust (74%O2)	
		%	MW					
26/07/2025 13:00	15.323	232505.219	22.258	46.432	0.001	5.937		Off Peak Load
26/07/2025 14:00	14.942	325535.344	38.784	17.182	0.000	7.375		On Peak Load
26/07/2025 15:00	15.015	332611.125	39.555	18.250	0.000	7.606		On Peak Load
26/07/2025 16:00	14.941	316749.219	38.707	18.316	0.000	8.549		On Peak Load
26/07/2025 17:00	14.966	311801.844	37.682	18.108	0.000	7.919		On Peak Load
26/07/2025 18:00	14.960	319004.344	38.234	18.086	0.000	9.717		On Peak Load
26/07/2025 19:00	14.957	330798.844	39.479	17.479	0.000	14.808		On Peak Load
26/07/2025 20:00	14.926	311164.375	37.061	17.286	0.003	14.167		On Peak Load
26/07/2025 21:00	14.910	326093.063	39.853	16.459	0.001	14.989		On Peak Load
26/07/2025 22:00	14.929	332036.000	39.576	16.800	0.001	18.486		On Peak Load
26/07/2025 23:00	14.952	331142.438	39.622	15.832	0.002	10.447		On Peak Load
27/07/2025 00:00	14.969	354593.719	43.954	19.418	0.002	18.340		Off Peak Load GT12 SD Half Block
27/07/2025 01:00	14.972	350544.313	43.539	17.732	0.003	16.423		Off Peak Load GT12 SD Half Block
27/07/2025 02:00	14.975	350698.531	43.542	17.495	0.003	12.203		Off Peak Load GT12 SD Half Block
27/07/2025 03:00	14.978	350118.063	43.505	17.176	0.002	9.999		Off Peak Load GT12 SD Half Block
27/07/2025 04:00	14.981	351271.156	43.486	16.735	0.002	8.833		Off Peak Load GT12 SD Half Block
27/07/2025 05:00	14.984	354025.938	43.353	17.261	0.002	9.229		Off Peak Load GT12 SD Half Block
27/07/2025 06:00	14.987	353426.156	43.409	16.327	0.001	12.248		Off Peak Load GT12 SD Half Block
27/07/2025 07:00	14.990	353923.750	43.467	16.191	0.001	18.256		Off Peak Load GT12 SD Half Block
27/07/2025 08:00	14.991	353025.250	43.245	17.356	0.000	19.104		Off Peak Load GT12 SD Half Block
27/07/2025 09:00	14.994	366502.813	45.411	19.490	0.000	17.009		Off Peak Load GT12 SD Half Block
27/07/2025 10:00	15.001	366388.813	45.053	19.926	0.000	12.710		Off Peak Load GT12 SD Half Block
27/07/2025 11:00	15.007	368304.688	44.948	21.170	0.000	10.322		Off Peak Load GT12 SD Half Block
27/07/2025 12:00	15.007	365431.469	44.905	21.583	0.001	11.560		Off Peak Load GT12 SD Half Block
27/07/2025 13:00	15.003	362484.094	44.626	20.380	0.001	9.283		Off Peak Load GT12 SD Half Block
27/07/2025 14:00	14.998	363400.313	44.710	21.592	0.001	11.212		Off Peak Load GT12 SD Half Block
27/07/2025 15:00	15.000	368589.063	45.215	21.922	0.001	13.005		Off Peak Load GT12 SD Half Block
27/07/2025 16:00	15.002	364192.813	44.944	21.042	0.001	13.109		Off Peak Load GT12 SD Half Block
27/07/2025 17:00	15.005	366497.594	44.935	22.238	0.001	12.594		Off Peak Load GT12 SD Half Block
27/07/2025 18:00	15.007	364935.406	44.969	23.414	0.001	12.796		Off Peak Load
27/07/2025 19:00	14.877	311992.781	37.632	16.855	0.001	11.612		On Peak Load
27/07/2025 20:00	14.892	310893.344	37.518	17.930	0.001	15.769		On Peak Load
27/07/2025 21:00	14.938	319681.094	39.165	18.023	0.001	18.369		On Peak Load
27/07/2025 22:00	14.906	315041.656	37.510	15.909	0.001	15.809		On Peak Load
27/07/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown		Off Peak Load GT11 SD Half Block
28/07/2025 19:00	14.841	315400.781	37.264	16.711	0.000	15.345		On Peak Load
28/07/2025 20:00	14.937	313114.469	37.482	17.326	0.000	14.670		On Peak Load
28/07/2025 21:00	14.889	312260.656	37.774	17.088	0.000	18.299		On Peak Load
28/07/2025 22:00	14.892	312814.000	37.309	16.516	0.000	15.623		On Peak Load
28/07/2025 23:00	15.015	258948.266	27.839	32.186	0.000	15.427		Off Peak Load
29/07/2025 00:00	15.072	256884.328	28.065	35.566	0.000	11.925		Off Peak Load
29/07/2025 01:00	15.058	259265.453	28.603	33.873	0.000	13.225		Off Peak Load
29/07/2025 02:00	15.024	256976.781	28.585	34.232	0.001	14.353		Off Peak Load
29/07/2025 03:00	15.045	254394.234	27.327	34.974	0.001	15.447		Off Peak Load
29/07/2025 04:00	15.015	258776.859	28.451	30.594	0.000	15.510		Off Peak Load
29/07/2025 05:00	15.045	256861.234	27.631	33.540	0.000	19.601		Off Peak Load
29/07/2025 06:00	15.061	253791.219	27.381	34.150	0.000	17.875		Off Peak Load
29/07/2025 07:00	15.044	255527.531	27.804	36.434	0.000	21.135		Off Peak Load
29/07/2025 08:00	15.016	259819.203	28.675	30.879	0.000	13.197		Off Peak Load
29/07/2025 09:00	14.906	274131.875	31.752	21.209	0.000	13.435		Off Peak Load
29/07/2025 10:00	14.936	324623.156	37.697	16.305	0.000	11.980		On Peak Load
29/07/2025 11:00	14.973	343662.406	40.864	17.309	0.000	12.643		On Peak Load
29/07/2025 12:00	14.957	314843.500	37.686	17.673	0.000	9.760		On Peak Load
29/07/2025 13:00	15.229	242049.688	23.712	40.889	0.001	10.294		Off Peak Load
29/07/2025 14:00	14.998	341995.438	41.093	17.810	0.001	10.177		On Peak Load
29/07/2025 15:00	15.009	338603.563	40.963	18.293	0.002	11.515		On Peak Load
29/07/2025 16:00	15.047	338936.500	40.266	19.479	0.003	8.307		On Peak Load

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS011  
TUE025 00:00 - 31JUL025 23:59

		Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @ 1 ATM 25C	GTG11_I_OAD	HRS01_NOx@74%O2	HRS01_SOx@74%O2	HRS01_Dust (74%O2)	Remark
	%	m3/hr	MW	ppm	ppm	mg/m3	
29/07/2025 17:00	14.984	331827.063	39.812	18.094	0.004	10.656	On Peak Load
29/07/2025 18:00	14.980	335725.938	40.506	18.453	0.004	13.387	On Peak Load
29/07/2025 19:00	14.949	338937.469	40.846	17.604	0.003	17.943	On Peak Load
29/07/2025 20:00	14.961	331724.313	40.068	18.466	0.002	19.052	On Peak Load
29/07/2025 21:00	14.934	329576.438	39.894	17.942	0.002	16.616	On Peak Load
29/07/2025 22:00	14.932	333781.219	40.247	17.056	0.001	16.225	On Peak Load
29/07/2025 23:00	14.957	332632.625	40.348	18.420	0.000	13.693	On Peak Load
30/07/2025 00:00	14.790	294821.844	35.399	14.642	0.000	12.964	Off Peak Load
30/07/2025 01:00	14.873	296888.719	35.818	15.771	0.000	15.006	Off Peak Load
30/07/2025 02:00	14.878	307082.750	36.798	16.020	0.000	16.428	Off Peak Load
30/07/2025 03:00	14.873	292625.469	35.001	15.187	0.000	13.074	Off Peak Load
30/07/2025 04:00	14.870	307393.906	36.692	14.821	0.000	16.517	Off Peak Load
30/07/2025 05:00	14.870	300910.094	35.604	14.376	0.000	17.537	Off Peak Load
30/07/2025 06:00	14.872	305000.531	36.562	13.203	0.000	17.973	Off Peak Load
30/07/2025 07:00	14.838	291912.938	34.768	16.213	0.001	15.508	Off Peak Load
30/07/2025 08:00	14.858	280558.656	33.531	14.263	0.001	12.866	Off Peak Load
30/07/2025 09:00	14.916	276895.719	32.331	14.014	0.002	13.817	Off Peak Load
30/07/2025 10:00	14.962	326932.844	39.222	17.500	0.002	11.888	On Peak Load
30/07/2025 11:00	14.999	327660.500	39.547	18.185	0.002	10.081	On Peak Load
30/07/2025 12:00	14.963	322393.719	37.860	17.931	0.002	9.289	On Peak Load
30/07/2025 13:00	15.105	256629.969	26.670	36.339	0.002	8.221	Off Peak Load
30/07/2025 14:00	14.983	329739.781	39.500	17.158	0.002	8.117	On Peak Load
30/07/2025 15:00	15.014	334317.094	39.736	19.085	0.002	9.726	On Peak Load
30/07/2025 16:00	15.023	331968.875	39.668	18.162	0.002	9.094	On Peak Load
30/07/2025 17:00	14.948	324717.719	38.938	19.195	0.002	10.510	On Peak Load
30/07/2025 18:00	14.970	336043.875	40.191	18.059	0.002	15.887	On Peak Load
30/07/2025 19:00	14.950	329640.063	39.570	16.983	0.002	14.448	On Peak Load
30/07/2025 20:00	14.917	329857.938	39.833	17.549	0.001	13.996	On Peak Load
30/07/2025 21:00	14.947	327634.563	39.869	16.612	0.001	14.452	On Peak Load
30/07/2025 22:00	14.923	331811.156	40.143	17.573	0.001	13.133	On Peak Load
30/07/2025 23:00	14.947	331857.188	40.178	16.925	0.001	17.233	On Peak Load
31/07/2025 00:00	14.807	295682.688	35.545	12.752	0.001	16.234	Off Peak Load
31/07/2025 01:00	14.865	303053.375	36.897	14.585	0.000	15.353	Off Peak Load
31/07/2025 02:00	14.912	315784.469	37.845	14.672	0.000	15.280	Off Peak Load
31/07/2025 03:00	14.914	322463.719	38.843	15.095	0.000	16.367	Off Peak Load
31/07/2025 04:00	14.855	299686.844	35.899	14.910	0.001	17.594	Off Peak Load
31/07/2025 05:00	14.898	307656.250	36.429	15.032	0.001	16.006	Off Peak Load
31/07/2025 06:00	14.873	316881.250	38.086	14.732	0.001	16.195	Off Peak Load
31/07/2025 07:00	14.841	296125.000	34.737	14.612	0.001	18.340	Off Peak Load
31/07/2025 08:00	14.842	279433.313	33.143	14.189	0.002	11.878	Off Peak Load
31/07/2025 09:00	14.884	297977.938	32.905	14.874	0.002	10.076	Off Peak Load
31/07/2025 10:00	14.982	327951.500	39.009	16.178	0.002	10.432	On Peak Load
31/07/2025 11:00	15.001	329001.906	39.324	17.433	0.002	10.863	On Peak Load
31/07/2025 12:00	14.989	331718.438	39.958	18.332	0.002	11.915	On Peak Load
31/07/2025 13:00	15.200	251420.063	26.043	38.538	0.001	10.430	Off Peak Load
31/07/2025 14:00	15.030	343990.813	40.869	18.284	0.001	10.728	On Peak Load
31/07/2025 15:00	14.945	334577.781	40.118	18.504	0.001	9.905	On Peak Load
31/07/2025 16:00	15.001	338618.344	40.638	17.929	0.001	10.788	On Peak Load
31/07/2025 17:00	15.045	334623.281	39.844	17.975	0.001	7.912	On Peak Load
31/07/2025 18:00	15.043	332598.656	40.213	18.756	0.001	9.533	On Peak Load
31/07/2025 19:00	14.999	333962.063	40.041	18.236	0.001	13.337	On Peak Load
31/07/2025 20:00	14.963	328358.469	39.921	17.025	0.001	14.905	On Peak Load
31/07/2025 21:00	14.975	338931.344	40.753	17.569	0.001	16.204	On Peak Load
31/07/2025 22:00	14.923	323990.563	39.951	17.094	0.002	19.361	On Peak Load
31/07/2025 23:00	14.926	324563.031	39.234	15.993	0.002	17.597	On Peak Load
Minimum	14.70	222,214.64	20.49	0.00	0.00	1.58	
Maximum	15.43	369,014	46.68	47.04	0.01	23.09	
Avg	14.93	318,613	37.90	16.80	0.00	9.47	
SUM							
SIC				0	0	0	

Site Name: GRLL2  
Stack Name: HRSGL2  
Periodically: 11/01/25 00:00 - 31/01/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark	
	Q2	FLOW @1 ATM	GTG11 LOAD	ppm					
				HRSGL1 NOx@7%O2	HRSGL1 SOx@7%O2	HRSGL1 Dust@7%O2	mg/m3		
01/07/2025 00:00	14.116	224.091	41.978	32.220	0.012	9.248	On Peak Load		
01/07/2025 01:00	14.002	178.446	37.176	25.138	0.012	8.429	Off Peak Load		
01/07/2025 02:00	14.053	182.216	38.530	27.396	0.012	7.398	Off Peak Load		
01/07/2025 03:00	13.979	165.859	35.494	24.262	0.012	11.534	Off Peak Load		
01/07/2025 04:00	13.997	169.080	35.829	23.207	0.011	12.772	Off Peak Load		
01/07/2025 05:00	14.023	169.843	36.168	24.998	0.011	9.770	Off Peak Load		
01/07/2025 06:00	14.001	179.143	36.655	25.019	0.011	12.605	Off Peak Load		
01/07/2025 07:00	13.992	172.105	35.666	26.011	0.011	11.046	Off Peak Load		
01/07/2025 08:00	14.049	150.369	31.646	24.682	0.011	7.991	Off Peak Load		
01/07/2025 09:00	14.076	156.320	31.487	20.398	0.011	7.073	Off Peak Load		
01/07/2025 10:00	14.029	204.533	38.383	25.313	0.011	5.831	On Peak Load		
01/07/2025 11:00	14.154	202.710	38.590	24.959	0.011	5.344	On Peak Load		
01/07/2025 12:00	14.173	208.432	38.999	29.918	0.011	5.011	On Peak Load		
01/07/2025 13:00	14.464	124.720	23.633	40.054	0.011	4.957	Off Peak Load		
01/07/2025 14:00	14.112	215.723	38.813	24.228	0.011	5.246	On Peak Load		
01/07/2025 15:00	14.171	210.515	38.444	30.774	0.010	5.660	On Peak Load		
01/07/2025 16:00	14.140	218.351	39.102	26.124	0.011	5.320	On Peak Load		
01/07/2025 17:00	14.144	216.609	39.173	25.620	0.012	5.826	On Peak Load		
01/07/2025 18:00	14.183	214.913	40.170	28.240	0.013	6.549	On Peak Load		
01/07/2025 19:00	14.067	167.758	38.498	31.300	0.015	12.201	Off Peak Load		
01/07/2025 20:00	14.025	165.567	38.207	27.149	0.016	9.248	On Peak Load		
01/07/2025 21:00	14.014	173.031	39.243	24.429	0.017	8.429	On Peak Load		
01/07/2025 22:00	14.046	185.989	40.825	27.615	0.018	7.398	On Peak Load		
01/07/2025 23:00	14.029	174.014	38.907	30.332	0.020	11.534	On Peak Load		
02/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block		
02/07/2025 17:00	14.154	219.735	41.051	36.384	0.011	9.557	On Peak Load		
02/07/2025 18:00	14.132	208.686	40.084	32.783	0.011	9.729	On Peak Load		
02/07/2025 19:00	14.146	237.078	42.904	32.437	0.011	8.305	On Peak Load		
02/07/2025 20:00	14.156	203.999	40.470	30.138	0.011	7.627	On Peak Load		
02/07/2025 21:00	14.132	216.746	41.170	31.777	0.011	10.619	On Peak Load		
02/07/2025 22:00	14.112	211.541	40.591	28.939	0.011	8.882	On Peak Load		
02/07/2025 23:00	14.114	209.247	40.435	28.118	0.010	10.968	On Peak Load		
03/07/2025 00:00	14.007	172.404	37.003	27.441	0.010	10.935	Off Peak Load		
03/07/2025 01:00	14.025	173.910	36.510	25.757	0.010	12.861	Off Peak Load		
03/07/2025 02:00	14.014	178.649	36.905	22.746	0.010	11.559	Off Peak Load		
03/07/2025 03:00	14.004	175.162	35.651	25.001	0.010	15.330	Off Peak Load		
03/07/2025 04:00	13.991	169.953	36.551	27.099	0.010	14.259	Off Peak Load		
03/07/2025 05:00	14.003	171.506	35.778	26.239	0.010	16.000	Off Peak Load		
03/07/2025 06:00	13.968	158.270	36.649	25.773	0.010	14.455	Off Peak Load		
03/07/2025 07:00	13.966	153.180	36.138	25.393	0.010	10.107	Off Peak Load		
03/07/2025 08:00	13.961	143.324	32.759	22.164	0.010	7.969	Off Peak Load		
03/07/2025 09:00	14.044	137.778	30.114	26.667	0.010	6.694	Off Peak Load		
03/07/2025 10:00	14.043	195.211	38.271	24.768	0.010	6.513	Off Peak Load		
03/07/2025 11:00	14.066	192.393	37.917	25.180	0.010	9.270	On Peak Load		
03/07/2025 12:00	14.061	192.175	39.021	25.950	0.010	5.012	On Peak Load		
03/07/2025 13:00	14.015	116.599	24.485	35.952	0.010	9.514	Off Peak Load		
03/07/2025 14:00	14.045	201.209	38.861	26.186	0.010	6.595	On Peak Load		
03/07/2025 15:00	14.033	192.590	38.146	26.481	0.010	6.566	On Peak Load		
03/07/2025 16:00	14.080	208.922	39.253	27.567	0.009	6.017	On Peak Load		
03/07/2025 17:00	14.137	190.008	38.518	28.179	0.009	14.270	On Peak Load		
03/07/2025 18:00	14.121	185.316	38.761	27.977	0.008	5.629	On Peak Load		
03/07/2025 19:00	14.130	193.288	39.156	26.587	0.008	7.910	On Peak Load		
03/07/2025 20:00	14.085	189.313	38.539	27.138	0.008	11.169	On Peak Load		
03/07/2025 21:00	14.098	193.143	39.010	25.856	0.008	7.733	On Peak Load		
03/07/2025 22:00	14.103	199.783	39.492	28.395	0.008	8.366	On Peak Load		
03/07/2025 23:00	14.095	217.348	40.950	27.795	0.009	8.041	On Peak Load		
04/07/2025 00:00	13.998	170.135	35.783	26.351	0.009	6.719	Off Peak Load		
04/07/2025 01:00	13.976	182.723	36.683	26.197	0.010	6.650	Off Peak Load		
04/07/2025 02:00	14.001	195.857	38.495	24.788	0.010	6.883	Off Peak Load		
04/07/2025 03:00	13.986	171.402	36.152	24.405	0.011	8.786	Off Peak Load		
04/07/2025 04:00	13.978	167.887	35.374	25.999	0.011	9.505	Off Peak Load		
04/07/2025 05:00	13.997	181.979	37.280	25.825	0.010	11.622	Off Peak Load		
04/07/2025 06:00	14.019	182.081	37.266	24.649	0.009	14.570	Off Peak Load		
04/07/2025 07:00	13.994	173.035	36.613	25.153	0.008	9.275	Off Peak Load		
04/07/2025 08:00	13.975	156.555	34.620	23.932	0.008	9.741	Off Peak Load		
04/07/2025 09:00	13.992	157.217	33.207	25.407	0.007	6.580	Off Peak Load		
04/07/2025 10:00	14.074	221.276	39.824	26.017	0.006	8.547	On Peak Load		
04/07/2025 11:00	14.138	198.445	39.412	28.275	0.005	5.975	On Peak Load		
04/07/2025 12:00	14.106	189.979	37.532	28.782	0.004	5.486	On Peak Load		
04/07/2025 13:00	14.131	221.222	35.824	27.780	0.003	6.871	On Peak Load		
04/07/2025 14:00	14.178	211.061	40.906	27.258	0.007	5.617	On Peak Load		
04/07/2025 15:00	14.191	225.888	41.695	28.995	0.008	5.803	On Peak Load		
04/07/2025 16:00	14.156	225.096	41.771	28.398	0.009	5.694	On Peak Load		
04/07/2025 17:00	14.162	226.420	40.828	28.516	0.010	6.215	On Peak Load		
04/07/2025 18:00	14.175	224.500	40.688	29.295	0.012	6.313	On Peak Load		
04/07/2025 19:00	14.145	225.412	40.771	28.134	0.013	7.641	On Peak Load		
04/07/2025 20:00	14.137	200.271	39.551	26.591	0.014	12.568	On Peak Load		

Site Name: GRLL2  
Stack Name: HRSGL2  
Periodically: 11/01/25 00:00 - 31/01/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark	
	Q2	FLOW @1 ATM	GTG11 LOAD	ppm					
				HRSGL1 NOx@7%O2	HRSGL1 SOx@7%O2	HRSGL1 Dust@7%O2	mg/m3		
04/07/2025 21:00	14.130	212.592	40.886	28.257	0.014	11.704	On Peak Load		
04/07/2025 22:00	14.102	213.808	40.889	26.768	0.013	10.918	On Peak Load		
04/07/2025 23:00	14.110	204.678	39.946	27.666	0.013	8.740	On Peak Load		
05/07/2025 00:00	13.957	180.443	36.956	24.280	0.012	11.008	Off Peak Load		
05/07/2025 01:00	14.005	183.006	37.420	26.291	0.012	9.122	Off Peak Load		
05/07/2025 02:00	14.026	192.146	38.035	28.099	0.011	7.904	Off Peak Load		
05/07/2025 03:00	13.978	169.996	35.716	25.847	0.011	13.659	Off Peak Load		
05/07/2025 04:00	13.967	165.529	36.368	24.531	0.011	17.356	Off Peak Load		
05/07/2025 05:00	13.969	174.045	36.688	25.506	0.011	12.482	Off Peak Load		
05/07/2025 06:00	14.001	171.985	35.989	21.995	0.011	10.637	Off Peak Load		
05/07/2025 07:00	13.964	156.098	34.113	24.228	0.011	8.671	Off Peak Load		
05/07/2025 08:00	13.955	140.238	34.566	26.770	0.011	13.655	Off Peak Load		
05/07/2025 09:00	13.916	142.865	34.785	25.309	0.011	5.803	Off Peak Load		
05/07/2025 10:00	14.018	182.282	37.706	26.603	0.011	9.061	Off Peak Load		
05/07/2025 11:00	14.106	219.358	42.586	28.190	0.011	6.855	On Peak Load		
05/07/2025 12:00	14.126	203.509	39.642	28.623	0.011	5.516	On Peak Load		
05/07/2025 13:00	14.315	122.448	24.692	27.996	0.011	5.272	On Peak Load		
05/07/2025 14:00	14.163	205.702	39.362	28.127	0.011	5.077	On Peak Load		
05/07/2025 15:00	14.214	207.550	40.290	29.495	0.011	5.536	On Peak Load		
05/07/2025 16:00	14.155	217.937	41.888	30.135	0.011	5.567	On Peak Load		
05/07/2025 17:00	14.123	219.678	40.151	29.641	0.011	10.824	On Peak Load		
05/07/2025 18:00	14.093	205.610	41.961	27.932	0.011	7.865	On Peak Load		
05/07/2025 19:00	14.142	217.428	42.062	27.959	0.011	9.795	On Peak Load		
05/07/2025 20:00</									

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS012  
TUE025 00:00 - 31JUL25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRS01 NO <sub>x</sub> (%O <sub>2</sub> )	HRS01 SO <sub>x</sub> (%O <sub>2</sub> )	HRS01 DUST (%O <sub>2</sub> )	
				ppm	ppm	mg/m <sup>3</sup>	
08/07/2025 18:00	14.110	213.660	40.605	12.785	0.012	23.646	On Peak Load
08/07/2025 19:00	14.101	217.350	41.464	12.047	0.012	18.488	On Peak Load
08/07/2025 20:00	14.094	219.566	41.966	13.635	0.012	17.801	On Peak Load
08/07/2025 21:00	14.095	227.227	41.899	12.016	0.012	16.910	On Peak Load
08/07/2025 22:00	14.111	223.314	42.006	13.732	0.012	16.643	On Peak Load
08/07/2025 23:00	14.120	223.687	41.747	11.011	0.012	20.473	On Peak Load
09/07/2025 00:00	14.114	243.851	44.200	15.443	0.012	17.380	Off Peak Load GT11 SD Half Block
09/07/2025 01:00	14.119	232.683	43.509	13.808	0.012	20.366	Off Peak Load GT11 SD Half Block
09/07/2025 02:00	14.123	232.174	43.373	13.597	0.011	8.496	Off Peak Load GT11 SD Half Block
09/07/2025 03:00	14.128	234.191	42.991	15.892	0.011	11.097	Off Peak Load GT11 SD Half Block
09/07/2025 04:00	14.132	226.711	43.351	13.588	0.011	12.235	Off Peak Load GT11 SD Half Block
09/07/2025 05:00	14.137	227.534	43.267	14.503	0.011	15.218	Off Peak Load GT11 SD Half Block
09/07/2025 06:00	14.141	222.031	43.380	14.947	0.011	13.892	Off Peak Load GT11 SD Half Block
09/07/2025 07:00	14.146	233.630	43.242	13.533	0.010	11.185	Off Peak Load GT11 SD Half Block
09/07/2025 08:00	14.159	234.627	43.112	14.893	0.010	10.200	Off Peak Load GT11 SD Half Block
09/07/2025 09:00	14.135	230.851	40.615	10.478	0.009	7.980	Off Peak Load
09/07/2025 10:00	14.171	215.370	40.352	13.979	0.009	8.795	On Peak Load
09/07/2025 11:00	14.150	207.235	39.109	12.371	0.008	9.173	On Peak Load
09/07/2025 12:00	14.159	211.742	38.962	10.846	0.007	7.113	On Peak Load
09/07/2025 13:00	14.199	135.464	36.117	10.216	0.007	6.637	On Peak Load
09/07/2025 14:00	14.178	245.020	42.875	7.812	0.006	13.219	On Peak Load
09/07/2025 15:00	14.177	234.676	42.410	13.580	0.006	8.100	On Peak Load
09/07/2025 16:00	14.192	221.826	40.592	14.319	0.006	9.371	On Peak Load
09/07/2025 17:00	14.170	224.423	41.253	11.825	0.006	8.066	On Peak Load
09/07/2025 18:00	14.172	211.552	40.473	12.232	0.006	13.627	On Peak Load
09/07/2025 19:00	14.157	215.232	40.678	14.078	0.006	10.009	On Peak Load
09/07/2025 20:00	14.116	207.428	39.686	13.861	0.006	7.871	On Peak Load
09/07/2025 21:00	14.123	217.614	40.797	12.727	0.006	6.387	On Peak Load
09/07/2025 22:00	14.122	234.106	41.568	14.125	0.006	7.742	On Peak Load
09/07/2025 23:00	14.089	220.322	41.847	10.481	0.006	6.971	On Peak Load
10/07/2025 00:00	13.924	168.813	34.954	10.672	0.007	6.832	Off Peak Load
10/07/2025 01:00	13.975	168.302	34.081	10.701	0.007	8.016	Off Peak Load
10/07/2025 02:00	13.975	169.339	34.597	13.558	0.007	9.130	Off Peak Load
10/07/2025 03:00	13.931	154.732	32.638	7.147	0.008	8.100	Off Peak Load
10/07/2025 04:00	14.003	151.819	31.521	9.217	0.008	17.766	Off Peak Load
10/07/2025 05:00	13.943	163.481	33.642	8.845	0.009	15.918	Off Peak Load
10/07/2025 06:00	13.962	160.325	33.522	7.683	0.009	14.293	Off Peak Load
10/07/2025 07:00	13.979	151.226	31.303	9.519	0.008	14.673	Off Peak Load
10/07/2025 08:00	14.145	146.147	29.667	12.900	0.008	10.413	Off Peak Load
10/07/2025 09:00	14.075	162.338	31.627	11.910	0.007	7.997	Off Peak Load
10/07/2025 10:00	14.049	162.620	31.952	7.042	0.007	7.211	Off Peak Load
10/07/2025 11:00	14.128	151.668	29.001	10.004	0.006	5.671	Off Peak Load
10/07/2025 12:00	14.203	156.288	30.112	13.852	0.006	6.312	Off Peak Load
10/07/2025 13:00	14.184	164.356	30.753	13.837	0.005	6.015	Off Peak Load
10/07/2025 14:00	14.164	156.982	29.918	9.794	0.005	5.907	Off Peak Load
10/07/2025 15:00	14.201	152.397	29.204	10.836	0.006	6.713	Off Peak Load
10/07/2025 16:00	14.172	158.175	30.643	11.213	0.006	6.431	Off Peak Load
10/07/2025 17:00	14.070	159.312	31.680	8.185	0.007	7.007	Off Peak Load
10/07/2025 18:00	14.080	156.655	31.908	9.335	0.008	8.861	Off Peak Load
10/07/2025 19:00	14.160	249.207	44.708	17.678	0.008	16.234	Off Peak Load
10/07/2025 20:00	14.155	250.281	45.102	18.186	0.009	16.990	On Peak Load
10/07/2025 21:00	14.118	249.992	45.109	14.436	0.009	16.169	On Peak Load
10/07/2025 22:00	14.100	250.372	45.221	15.867	0.010	16.156	On Peak Load
10/07/2025 23:00	13.963	155.501	32.396	4.760	0.010	16.449	Off Peak Load
11/07/2025 00:00	14.064	141.491	30.553	10.532	0.010	10.532	Off Peak Load
11/07/2025 01:00	14.021	144.186	31.786	6.310	0.010	15.573	Off Peak Load
11/07/2025 02:00	14.024	150.191	31.913	6.728	0.010	11.794	Off Peak Load
11/07/2025 03:00	14.098	147.137	30.137	8.494	0.010	11.178	Off Peak Load
11/07/2025 04:00	14.097	148.514	30.199	14.522	0.010	8.933	Off Peak Load
11/07/2025 05:00	14.072	153.796	31.440	15.976	0.010	9.237	Off Peak Load
11/07/2025 06:00	13.962	159.904	32.624	7.437	0.010	11.800	Off Peak Load
11/07/2025 07:00	14.045	150.119	31.437	9.433	0.010	10.596	Off Peak Load
11/07/2025 08:00	14.133	145.589	29.863	14.728	0.010	11.205	Off Peak Load
11/07/2025 09:00	14.098	153.828	30.751	11.648	0.010	8.118	Off Peak Load
11/07/2025 10:00	14.132	150.044	30.013	12.731	0.010	8.575	Off Peak Load
11/07/2025 11:00	14.141	149.281	29.470	15.082	0.010	8.721	Off Peak Load
11/07/2025 12:00	14.151	144.431	28.541	13.521	0.011	13.521	Off Peak Load
11/07/2025 13:00	14.296	138.731	27.160	13.596	0.009	6.045	Off Peak Load
11/07/2025 14:00	14.183	146.964	29.219	8.921	0.009	5.193	Off Peak Load
11/07/2025 15:00	14.176	141.449	30.328	11.532	0.009	5.450	Off Peak Load
11/07/2025 16:00	14.151	141.766	31.340	13.894	0.009	5.297	Off Peak Load
11/07/2025 17:00	14.147	140.834	30.085	8.109	0.009	5.745	Off Peak Load
11/07/2025 18:00	14.122	125.392	27.152	5.761	0.010	5.761	Off Peak Load
11/07/2025 19:00	14.160	209.636	40.232	12.899	0.010	6.502	On Peak Load
11/07/2025 20:00	14.158	201.235	40.017	11.685	0.010	6.901	On Peak Load
11/07/2025 21:00	14.175	207.647	40.959	15.048	0.010	8.615	On Peak Load
11/07/2025 22:00	14.153	204.907	40.636	13.298	0.010	10.673	On Peak Load
11/07/2025 23:00	14.194	231.083	42.498	17.333	0.010	9.105	Off Peak Load GT11 SD Half Block
12/07/2025 00:00	14.174	234.178	43.689	13.770	0.010	9.496	Off Peak Load GT11 SD Half Block
12/07/2025 01:00	14.155	218.090	43.131	13.031	0.010	12.031	Off Peak Load GT11 SD Half Block
12/07/2025 02:00	14.145	240.916	43.266	14.055	0.009	12.137	Off Peak Load GT11 SD Half Block
12/07/2025 03:00	14.144	239.709	43.077	14.709	0.009	10.535	Off Peak Load GT11 SD Half Block
12/07/2025 04:00	14.149	239.545	43.195	13.847	0.009	11.705	Off Peak Load GT11 SD Half Block
12/07/2025 05:00	14.153	237.518	43.185	15.821	0.009	12.496	Off Peak Load GT11 SD Half Block
12/07/2025 06:00	14.158	241.768	42.962	14.296	0.009	13.908	Off Peak Load GT11 SD Half Block
12/07/2025 07:00	14.162	238.790	43.315	11.698	0.010	11.698	Off Peak Load GT11 SD Half Block
12/07/2025 08:00	14.167	237.401	43.026	14.091	0.010	11.053	Off Peak Load GT11 SD Half Block
12/07/2025 09:00	14.152	227.474	40.725	7.922	0.010	7.922	Off Peak Load
12/07/2025 10:00	14.101	212.102	37.991	10.021	0.011	7.568	On Peak Load
12/07/2025 11:00	14.138	208.447	37.154	10.640	0.011	6.440	On Peak Load
12/07/2025 12:00	14.176	191.505	36.293	13.853	0.011	5.701	On Peak Load
12/07/2025 13:00	14.567	121.551	22.494	11.809	0.012	5.868	On Peak Load
12/07/2025 14:00	14.154	189.187	36.601	11.818	0.012	5.460	On Peak Load

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS012  
TUE025 00:00 - 31JUL25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRS01 NO <sub>x</sub> (%O <sub>2</sub> )	HRS01 SO <sub>x</sub> (%O <sub>2</sub> )	HRS01 DUST (%O <sub>2</sub> )	
				ppm	ppm	mg/m <sup>3</sup>	
12/07/2025 15:00	14.161	194.688	37.058	11.851	0.012	6.508	On Peak Load
12/07/2025 16:00	14.164	220.066	39.181	11.764	0.012	6.553	On Peak Load
12/07/2025 17:00	14.173	208.215	38.074	11.434	0.012	6.801	On Peak Load
12/07/2025 18:00	14.122	213.424	39.779	9.567	0.012	9.629	On Peak Load
12/07/2025 19:00	14.095	207.359	39.908	10.180	0.012	10.918	On Peak Load
12/07/2025 20:00	14.110	197.285	38.606	9.864	0.012	16.374	On Peak Load
12/07/2025 21:00	14.118	199.681	38.727	12.770	0.012	10.437	On Peak Load
12/07/2025 22:00	14.113	196.368	39.296	9.999	0.013	8.653	On Peak Load
12/07/2025 23:00	14.107	181.066	38.707	12.249	0.013	9.695	On Peak Load
13/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
13/07/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off

GNLL2  
HRSG12  
1/Jul/25 00:00 - 31/Jul/25 23:59

Date & Time	Actual Operation Condition				Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW m <sup>3</sup> /hr	ATM	GTG1 LOAD MW	HRSG1	NOx	SO <sub>2</sub>	
					ppm	%	ppm	
	%				HRSG1	NOx	SO <sub>2</sub>	
					ppm	%	ppm	
							mg/m <sup>3</sup>	
							(% SO <sub>2</sub> )	
16/07/2025 12:00	14.099	209.502	39.967	9.482	0.011		11.236	On Peak Load
16/07/2025 13:00	14.217	131.815	26.808	11.695	0.011		8.055	Off Peak Load
16/07/2025 14:00	14.152	230.148	40.915	11.675	0.011		7.491	On Peak Load
16/07/2025 15:00	14.142	238.641	42.289	11.122	0.010		8.651	On Peak Load
16/07/2025 16:00	14.036	127.113	25.519	11.341	0.010		8.468	On Peak Load
16/07/2025 17:00	14.156	205.642	39.991	12.120	0.009		10.139	On Peak Load
16/07/2025 18:00	14.117	198.730	39.717	13.074	0.009		12.185	On Peak Load
16/07/2025 19:00	14.094	199.118	40.474	11.274	0.009		13.266	On Peak Load
16/07/2025 20:00	14.103	191.856	39.156	12.188	0.009		13.937	On Peak Load
16/07/2025 21:00	14.109	200.554	40.443	10.260	0.009		13.956	On Peak Load
16/07/2025 22:00	14.094	202.381	40.708	12.302	0.009		16.053	On Peak Load
16/07/2025 23:00	14.111	202.645	40.856	12.789	0.009		17.091	On Peak Load
17/07/2025 00:00	13.977	168.111	35.763	10.970	0.009		16.121	Off Peak Load
17/07/2025 01:00	13.997	176.310	37.834	10.877	0.009		7.624	Off Peak Load
17/07/2025 02:00	13.997	188.665	37.268	9.344	0.009		17.095	Off Peak Load
17/07/2025 03:00	14.029	185.725	37.690	11.173	0.009		9.779	Off Peak Load
17/07/2025 04:00	13.972	178.139	37.066	11.559	0.010		18.382	Off Peak Load
17/07/2025 05:00	13.993	175.119	35.522	10.480	0.010		20.371	Off Peak Load
17/07/2025 06:00	13.990	165.467	37.371	10.460	0.010		10.777	Off Peak Load
17/07/2025 07:00	13.974	156.263	36.110	9.722	0.011		9.138	Off Peak Load
17/07/2025 08:00	13.945	152.222	34.032	10.604	0.011		7.509	Off Peak Load
17/07/2025 09:00	14.003	195.542	38.091	10.361	0.012		7.062	Off Peak Load
17/07/2025 10:00	14.126	238.967	42.128	12.253	0.012		8.634	On Peak Load
17/07/2025 11:00	14.140	212.473	40.178	13.331	0.013		9.372	On Peak Load
17/07/2025 12:00	14.131	209.859	39.224	12.174	0.012		9.500	On Peak Load
17/07/2025 13:00	14.156	148.029	29.576	12.390	0.012		7.950	Off Peak Load
17/07/2025 14:00	14.220	251.348	43.310	14.193	0.012		8.108	On Peak Load
17/07/2025 15:00	14.230	239.555	40.098	13.526	0.012		7.488	On Peak Load
17/07/2025 16:00	14.198	240.967	41.844	14.778	0.011		7.845	On Peak Load
17/07/2025 17:00	14.157	224.415	40.284	12.976	0.012		7.529	On Peak Load
17/07/2025 18:00	14.170	211.063	40.561	11.813	0.011		10.420	On Peak Load
17/07/2025 19:00	14.185	214.972	41.468	12.873	0.010		14.102	On Peak Load
17/07/2025 20:00	14.116	202.128	40.341	11.702	0.010		8.371	On Peak Load
17/07/2025 21:00	14.091	190.438	41.507	12.922	0.010		7.950	On Peak Load
17/07/2025 22:00	14.099	190.452	40.532	12.849	0.010		15.162	On Peak Load
17/07/2025 23:00	14.065	210.828	41.026	14.433	0.010		16.528	On Peak Load
18/07/2025 00:00	13.922	169.152	36.299	1				

GNLL2  
HRSG12  
1/Jul/25 00:00 - 31/Jul/25 23:59

Date & Time	Actual Operation Condition				Emission Concentration for Standardization Comparison			Remark
	G2 %	FLOW ft <sup>3</sup> /ATM	GTG1 LOAD MW		HRSG1 NOx(ppm)7%O2	HRSG1 SO2(ppm)7%O2	HRSG1 DMS(ppm)7%O2	
20/07/2025 09:00	14.055	143.487	32.373		9.959	0.011	11.637	Off Peak Load
20/07/2025 10:00	14.023	144.972	32.304		11.170	0.012	8.135	Off Peak Load
20/07/2025 11:00	14.036	139.777	31.991		9.539	0.012	8.313	Off Peak Load
20/07/2025 12:00	14.107	148.848	30.515		10.466	0.012	8.182	On Peak Load
20/07/2025 13:00	14.018	153.013	31.997		8.207	0.013	8.010	On Peak Load
20/07/2025 14:00	14.030	157.521	31.860		9.443	0.013	9.431	Off Peak Load
20/07/2025 15:00	14.065	157.719	31.121		5.792	0.013	8.574	Off Peak Load
20/07/2025 16:00	13.988	161.606	33.950		10.134	0.013	8.567	Off Peak Load
20/07/2025 17:00	13.997	155.223	32.955		9.024	0.013	10.734	Off Peak Load
20/07/2025 18:00	14.029	139.898	33.604		8.552	0.013	12.751	Off Peak Load
20/07/2025 19:00	14.119	213.641	41.645		13.771	0.014	14.618	On Peak Load
20/07/2025 00:00	14.063	198.287	39.714		11.422	0.013	13.466	On Peak Load
20/07/2025 01:00	14.078	202.694	39.447		12.131	0.015	16.243	On Peak Load
20/07/2025 02:00	14.080	216.871	40.852		12.149	0.016	18.806	On Peak Load
20/07/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
21/07/2025 06:00	14.152	127.324	27.566		13.423	0.019	13.680	Off Peak Load
21/07/2025 07:00	14.222	126.389	27.246		14.605	0.019	14.995	Off Peak Load
21/07/2025 08:00	14.196	129.612	27.038		12.293	0.009	14.471	Off Peak Load
21/07/2025 09:00	14.185	131.296	27.832		10.959	0.011	13.059	On Peak Load
21/07/2025 10:00	14.162	122.629	41.237		12.771	0.010	10.389	On Peak Load
21/07/2025 11:00	14.196	224.568	42.035		16.884	0.010	11.144	On Peak Load
21/07/2025 12:00	14.091	201.466	39.658		12.862	0.011	17.002	On Peak Load
21/07/2025 13:00	14.209	129.575	27.236		12.693	0.011	10.145	Off Peak Load
21/07/2025 14:00	14.157	227.180	41.909		13.096	0.012	8.722	On Peak Load
21/07/2025 15:00	14.184	217.194	40.996		13.410	0.012	9.978	On Peak Load
21/07/2025 16:00	14.214	226.193	42.036		12.855	0.011	9.764	On Peak Load
21/07/2025 17:00	14.211	220.255	41.523		14.071	0.010	8.281	On Peak Load
21/07/2025 18:00	14.143	217.277	40.925		11.777	0.009	11.616	On Peak Load
21/07/2025 19:00	14.157	221.241	41.505		12.816	0.008	14.119	On Peak Load
21/07/2025 20:00	14.173	216.988	40.780		12.328	0.007	13.920	On Peak Load
21/07/2025 21:00	14.148	222.908	41.673		12.923	0.006	17.003	On Peak Load
21/07/2025 22:00	14.122	213.898	41.522		13.954	0.008	11.523	On Peak Load
21/07/2025 23:00	14.106	208.913	40.850		11.199	0.007	16.804	On Peak Load
22/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
22/07/2025 11:00	14.081	195.002	39.633		11.329	0.020	15.963	On Peak Load
22/07/2025 12:00	14.090	202.319	38.417		11.769	0.018	14.164	On Peak Load
22/07/2025 13:00	14.322	127.030	24.404		16.910	0.010	9.934	Off Peak Load
22/07/2025 14:00	14.070	198.919	37.788		10.257	0.015	9.208	On Peak Load
22/07/2025 15:00	14.057	198.513	37.520		10.494	0.014	11.197	On Peak Load
22/07/2025 16:00	14.088	185.047	37.420		11.399	0.012	9.752	On Peak Load
22/07/2025 17:00	14.055	179.904	36.694		11.155	0.012	14.507	On Peak Load
22/07/2025 18:00	14.046	177.375	36.887		10.897	0.012	16.998	On Peak Load
22/07/2025 19:00	14.061	186.780	37.042		9.881	0.011	16.017	On Peak Load
22/07/2025 20:00	14.059	173.829	37.130		10.546	0.011	16.439	On Peak Load
22/07/2025 21:00	14.026	172.080	36.616		10.954	0.011	15.121	On Peak Load
22/07/2025 22:00	14.021	169.426	36.355		9.868	0.010	16.910	On Peak Load
22/07/2025 23:00	14.061	167.625	36.608		11.122	0.010	13.176	On Peak Load
23/07/2025 00:00	14.168	226.697	43.558		14.431	0.010	15.505	Off Peak Load GT12 SD Half Block
23/07/2025 01:00	14.171	234.360	43.325		13.621	0.010	15.173	Off Peak Load GT12 SD Half Block
23/07/2025 02:00	14.172	231.185	43.323		13.916	0.010	13.336	Off Peak Load GT11 SD Half Block
23/07/2025 03:00	14.174	234.233	43.347		14.827	0.010	15.191	Off Peak Load GT11 SD Half Block
23/07/2025 04:00	14.176	229.605	43.290		13.667	0.010	11.643	Off Peak Load GT11 SD Half Block
23/07/2025 05:00	14.177	231.654	43.408		12.667	0.011	16.018	Off Peak Load GT11 SD Half Block
23/07/2025 06:00	14.179	232.153	43.211		11.677	0.011	15.254	Off Peak Load GT11 SD Half Block
23/07/2025 07:00	14.181	233.632	43.133		14.353	0.011	13.300	Off Peak Load GT11 SD Half Block
23/07/2025 08:00	14.172	135.196	43.193		13.897	0.011	15.046	Off Peak Load GT11 SD Half Block
23/07/2025 09:00	14.143	218.159	41.018		13.062	0.011	12.014	Off Peak Load
23/07/2025 10:00	14.021	176.805	35.265		7.714	0.011	9.397	On Peak Load
23/07/2025 11:00	14.008	175.233	34.164		9.266	0.010	9.788	On Peak Load
23/07/2025 12:00	14.027	177.668	34.985		9.897	0.010	8.695	On Peak Load
23/07/2025 13:00	14.603	112.959	20.412		29.531	0.010	9.174	Off Peak Load
23/07/2025 14:00	13.984	186.344	36.894		9.894	0.009	10.111	On Peak Load
23/07/2025 15:00	13.978	172.991	36.778		9.235	0.009	8.938	On Peak Load
23/07/2025 16:00	14.029	191.156	36.843		9.256	0.009	10.874	On Peak Load
23/07/2025 17:00	14.028	175.076	35.774		7.766	0.010	12.990	On Peak Load
23/07/2025 18:00	14.049	181.458	36.498		6.672	0.011	13.893	On Peak Load
23/07/2025 19:00	14.055	182.725	36.626		11.023	0.012	13.470	On Peak Load
23/07/2025 20:00	14.035	183.934	36.256		11.408	0.013	13.779	On Peak Load
23/07/2025 21:00	14.021	177.288	36.222		9.087	0.013	14.963	On Peak Load
23/07/2025 22:00	14.028	184.583	36.046		9.357	0.014	13.456	On Peak Load
23/07/2025 23:00	14.048	184.264	36.422		9.340	0.015	15.390	On Peak Load
24/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
24/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
24/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
24/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
24/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
24/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS012  
TUE025 00:00 - 31JUL25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11_LOAD	HRS01 NOx@7%O2	HRS01 SOx@7%O2	HRS01 Dust @7%O2	mg/m3	
24/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	On Peak Load GT12 SD Half Block	
24/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/07/2025 10:00	14.064	211.435	37.533	10.904	0.017	10.144	On Peak Load	
24/07/2025 11:00	14.118	200.286	36.046	12.796	0.017	9.498	On Peak Load	
24/07/2025 12:00	14.064	186.896	33.849	11.757	0.016	8.197	On Peak Load	
24/07/2025 13:00	14.489	134.443	22.499	28.522	0.015	8.101	Off Peak Load	
24/07/2025 14:00	14.045	203.122	35.705	9.880	0.014	7.549	On Peak Load	
24/07/2025 15:00	14.125	211.084	36.501	11.352	0.013	7.764	On Peak Load	
24/07/2025 16:00	14.161	225.568	39.269	12.166	0.012	6.116	On Peak Load	
24/07/2025 17:00	14.104	214.508	38.831	11.561	0.011	9.749	On Peak Load	
24/07/2025 18:00	14.099	186.363	36.928	11.089	0.012	11.090	On Peak Load	
24/07/2025 19:00	14.079	188.722	37.442	12.292	0.014	14.145	On Peak Load	
24/07/2025 20:00	14.071	180.400	37.165	9.403	0.016	16.765	On Peak Load	
24/07/2025 21:00	14.044	186.700	37.938	10.616	0.017	18.273	On Peak Load	
24/07/2025 22:00	14.031	186.392	37.374	9.472	0.019	17.642	On Peak Load	
24/07/2025 23:00	14.061	194.911	37.500	11.804	0.021	14.362	On Peak Load	
25/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
25/07/2025 10:00	14.049	206.076	36.237	11.288	0.016	8.450	On Peak Load	
25/07/2025 11:00	14.095	197.158	35.477	13.055	0.015	8.892	On Peak Load	
25/07/2025 12:00	14.161	203.152	35.254	31.669	0.021	7.585	On Peak Load	
25/07/2025 13:00	14.556	145.026	22.809	33.692	0.014	7.779	Off Peak Load	
25/07/2025 14:00	14.109	216.333	37.650	16.685	0.011	9.685	On Peak Load	
25/07/2025 15:00	14.090	197.737	36.959	15.942	0.012	8.909	On Peak Load	
25/07/2025 16:00	14.111	205.729	37.922	14.607	0.012	9.327	On Peak Load	
25/07/2025 17:00	14.086	187.912	36.741	13.342	0.011	10.712	On Peak Load	
25/07/2025 18:00	14.075	181.126	36.692	13.420	0.010	12.072	On Peak Load	
25/07/2025 19:00	14.078	192.259	38.885	13.586	0.010	15.648	On Peak Load	
25/07/2025 20:00	14.045	181.076	37.004	11.349	0.009	17.125	On Peak Load	
25/07/2025 21:00	14.033	189.378	37.435	11.127	0.010	16.417	On Peak Load	
25/07/2025 22:00	14.065	189.511	37.604	12.106	0.010	20.363	On Peak Load	
25/07/2025 23:00	14.063	204.429	38.526	10.611	0.011	12.481	On Peak Load	
26/07/2025 00:00	14.199	249.367	44.938	19.361	0.011	9.964	Off Peak Load GT11 SD Half Block	
26/07/2025 01:00	14.218	239.060	43.194	17.600	0.012	9.708	Off Peak Load GT11 SD Half Block	
26/07/2025 02:00	14.212	235.290	43.105	18.009	0.012	10.456	Off Peak Load GT11 SD Half Block	
26/07/2025 03:00	14.207	234.596	43.314	16.804	0.013	10.832	Off Peak Load GT11 SD Half Block	
26/07/2025 04:00	14.201	235.506	43.137	15.740	0.013	12.297	Off Peak Load GT11 SD Half Block	
26/07/2025 05:00	14.195	247.144	43.185	15.743	0.013	17.541	Off Peak Load GT11 SD Half Block	
26/07/2025 06:00	14.189	242.158	43.291	16.714	0.013	14.243	Off Peak Load GT11 SD Half Block	
26/07/2025 07:00	14.183	251.627	43.039	13.796	0.013	13.723	Off Peak Load GT11 SD Half Block	
26/07/2025 08:00	14.196	259.743	43.144	16.601	0.013	11.208	Off Peak Load GT11 SD Half Block	
26/07/2025 09:00	14.153	227.608	40.451	13.857	0.013	10.465	Off Peak Load	
26/07/2025 10:00	14.095	218.410	38.568	11.943	0.013	11.235	On Peak Load	
26/07/2025 11:00	14.108	204.301	36.875	11.608	0.013	8.735	On Peak Load	
26/07/2025 12:00	14.083	209.584	36.773	9.891	0.013	8.856	On Peak Load	
26/07/2025 13:00	14.467	137.760	22.178	19.934	0.013	7.660	Off Peak Load	
26/07/2025 14:00	14.068	219.208	38.846	11.251	0.012	9.241	On Peak Load	
26/07/2025 15:00	14.104	219.461	39.614	11.597	0.012	9.220	On Peak Load	
26/07/2025 16:00	14.085	203.571	38.478	11.984	0.011	10.083	On Peak Load	
26/07/2025 17:00	14.081	199.274	37.577	12.140	0.011	9.439	On Peak Load	
26/07/2025 18:00	14.075	193.245	38.227	12.580	0.010	11.737	On Peak Load	
26/07/2025 19:00	14.068	194.997	39.398	13.350	0.010	16.376	On Peak Load	
26/07/2025 20:00	14.013	182.076	37.115	10.101	0.010	18.148	On Peak Load	
26/07/2025 21:00	14.077	196.371	39.629	11.484	0.012	19.211	On Peak Load	
26/07/2025 22:00	14.060	207.946	39.896	10.691	0.014	20.702	On Peak Load	
26/07/2025 23:00	14.076	208.676	39.778	10.602	0.012	12.765	On Peak Load	
27/07/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
27/07/2025 19:00	14.081	186.664	37.597	12.440	0.011	16.804	On Peak Load	
27/07/2025 20:00	14.120	190.509	37.185	22.932	0.011	18.438	On Peak Load	
27/07/2025 21:00	14.133	205.699	38.863	21.866	0.011	21.254	On Peak Load	
27/07/2025 22:00	14.077	199.309	37.551	19.671	0.011	21.203	On Peak Load	
27/07/2025 23:00	14.162	241.186	44.880	24.818	0.011	15.608	Off Peak Load GT11 SD Half Block	
28/07/2025 00:00	14.132	269.773	45.302	20.981	0.011	18.004	Off Peak Load GT11 SD Half Block	
28/07/2025 01:00	14.113	259.999	45.114	20.822	0.011	19.454	Off Peak Load GT11 SD Half Block	
28/07/2025 02:00	14.101	263.073	44.854	18.803	0.012	16.702	Off Peak Load GT11 SD Half Block	

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS012  
TUE025 00:00 - 31JUL25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11_LOAD	HRS01 NOx@7%O2	HRS01 SOx@7%O2	HRS01 Dust @7%O2	mg/m3	
28/07/2025 03:00	14.099	259.324	45.415	20.755	0.012	15.605	Off Peak Load GT11 SD Half Block	
28/07/2025 04:00	14.097	252.245	45.127	19.185	0.012	19.748	Off Peak Load GT11 SD Half Block	
28/07/2025 05:00	14.095	257.985	45.055	19.971	0.011	16.326	Off Peak Load GT11 SD Half Block	
28/07/2025 06:00	14.094	257.661	45.127	18.990	0.011	17.574	Off Peak Load GT11 SD Half Block	
28/07/2025 07:00	14.092	255.620	45.119	19.845	0.011	19.183	Off Peak Load GT11 SD Half Block	
28/07/2025 08:00	14.090	253.633	45.211	18.681	0.011	14.988	Off Peak Load GT11 SD Half Block	
28/07/2025 09:00	14.088	241.172	45.856	18.606	0.011	16.804	Off Peak Load GT11 SD Half Block	
28/07/2025 10:00	14.097	248.544	45.717	18.913	0.010	12.799	Off Peak Load GT11 SD Half Block	
28/07/2025 11:00	14.115	255.873	44.820	17.114	0.010	12.549	Off Peak Load GT11 SD Half Block	
28/07/2025 12:00	14.133	255.885	44.624	17.397	0.010	14.441	Off Peak Load GT11 SD Half Block	
28/07/2025 13:00	14.142	253.005	44.524	18.138	0.011	12.646	Off Peak Load GT11 SD Half Block	
28/07/2025 14:00	14.143	246.199	44.580	15.993	0.012	14.633	Off Peak Load GT11 SD Half Block	
28/07/2025 15:00	14.143	241.824	44.475	17.427	0.012	16.120	Off Peak Load GT11 SD Half Block	
28/07/2025 16:00	14.144	245.065	44.696	17.373	0.013	16.415	Off Peak Load GT11 SD Half Block	
28/07/2025 17:00	14.145	238.569	45.009	17.652	0.014	18.007	Off Peak Load GT11 SD Half Block	
28/07/2025 18:00	14.124	241.112	45.086	19.611	0.014	18.722	Off Peak Load	
28/07/2025 19:00	14.016	184.561	37.247	10.959	0.015	19.216	On Peak Load	
28/07/2025 20:00	14.025	182.333	37.464	11.681	0.015	18.108	On Peak Load	
28/07/2025 21:00	14.042	188.290	37.433	11.022	0.014	18.936	On Peak Load	
28/07/2025 22:00	14.026	183.801	37.408	10.461	0.014	22.154	On Peak Load	
28/07/2025 23:00	14.164	133.114	27.963	12.483	0.013	18.024	Off Peak Load	
29/07/2025 00:00	14.216	125.588	27.969	14.908	0.013	13.097	Off Peak Load	
29/07/2025 01:00	14.216	128.565	28.469	16.116	0.013	13.896	Off Peak Load	
29/07/2025 02:00	14.215	134.714	28.512	11.813	0.012	15.807	Off Peak Load	
29/07/2025 03:00	14.218	129.089	27.421	14.142	0.012	17.572	Off Peak Load	
29/07/2025 04:00	14.184	131.007	28.425	11.821	0.011	16.786	Off Peak Load	
29/07/2025 05:00	14.202	127.403	27.618</					

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS012  
11Aug25 00:00 - 31Aug25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRS01 NO <sub>x</sub> @7%O <sub>2</sub>	HRS01 SO <sub>x</sub> @7%O <sub>2</sub>	HRS01 Dust (7%O <sub>2</sub> )	
	%	m3PH	MW	ppm	ppm	mg/m3	
Minimum	13.90	112.959	29.41	4.78	0.00	3.24	
Maximum	14.60	269.773	45.66	49.17	2.21	25.62	
Avg	14.10	192.909	37.67	16.49	0.02	11.66	
SUM							
CU				NO	0	26	

Site Name:  
Stack Name:  
Periodically:

GRLL2  
HRS011  
11Aug25 00:00 - 31Aug25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRS01 NO <sub>x</sub> @7%O <sub>2</sub>	HRS01 SO <sub>x</sub> @7%O <sub>2</sub>	HRS01 Dust (7%O <sub>2</sub> )	
	%	m3PH	MW	ppm	ppm	mg/m3	
01/08/2025 00:00	14.735	282.606	33.246	16.094	0.002	17.216	Off Peak Load
01/08/2025 01:00	14.886	300.548	35.871	15.283	0.002	15.685	Off Peak Load
01/08/2025 02:00	14.907	307.049	36.676	15.057	0.002	11.805	Off Peak Load
01/08/2025 03:00	14.922	301.313	35.741	14.336	0.002	15.305	Off Peak Load
01/08/2025 04:00	14.899	300.974	35.880	15.039	0.002	16.069	Off Peak Load
01/08/2025 05:00	14.857	288.775	34.767	14.707	0.002	15.379	Off Peak Load
01/08/2025 06:00	14.818	278.499	33.345	14.145	0.002	15.864	Off Peak Load
01/08/2025 07:00	14.843	286.222	33.615	13.339	0.002	13.739	Off Peak Load
01/08/2025 08:00	14.900	270.350	31.497	13.398	0.002	13.599	Off Peak Load
01/08/2025 09:00	15.230	243.334	25.329	41.671	0.002	10.375	Off Peak Load
01/08/2025 10:00	15.007	319.673	37.800	15.834	0.002	6.793	On Peak Load
01/08/2025 11:00	15.003	321.436	38.273	23.062	0.002	6.030	On Peak Load
01/08/2025 12:00	15.025	319.327	37.779	23.540	0.001	5.891	On Peak Load
01/08/2025 13:00	15.293	241.891	24.245	51.624	0.001	5.198	Off Peak Load
01/08/2025 14:00	15.054	323.697	38.444	12.481	0.001	4.370	On Peak Load
01/08/2025 15:00	15.061	324.969	38.626	8.530	0.000	4.659	On Peak Load
01/08/2025 16:00	15.062	326.025	38.929	22.844	0.000	5.532	On Peak Load
01/08/2025 17:00	14.982	320.672	37.830	10.950	0.000	6.758	On Peak Load
01/08/2025 18:00	14.945	325.435	39.039	17.206	0.000	9.199	On Peak Load
01/08/2025 19:00	14.935	327.486	39.039	17.545	0.000	11.834	On Peak Load
01/08/2025 20:00	14.939	327.279	38.876	14.207	0.000	15.223	On Peak Load
01/08/2025 21:00	14.932	328.392	39.829	10.554	0.000	17.396	On Peak Load
01/08/2025 22:00	14.923	327.589	39.432	22.946	0.000	17.159	On Peak Load
01/08/2025 23:00	14.916	320.423	38.757	27.856	0.001	18.185	On Peak Load
02/08/2025 00:00	14.990	258810.000	28.693	36.979	0.001	23.142	Off Peak Load
02/08/2025 01:00	14.888	306017.844	36.988	12.197	0.001	17.953	Off Peak Load
02/08/2025 02:00	14.879	303685.688	36.699	18.394	0.001	14.441	Off Peak Load
02/08/2025 03:00	14.911	318290.000	37.753	13.210	0.000	14.695	Off Peak Load
02/08/2025 04:00	14.877	302797.844	36.108	26.324	0.003	13.774	Off Peak Load
02/08/2025 05:00	14.887	303004.438	35.772	11.216	0.002	13.328	Off Peak Load
02/08/2025 06:00	14.889	308130.125	36.878	12.105	0.002	15.736	Off Peak Load
02/08/2025 07:00	14.879	300446.656	36.039	21.568	0.001	21.798	Off Peak Load
02/08/2025 08:00	14.883	276344.906	32.024	18.038	0.001	12.705	Off Peak Load
02/08/2025 09:00	15.179	249414.031	25.840	44.927	0.001	11.993	Off Peak Load
02/08/2025 10:00	14.986	315.318	37.588	22.494	0.001	9.194	On Peak Load
02/08/2025 11:00	15.050	332.077	38.452	20.877	0.001	8.095	On Peak Load
02/08/2025 12:00	14.962	311.096	36.459	21.011	0.000	6.544	On Peak Load
02/08/2025 13:00	15.236	247.488	25.430	43.047	0.000	6.797	Off Peak Load
02/08/2025 14:00	15.017	315.372	37.609	19.604	0.000	6.395	On Peak Load
02/08/2025 15:00	15.042	323.504	38.355	14.151	0.000	6.825	On Peak Load
02/08/2025 16:00	15.092	343.897	40.476	28.283	0.000	7.248	On Peak Load
02/08/2025 17:00	14.999	323.466	37.946	26.972	0.001	7.174	On Peak Load
02/08/2025 18:00	15.001	333.079	39.577	23.761	0.001	9.231	On Peak Load
02/08/2025 19:00	14.971	336.151	40.497	28.247	0.001	11.978	On Peak Load
02/08/2025 20:00	14.989	337.357	40.502	21.775	0.001	14.103	On Peak Load
02/08/2025 21:00	14.951	335.211	40.056	18.875	0.001	13.533	On Peak Load
02/08/2025 22:00	14.950	337.784	40.534	16.260	0.000	16.222	On Peak Load
02/08/2025 23:00	14.942	329524.625	39.715	14.354	0.000	16.681	On Peak Load
03/08/2025 00:00	14.994	261007.234	28.377	50.127	0.001	16.583	Off Peak Load
03/08/2025 01:00	14.879	294916.875	35.339	9.051	0.001	17.383	Off Peak Load
03/08/2025 02:00	14.843	307179.063	36.893	19.516	0.002	20.268	Off Peak Load
03/08/2025 03:00	14.878	313669.500	37.432	21.904	0.002	17.675	Off Peak Load
03/08/2025 04:00	14.848	299358.906	34.887	11.789	0.003	16.710	Off Peak Load
03/08/2025 05:00	14.878	296798.750	35.601	14.659	0.003	22.781	Off Peak Load
03/08/2025 06:00	14.811	288617.063	34.332	24.860	0.003	21.185	Off Peak Load
03/08/2025 07:00	14.816	289371.250	34.270	6.185	0.002	24.062	Off Peak Load
03/08/2025 08:00	14.873	272455.531	31.352	3.313	0.002	15.640	Off Peak Load
03/08/2025 09:00	14.832	282307.563	33.204	17.765	0.002	16.849	Off Peak Load
03/08/2025 10:00	14.984	270280.094	30.315	28.354	0.002	12.818	Off Peak Load
03/08/2025 11:00	14.971	267.701	30.321	13.330	0.001	9.840	Off Peak Load
03/08/2025 12:00	14.993	268.279	29.545	16.015	0.001	8.248	Off Peak Load
03/08/2025 13:00	14.961	272.382	31.203	17.585	0.001	7.772	Off Peak Load
03/08/2025 14:00	14.936	281.938	33.531	14.585	0.001	7.515	Off Peak Load
03/08/2025 15:00	14.939	286.055	33.763	12.916	0.000	6.868	Off Peak Load
03/08/2025 16:00	14.921	270.603	30.757	24.741	0.001	6.954	Off Peak Load
03/08/2025 17:00	14.944	278.535	32.423	24.792	0.003	7.165	Off Peak Load
03/08/2025 18:00	14.972	270.281	30.797	23.088	0.004	9.701	Off Peak Load
03/08/2025 19:00	14.956	333.892	40.652	24.383	0.005	11.488	On Peak Load
03/08/2025 20:00	14.947	331.574	40.038	10.514	0.000	11.826	On Peak Load
03/08/2025 21:00	14.930	327.140	39.492	24.167	0.015	13.050	On Peak Load
03/08/2025 22:00	14.929	326.788	39.224	10.253	0.001	14.035	On Peak Load
03/08/2025 23:00	14.978	368.852	45.272	25.695	0.001	14.897	Off Peak Load
04/08/2025 00:00	15.026	354.377	43.577	19.387	0.008	16.302	Off Peak Load GT12 SD Half Block
04/08/2025 01:00	15.002	354189.188	43.477	10.341	0.003	18.059	Off Peak Load GT12 SD Half Block
04/08/2025 02:00	14.990	355537.656	43.549	19.727	0.001	16.825	Off Peak Load GT12 SD Half Block
04/08/2025 03:00	14.988	355552.000	43.353	29.746	0.377	15.155	Off Peak Load GT12 SD Half Block
04/08/2025 04:00	15.000	350190.969	43.467	24.899	0.002	14.238	Off Peak Load GT12 SD Half Block
04/08/2025 05:00	15.016	353063.563	43.595	24.971	0.007	10.744	Off Peak Load GT12 SD Half Block
04/08/2025 06:00	15.018	354119.844	43.357	26.077	0.005	10.589	Off Peak Load GT12 SD Half Block
04/08/2025 07:00	15.009	353830.906	43.517	13.636	0.001	11.859	Off Peak Load GT12 SD Half Block
04/08/2025 08:00	15.060	358206.063	43.342	20.961	0.001	10.400	Off Peak Load GT12 SD Half Block
04/08/2025 09:00	15.279	230169.797	21.634	45.551	0.001	10.543	Off Peak Load
04/08/2025 10:00	15.007	317757.344	38.032	18.509	0.001	9.041	On Peak Load
04/08/2025 11:00	15.024	319249.875	38.232	21.084	0.001	8.782	On Peak Load
04/08/2025 12:00	14.972	315281.094	37.258	21.568	0.001	7.742	On Peak Load
04/08/2025 13:00	15.189	243834.875	24.911	21.001	0.001	7.524	Off Peak Load
04/08/2025 14:00	15.010	327573.719	39.005	25.242	0.000	8.110	On Peak Load
04/08/2025 15:00	15.012	318725.250	37.727	17.756	0.000	9.418	On Peak Load
04/08/2025 16:00	15.032	331636.406	39.476	20.729	0.000	7.558	On Peak Load
04/08/2025 17:00	15.004	329738.714	39.312	14.034	0.001	9.061	On Peak Load
04/08/2025 18:00	14.970	333777.813	40.267	28.628	0.001	10.845	On Peak Load
04/08/2025 19:00	15.000	338.618	40.779	29.115	0.001	13.546	On Peak Load
04/08/2025 20:00	14.944	325.440	39.040	8.631	0.001	14.365	On Peak Load

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG11  
11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT11/L LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	
				ppm	mg/m3	mg/m3	
04/08/2025 21:00	14.974	335.740	40.409	26.628	0.009	13.933	On Peak Load
04/08/2025 22:00	14.963	333.529	40.599	17.875	0.004	12.938	On Peak Load
04/08/2025 23:00	14.946	338956.563	41.007	9.891	0.002	15.700	On Peak Load
05/08/2025 00:00	14.988	370473.875	45.393	11.662	0.006	18.949	Off Peak Load GT12 SD Half Block
05/08/2025 01:00	14.990	356169.375	43.444	18.681	0.002	19.062	On Peak Load GT12 SD Half Block
05/08/2025 02:00	14.992	356837.813	43.449	28.479	0.284	18.405	Off Peak Load GT12 SD Half Block
05/08/2025 03:00	14.993	355315.625	43.444	12.887	0.016	18.969	Off Peak Load GT12 SD Half Block
05/08/2025 04:00	14.995	356183.000	43.330	13.602	0.003	18.396	Off Peak Load GT12 SD Half Block
05/08/2025 05:00	14.996	354226.313	43.498	26.587	0.002	20.539	Off Peak Load GT12 SD Half Block
05/08/2025 06:00	14.998	354774.250	43.476	20.490	0.008	15.751	Off Peak Load GT12 SD Half Block
05/08/2025 07:00	15.000	354194.063	43.506	9.009	0.001	21.707	Off Peak Load GT12 SD Half Block
05/08/2025 08:00	15.003	356532.219	43.483	26.325	0.000	15.333	Off Peak Load GT12 SD Half Block
05/08/2025 09:00	14.950	365353.969	44.810	21.854	0.000	12.821	Off Peak Load
05/08/2025 10:00	14.997	335126.969	39.841	21.813	0.000	11.728	On Peak Load
05/08/2025 11:00	15.013	327.515	39.075	18.216	0.000	9.013	On Peak Load
05/08/2025 12:00	14.977	320.181	37.660	21.132	0.000	8.081	On Peak Load
05/08/2025 13:00	15.215	242.068	24.506	50.448	0.000	8.458	Off Peak Load
05/08/2025 14:00	15.093	348.392	40.802	19.366	0.001	8.760	On Peak Load
05/08/2025 15:00	15.049	333.632	39.725	22.991	0.001	8.079	On Peak Load
05/08/2025 16:00	15.051	337.810	39.853	12.522	0.001	7.796	On Peak Load
05/08/2025 17:00	15.042	332.229	39.852	15.932	0.001	7.990	On Peak Load
05/08/2025 18:00	15.009	341.928	41.010	23.192	0.001	9.828	On Peak Load
05/08/2025 19:00	14.975	332.453	40.292	24.569	0.000	12.524	On Peak Load
05/08/2025 20:00	14.958	341.042	40.939	21.122	0.000	14.892	On Peak Load
05/08/2025 21:00	14.987	339.577	40.945	17.007	0.000	14.216	On Peak Load
05/08/2025 22:00	14.986	345.371	41.738	15.090	0.000	16.458	On Peak Load
05/08/2025 23:00	14.986	349.482	41.772	18.173	0.000	6.922	On Peak Load
06/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
06/08/2025 10:00	15.027	345.462	40.513	19.360	0.004	10.363	On Peak Load
06/08/2025 11:00	15.052	338.807	40.166	17.565	0.004	9.754	On Peak Load
06/08/2025 12:00	14.969	320.969	38.632	23.946	0.009	10.467	On Peak Load
06/08/2025 13:00	15.172	249.913	25.553	38.236	0.000	8.863	Off Peak Load
06/08/2025 14:00	15.050	333.127	39.372	24.157	0.002	8.618	On Peak Load
06/08/2025 15:00	15.028	334.876	39.913	23.834	0.002	8.063	On Peak Load
06/08/2025 16:00	15.031	341.053	40.949	20.560	0.003	10.466	On Peak Load
06/08/2025 17:00	15.003	332.970	40.407	20.121	0.002	13.091	On Peak Load
06/08/2025 18:00	14.982	337.396	40.965	18.903	0.000	14.235	On Peak Load
06/08/2025 19:00	14.970	329.916	39.846	15.357	0.001	15.357	On Peak Load
06/08/2025 20:00	14.967	329.259	39.573	17.370	0.005	16.373	On Peak Load
06/08/2025 21:00	14.936	330.275	39.828	15.528	0.011	16.623	On Peak Load
06/08/2025 22:00	14.903	319.195	38.934	17.194	0.009	20.119	On Peak Load
06/08/2025 23:00	14.887	329.068	40.577	18.088	0.007	10.363	On Peak Load
07/08/2025 00:00	14.926	374.865	46.475	23.318	0.005	20.195	Off Peak Load GT12 SD Half Block
07/08/2025 01:00	14.980	351.174	43.350	17.718	0.003	15.599	Off Peak Load GT12 SD Half Block
07/08/2025 02:00	14.985	350.657	43.538	16.725	0.001	11.114	Off Peak Load GT12 SD Half Block
07/08/2025 03:00	14.990	350.819	43.290	16.982	0.001	10.568	Off Peak Load GT12 SD Half Block
07/08/2025 04:00	14.994	353.725	43.386	16.981	0.002	10.150	Off Peak Load GT12 SD Half Block
07/08/2025 05:00	14.995	352.086	43.391	16.969	0.003	11.267	Off Peak Load GT12 SD Half Block
07/08/2025 06:00	14.989	353.642	43.306	17.021	0.004	11.716	Off Peak Load GT12 SD Half Block
07/08/2025 07:00	14.983	352.006	43.423	16.198	0.005	10.244	Off Peak Load GT12 SD Half Block
07/08/2025 08:00	14.994	356.189	43.192	16.807	0.006	11.455	Off Peak Load GT12 SD Half Block
07/08/2025 09:00	15.004	367.552	44.838	18.459	0.007	13.181	Off Peak Load
07/08/2025 10:00	15.025	354.030	42.151	16.675	0.008	11.825	On Peak Load
07/08/2025 11:00	14.985	334.266	39.814	17.737	0.007	11.589	On Peak Load
07/08/2025 12:00	14.946	320.433	38.200	17.961	0.006	9.670	On Peak Load
07/08/2025 13:00	15.199	246.963	25.110	41.858	0.005	10.459	Off Peak Load
07/08/2025 14:00	14.961	318.337	38.099	17.419	0.003	9.101	On Peak Load
07/08/2025 15:00	15.033	313.751	40.031	18.255	0.001	11.902	On Peak Load
07/08/2025 16:00	15.051	361.831	43.095	19.417	0.001	11.679	On Peak Load
07/08/2025 17:00	14.980	337.035	40.610	18.192	0.001	15.962	On Peak Load
07/08/2025 18:00	14.984	335.340	40.089	18.553	0.002	13.565	On Peak Load
07/08/2025 19:00	14.947	336.756	40.548	18.391	0.003	15.382	On Peak Load
07/08/2025 20:00	14.973	331.287	39.869	17.391	0.002	14.567	On Peak Load
07/08/2025 21:00	14.931	339.628	40.743	15.789	0.002	17.564	On Peak Load
07/08/2025 22:00	14.924	331.726	40.376	15.664	0.002	11.903	On Peak Load
07/08/2025 23:00	14.907	336.554	40.861	15.371	0.002	10.051	On Peak Load
08/08/2025 00:00	14.979	371.929	45.663	18.711	0.002	11.642	Off Peak Load GT12 SD Half Block
08/08/2025 01:00	15.005	352.616	43.423	16.189	0.002	13.722	Off Peak Load GT12 SD Half Block
08/08/2025 02:00	14.983	352.890	43.483	16.789	0.002	15.443	Off Peak Load GT12 SD Half Block
08/08/2025 03:00	14.987	351.948	43.547	17.009	0.002	15.616	Off Peak Load GT12 SD Half Block
08/08/2025 04:00	14.974	354.121	43.460	16.071	0.001	13.678	Off Peak Load GT12 SD Half Block
08/08/2025 05:00	14.980	348.354	43.444	15.973	0.001	13.489	Off Peak Load GT12 SD Half Block
08/08/2025 06:00	14.985	347.152	43.386	17.993	0.000	11.114	Off Peak Load GT12 SD Half Block
08/08/2025 07:00	14.987	346.017	43.293	17.561	0.001	13.231	Off Peak Load GT12 SD Half Block
08/08/2025 08:00	14.984	348.276	43.302	15.937	0.001	15.532	Off Peak Load GT12 SD Half Block
08/08/2025 09:00	14.950	370.701	46.703	20.211	0.002	12.345	Off Peak Load
08/08/2025 10:00	14.938	334.638	40.507	16.077	0.002	11.734	On Peak Load
08/08/2025 11:00	14.947	317.143	38.346	13.787	0.002	8.881	On Peak Load
08/08/2025 12:00	14.901	323.416	38.807	15.688	0.003	7.386	On Peak Load
08/08/2025 13:00	15.200	245.436	24.517	38.163	0.003	6.624	Off Peak Load
08/08/2025 14:00	14.908	331.592	39.748	16.426	0.003	7.537	On Peak Load
08/08/2025 15:00	15.098	345.396	41.198	17.803	0.003	9.071	On Peak Load
08/08/2025 16:00	15.111	343.228	41.130	18.591	0.003	9.748	On Peak Load
08/08/2025 17:00	15.050	353.757	42.118	18.521	0.003	10.220	On Peak Load

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG11  
11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT11/L LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	
				ppm	mg/m3	mg/m3	
08/08/2025 18:00	14.999	349.929	41.932	18.805	0.003	12.477	On Peak Load
08/08/2025 19:00	15.001	357.262	43.477	18.296	0.003	17.665	On Peak Load
08/08/2025 20:00	14.929	331.883	40.127	17.460	0.002	12.250	On Peak Load
08/08/2025 21:00	15.009	335.249	40.688	17.862	0.001	18.090	On Peak Load
08/08/2025 22:00	14.962	336.569	39.850	17.434	0.001	13.921	On Peak Load
08/08/2025 23:00	14.990	349.955	42.518	16.684	0.000	13.231	On Peak Load
09/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
09/08/2025 10:00	14.974	326.601	38.831	17.428	0.001	10.059	On Peak Load
09/08/2025 11:00	15.015	340.351	40.600	17.377	0.001	9.046	On Peak Load
09/08/2025 12:00	14.899	322.201	39.382	17.857	0.001	11.293	On Peak Load
09/08/2025 13:00	15.154	238.186	33.839	47.019	0.002	16.395	Off Peak Load
09/08/2025 14:00	14.898	321.442	38.966	17.034	0.002	18.092	On Peak Load
09/08/2025 15:00	14.938	328.891	40.015	16.922	0.002	16.101	On Peak Load
09/08/2025 16:00	14.927	318.731	38.431	15.401	0.003	9.936	On Peak Load
09/08/2025 17:00	14.892	311.147	37.622	15.054	0.003	12.438	On Peak Load
09/08/2025 18:00	14.924	315.637	38.175	15.484	0.003	14.817	On Peak Load
09/08/2025 19:00	14.904	319.689	38.896	16.120	0.003	14.720	On Peak Load
09/08/2025 20:00	14.889	321.485	39.134	15.543	0.003	12.803	On Peak Load
09/08/2025 21:00							

Site Name:  
Stack Name:  
Periodically:

GNL2  
HRSG11  
11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GT1G11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	mg/m3	
12/08/2025 15:00	15.121	256.177	26.605	16.103	0.000	8.876	Off Peak Load	
12/08/2025 16:00	15.061	256.341	27.361	34.097	0.000	8.257	Off Peak Load	
12/08/2025 17:00	15.072	256.767	27.895	35.219	0.000	9.029	Off Peak Load	
12/08/2025 18:00	15.165	247.124	25.514	40.545	0.001	11.407	Off Peak Load	
12/08/2025 19:00	14.944	335.634	40.394	18.400	0.001	14.231	On Peak Load	
12/08/2025 20:00	14.934	337.246	39.809	18.415	0.001	18.419	On Peak Load	
12/08/2025 21:00	14.943	328.195	40.172	17.961	0.002	21.029	On Peak Load	
12/08/2025 22:00	14.914	332.401	40.323	18.296	0.002	14.062	On Peak Load	
12/08/2025 23:00	14.868	325.720	39.794	17.731	0.002	11.670	On Peak Load	
13/08/2025 00:00	14.961	260.532	29.260	28.849	0.002	10.384	Off Peak Load	
13/08/2025 01:00	14.942	263.465	29.693	28.332	0.002	11.482	Off Peak Load	
13/08/2025 02:00	14.969	261.110	29.541	29.643	0.001	12.054	Off Peak Load	
13/08/2025 03:00	14.981	256.465	29.092	30.786	0.001	10.249	Off Peak Load	
13/08/2025 04:00	14.988	258.370	29.012	31.245	0.000	12.955	Off Peak Load	
13/08/2025 05:00	15.007	258.113	28.878	30.897	0.000	14.847	Off Peak Load	
13/08/2025 06:00	14.976	260.945	29.606	31.535	0.001	21.385	Off Peak Load	
13/08/2025 07:00	15.019	257.957	28.797	32.868	0.001	13.971	Off Peak Load	
13/08/2025 08:00	15.005	259.685	29.731	28.069	0.002	14.542	Off Peak Load	
13/08/2025 09:00	15.169	248.145	25.865	39.173	0.002	10.851	Off Peak Load	
13/08/2025 10:00	15.021	325.512	39.079	17.589	0.001	9.135	Off Peak Load	
13/08/2025 11:00	15.059	325.497	39.448	17.886	0.001	8.882	Off Peak Load	
13/08/2025 12:00	14.959	307.406	36.908	17.795	0.001	9.238	Off Peak Load	
13/08/2025 13:00	15.095	241.661	25.470	41.447	0.001	15.314	Off Peak Load	
13/08/2025 14:00	14.902	321.489	39.390	17.765	0.000	14.001	On Peak Load	
13/08/2025 15:00	14.972	324.913	39.376	16.834	0.000	11.970	On Peak Load	
13/08/2025 16:00	14.978	331.649	40.072	16.816	0.000	11.721	On Peak Load	
13/08/2025 17:00	15.008	335.664	40.577	16.872	0.000	11.487	On Peak Load	
13/08/2025 18:00	14.987	332.096	40.293	16.724	0.001	11.866	On Peak Load	
13/08/2025 19:00	14.962	337.867	41.243	17.151	0.001	12.895	On Peak Load	
13/08/2025 20:00	14.934	329.582	39.875	16.730	0.001	11.452	On Peak Load	
13/08/2025 21:00	14.928	327.905	40.173	16.588	0.001	10.157	On Peak Load	
13/08/2025 22:00	14.944	335.425	40.414	16.413	0.001	10.946	On Peak Load	
13/08/2025 23:00	14.956	340.206	41.216	14.029	0.001	14.029	On Peak Load	
14/08/2025 00:00	14.965	255.700	27.967	37.927	0.002	13.141	Off Peak Load	
14/08/2025 01:00	14.907	305.031	36.691	14.708	0.002	12.813	Off Peak Load	
14/08/2025 02:00	14.915	305.086	37.100	15.451	0.001	9.397	Off Peak Load	
14/08/2025 03:00	14.941	304.460	36.761	15.573	0.001	9.351	Off Peak Load	
14/08/2025 04:00	14.930	301.218	36.118	16.008	0.001	12.093	Off Peak Load	
14/08/2025 05:00	14.942	311.199	37.237	16.937	0.001	13.672	Off Peak Load	
14/08/2025 06:00	14.927	304.247	36.826	15.555	0.001	8.143	Off Peak Load	
14/08/2025 07:00	14.897	299.312	35.701	15.402	0.001	10.407	Off Peak Load	
14/08/2025 08:00	14.892	284.634	33.960	14.935	0.001	10.726	Off Peak Load	
14/08/2025 09:00	15.116	253.744	27.769	37.788	0.002	10.208	Off Peak Load	
14/08/2025 10:00	15.088	337.608	40.536	18.376	0.004	8.450	On Peak Load	
14/08/2025 11:00	14.425	313.902	37.970	12.168	0.001	1.378	On Peak Load	
14/08/2025 12:00	15.050	327.528	39.468	17.031	0.001	1.172	On Peak Load	
14/08/2025 13:00	15.165	243.140	24.682	41.282	0.000	10.097	Off Peak Load	
14/08/2025 14:00	15.128	350.811	41.970	16.634	0.000	0.528	On Peak Load	
14/08/2025 15:00	15.098	342.330	41.076	16.238	0.000	1.042	On Peak Load	
14/08/2025 16:00	15.119	335.884	40.522	17.404	0.001	0.019	On Peak Load	
14/08/2025 17:00	15.095	343.915	41.430	17.125	0.001	0.478	On Peak Load	
14/08/2025 18:00	15.098	347.315	41.832	19.965	0.001	2.981	On Peak Load	
14/08/2025 19:00	15.047	345.557	41.579	18.811	0.001	3.767	On Peak Load	
14/08/2025 20:00	15.015	344.588	41.649	16.532	0.001	6.245	On Peak Load	
14/08/2025 21:00	15.011	347.769	41.849	16.301	0.001	8.033	On Peak Load	
14/08/2025 22:00	15.003	344.931	41.749	15.864	0.001	3.541	On Peak Load	
14/08/2025 23:00	15.024	344.098.500	42.057	16.775	0.001	9.629	On Peak Load	
15/08/2025 00:00	14.957	262.449.156	29.045	26.855	0.001	7.539	Off Peak Load	
15/08/2025 01:00	14.962	216.920.531	37.863	14.287	0.000	4.280	Off Peak Load	
15/08/2025 02:00	14.975	225.942.381	39.207	14.208	0.000	9.207	Off Peak Load	
15/08/2025 03:00	14.941	314.549.375	38.137	14.549	0.000	5.145	Off Peak Load	
15/08/2025 04:00	14.917	304.017.250	36.634	12.997	0.000	5.619	Off Peak Load	
15/08/2025 05:00	14.890	315.315.688	38.092	12.976	0.000	3.968	Off Peak Load	
15/08/2025 06:00	14.922	299.492.656	36.278	13.352	0.001	3.439	Off Peak Load	
15/08/2025 07:00	14.927	299.202.688	35.076	12.409	0.001	3.309	Off Peak Load	
15/08/2025 08:00	14.883	277.854.594	33.014	13.811	0.001	2.670	Off Peak Load	
15/08/2025 09:00	15.133	254.930.406	26.643	35.602	0.001	2.149	Off Peak Load	
15/08/2025 10:00	15.056	342.565	41.472	14.555	0.002	1.885	On Peak Load	
15/08/2025 11:00	15.098	354.176	42.396	15.801	0.002	2.693	On Peak Load	
15/08/2025 12:00	15.053	341.809	41.163	15.128	0.001	1.496	On Peak Load	
15/08/2025 13:00	14.981	258.073	28.334	25.240	0.000	0.380	Off Peak Load	
15/08/2025 14:00	15.089	349.997	41.820	15.510	0.000	2.378	On Peak Load	
15/08/2025 15:00	15.083	347.769	41.768	15.604	0.001	1.604	On Peak Load	
15/08/2025 16:00	15.087	354.266	42.453	16.961	0.001	1.850	On Peak Load	
15/08/2025 17:00	15.050	341.526	41.342	15.769	0.002	3.325	On Peak Load	
15/08/2025 18:00	15.049	339.465	40.728	15.550	0.003	5.005	On Peak Load	
15/08/2025 19:00	15.054	343.865	41.193	17.129	0.003	7.095	On Peak Load	
15/08/2025 20:00	15.018	334.490	40.836	16.681	0.002	8.957	On Peak Load	
15/08/2025 21:00	14.889	339.369	41.005	16.861	0.002	5.522	On Peak Load	
15/08/2025 22:00	14.991	340.560	41.421	15.717	0.001	9.137	On Peak Load	
15/08/2025 23:00	15.030	343.853	41.572	16.539	0.001	6.447	On Peak Load	
16/08/2025 00:00	15.035	254.590	27.722	36.334	0.001	6.407	Off Peak Load	
16/08/2025 01:00	14.885	304.617	36.972	14.083	0.001	11.301	Off Peak Load	
16/08/2025 02:00	14.919	313.461	38.170	14.368	0.001	14.757	Off Peak Load	
16/08/2025 03:00	14.925	308.581	37.379	15.114	0.001	15.722	Off Peak Load	
16/08/2025 04:00	15.005	315.394	38.387	13.805	0.001	6.532	Off Peak Load	
16/08/2025 05:00	14.878	305.006	36.931	12.714	0.001	7.084	Off Peak Load	
16/08/2025 06:00	14.857	296.848	35.837	11.735	0.001	9.832	Off Peak Load	
16/08/2025 07:00	14.876	296.836	35.722	10.979	0.001	10.824	Off Peak Load	
16/08/2025 08:00	14.851	288.598	34.333	11.476	0.001	17.147	Off Peak Load	
16/08/2025 09:00	15.082	247.724	26.326	35.876	0.001	16.282	Off Peak Load	
16/08/2025 10:00	14.961	336.503	40.531	13.856	0.001	11.303	On Peak Load	
16/08/2025 11:00	15.026	338.767	41.068	16.278	0.001	6.181	On Peak Load	

Site Name:  
Stack Name:  
Periodically:

GNL2  
HRSG11  
11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GT1G11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	mg/m3	
18/08/2025 12:00	14.992	329.214	39.519	14.986	0.001	14.986	On Peak Load	
18/08/2025 13:00	15.281	238.179	24.099	44.324	0.000	5.395	Off Peak Load	
18/08/2025 14:00	15.083	337.865	40.499	15.590	0.000	3.196	On Peak Load	
18/08/2025 15:00	15.061	332.205	40.118	16.840	0.001	2.548	On Peak Load	
18/08/2025 16:00	15.069	334.638	40.794	16.804	0.001	4.867	On Peak Load	
18/08/2025 17:00	15.030	334.349	40.435	16.863	0.001	5.961	On Peak Load	
18/08/2025 18:00	15.020	338.043	40.579	17.657	0.002	7.905	On Peak Load	
18/08/2025 19:00	14.945	330.924	40.111	16.665	0.001	12.856	On Peak Load	
18/08/2025 20:00	14.968	329.999	40.307	17.180	0.001	16.162	On Peak Load	
18/08/2025 21:00	14.960	329.719	40.352	17.904	0.000	10.415	On Peak Load	
18/08/2025 22:00	14.932	335.644	40.783	15.882	0.000	8.083	On Peak Load	
18/08/2025 23:00	14.974	329.998.406	40.432	15.388	0.000	17.138	On Peak Load	
17/08/2025 00:00	15.047	250.751.391	27.120	39.141	0.001	8.813	Off Peak Load	
17/08/2025 01:00	14.880	300.724.500	35.724	12.400	0.002	8.074	Off Peak Load	
17/08/2025 02:00	14.874	296.852.094	36.050	13.342	0.002	11.079	Off Peak Load	
17/08/2025 03:00	14.861	288.712.281	34.926	12.767	0.001	7.330	Off Peak Load	
17/08/2025 04:00	14.841	287.683.938	34.601	13.231	0.001	12.152	Off Peak Load	
17/08/2025 05:00	14.834	285.871.531	34.616	11.827	0.001	9.988	Off Peak Load	
17/08/2025 06:00	14.818	283.730.750	34.285	11.055	0.001	16.946	Off Peak Load	
17/08/2025 07:00	14.798	272.571.584	32.708	12.348	0.000	16.696	Off Peak Load	

Site Name: GRLL2  
Stack Name: HRS011  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11_LOAD	HRSG01_NOx@7%O2	HRSG01_SOx@7%O2	HRSG01_Dust(7%O2)	
	m3/s	kg/hr	kg/hr	mg/m3	mg/m3	mg/m3	
2008/02/25 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
2008/02/25 10:00	15.025	316.335	37.615	16.146	0.000	0.907	On Peak Load
2008/02/25 11:00	15.055	313.841	37.572	15.678	0.000	0.214	On Peak Load
2008/02/25 12:00	14.970	305.593	36.523	16.015	0.000	0.652	On Peak Load
2008/02/25 13:00	15.181	248.483	25.783	34.980	0.000	0.026	Off Peak Load
2008/02/25 14:00	15.048	323.556	38.602	14.905	0.000	1.769	On Peak Load
2008/02/25 15:00	15.067	335.806	40.526	17.554	0.000	2.507	On Peak Load
2008/02/25 16:00	15.049	332.045	40.040	17.207	0.000	3.785	On Peak Load
2008/02/25 17:00	15.015	317.462	38.199	16.223	0.000	3.362	On Peak Load
2008/02/25 18:00	15.024	329.745	39.451	16.781	0.000	3.847	On Peak Load
2008/02/25 19:00	14.973	331.246	40.073	16.404	0.000	5.914	On Peak Load
2008/02/25 20:00	14.941	319.415	38.440	17.105	0.001	9.225	On Peak Load
2008/02/25 21:00	14.923	321.203	38.809	15.946	0.001	9.248	On Peak Load
2008/02/25 22:00	14.905	319.587	38.881	14.856	0.001	4.782	On Peak Load
2008/02/25 23:00	14.952	324.071	39.369	15.129	0.001	4.895	On Peak Load
21/08/2025 00:00	14.993	373.977	45.725	19.124	0.001	3.790	Off Peak Load GT12 SD Half Block
21/08/2025 01:00	14.991	350.546	43.124	16.365	0.002	4.150	Off Peak Load GT12 SD Half Block
21/08/2025 02:00	14.994	355.082	43.505	15.494	0.001	3.354	Off Peak Load GT12 SD Half Block
21/08/2025 03:00	14.998	353.727	43.338	15.690	0.001	4.437	Off Peak Load GT12 SD Half Block
21/08/2025 04:00	15.001	350.445	43.457	15.920	0.001	3.685	Off Peak Load GT12 SD Half Block
21/08/2025 05:00	15.004	352.048	43.485	15.560	0.001	3.549	Off Peak Load GT12 SD Half Block
21/08/2025 06:00	15.007	352.109	43.330	14.967	0.001	3.408	Off Peak Load GT12 SD Half Block
21/08/2025 07:00	15.011	351.298	43.411	15.446	0.000	3.030	Off Peak Load GT12 SD Half Block
21/08/2025 08:00	15.014	350.653	43.366	14.857	0.000	3.321	Off Peak Load GT12 SD Half Block
21/08/2025 09:00	15.038	368.597	45.249	18.984	0.000	2.587	Off Peak Load
21/08/2025 10:00	14.967	321.361	38.902	16.902	0.000	2.317	On Peak Load
21/08/2025 11:00	15.001	323.919	38.994	14.680	0.000	1.979	On Peak Load
21/08/2025 12:00	14.952	315.293	37.769	13.474	0.000	1.662	On Peak Load
21/08/2025 13:00	15.191	241.522	24.163	35.676	0.000	4.984	Off Peak Load
21/08/2025 14:00	14.989	337.852	40.836	14.741	0.000	10.360	On Peak Load
21/08/2025 15:00	14.951	327.774	39.854	16.639	0.001	6.685	On Peak Load
21/08/2025 16:00	14.949	335.766	41.026	16.110	0.001	3.816	On Peak Load
21/08/2025 17:00	14.914	319.587	39.589	15.085	0.001	2.433	On Peak Load
21/08/2025 18:00	14.907	319.093	38.947	14.252	0.001	4.465	On Peak Load
21/08/2025 19:00	14.929	333.415	40.474	14.019	0.000	4.913	On Peak Load
21/08/2025 20:00	14.914	315.350	38.149	12.925	0.000	8.539	On Peak Load
21/08/2025 21:00	14.904	315.329	38.502	13.001	0.000	6.258	On Peak Load
21/08/2025 22:00	14.948	317.340	38.829	15.175	0.000	15.091	On Peak Load
21/08/2025 23:00	14.936	321.431.063	39.141	15.544	0.000	16.578	On Peak Load
22/08/2025 00:00	14.970	370.617.750	46.295	20.211	0.000	15.708	Off Peak Load GT12 SD Half Block
22/08/2025 01:00	14.971	350.651.063	43.395	18.423	0.000	14.924	Off Peak Load GT12 SD Half Block
22/08/2025 02:00	14.972	352.072.813	43.396	17.748	0.000	16.825	Off Peak Load GT12 SD Half Block
22/08/2025 03:00	14.973	352.039.594	43.524	16.172	0.000	11.676	Off Peak Load GT12 SD Half Block
22/08/2025 04:00	14.973	350.044.563	43.365	16.192	0.001	6.942	Off Peak Load GT12 SD Half Block
22/08/2025 05:00	14.974	349.906.094	43.342	16.412	0.001	5.579	Off Peak Load GT12 SD Half Block
22/08/2025 06:00	14.975	351.475.188	43.436	15.957	0.001	5.082	Off Peak Load GT12 SD Half Block
22/08/2025 07:00	14.972	348.063.094	43.147	16.112	0.001	5.365	Off Peak Load GT12 SD Half Block
22/08/2025 08:00	14.962	350.788.781	43.388	16.258	0.001	8.114	Off Peak Load GT12 SD Half Block
22/08/2025 09:00	14.969	372.646.406	46.277	19.412	0.001	15.489	Off Peak Load
22/08/2025 10:00	14.941	326.780	39.209	14.964	0.000	6.968	On Peak Load
22/08/2025 11:00	14.989	326.741	39.798	14.879	0.000	5.288	On Peak Load
22/08/2025 12:00	14.885	323.601	39.524	16.556	0.001	19.207	On Peak Load
22/08/2025 13:00	15.052	248.447	26.357	34.064	0.001	10.885	Off Peak Load
22/08/2025 14:00	14.928	338.766	41.132	15.315	0.002	21.182	On Peak Load
22/08/2025 15:00	14.899	328.050	40.632	15.094	0.002	11.751	On Peak Load
22/08/2025 16:00	14.967	331.322	40.410	14.795	0.003	4.809	On Peak Load
22/08/2025 17:00	14.920	322.912	39.496	14.291	0.003	3.570	On Peak Load
22/08/2025 18:00	14.945	325.327	39.053	13.801	0.003	4.916	On Peak Load
22/08/2025 19:00	14.968	326.346	39.385	14.419	0.003	6.395	On Peak Load
22/08/2025 20:00	14.989	331.587	39.907	14.988	0.003	10.662	On Peak Load
22/08/2025 21:00	14.963	330.024	40.089	15.002	0.003	9.957	On Peak Load
22/08/2025 22:00	14.874	317.384	38.836	15.650	0.003	6.968	On Peak Load
22/08/2025 23:00	14.888	327.531	39.768	15.795	0.003	8.634	On Peak Load
23/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT11 SD Half Block
23/08/2025 11:00	14.964	323.697	38.408	16.341	0.002	5.599	On Peak Load
23/08/2025 12:00	14.939	323.291	38.003	16.158	0.002	5.528	On Peak Load
23/08/2025 13:00	15.207	242.990	24.218	37.046	0.001	8.179	Off Peak Load
23/08/2025 14:00	15.059	341.749	40.983	17.931	0.001	2.852	On Peak Load
23/08/2025 15:00	15.026	343.895	40.865	17.721	0.000	3.082	On Peak Load
23/08/2025 16:00	15.101	341.327	40.530	16.726	0.000	2.725	On Peak Load
23/08/2025 17:00	15.037	325.420	39.253	15.306	0.001	2.196	On Peak Load
23/08/2025 18:00	14.972	317.658	38.120	16.136	0.001	6.042	On Peak Load
23/08/2025 19:00	14.986	317.989	38.911	15.477	0.001	7.991	On Peak Load
23/08/2025 20:00	14.951	321.482	38.555	15.648	0.000	9.460	On Peak Load
23/08/2025 21:00	14.973	339.616	40.432	16.794	0.000	4.375	On Peak Load
23/08/2025 22:00	14.968	341.783	41.803	15.838	0.000	3.538	On Peak Load
23/08/2025 23:00	14.970	344.536	41.911	15.773	0.001	3.208	On Peak Load
24/08/2025 00:00	15.030	376.536	46.116	20.093	0.001	3.260	Off Peak Load GT12 SD Half Block
24/08/2025 01:00	15.004	354.035	43.345	16.649	0.001	5.613	Off Peak Load GT12 SD Half Block
24/08/2025 02:00	15.011	352.124	43.294	17.116	0.002	11.648	Off Peak Load GT12 SD Half Block
24/08/2025 03:00	15.017	352.564	43.360	17.725	0.002	9.191	Off Peak Load GT12 SD Half Block
24/08/2025 04:00	15.024	353.097	43.372	18.751	0.002	11.590	Off Peak Load GT12 SD Half Block
24/08/2025 05:00	15.030	352.098	43.368	17.970	0.002	6.891	Off Peak Load GT12 SD Half Block

Site Name: GRLL2  
Stack Name: HRS011  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GTG11_LOAD	HRSG01_NOx@7%O2	HRSG01_SOx@7%O2	HRSG01_Dust(7%O2)	
	m3/s	kg/hr	kg/hr	mg/m3	mg/m3	mg/m3	
24/08/2025 06:00	15.045	351.461	43.228	17.201	0.002	5.865	Off Peak Load GT12 SD Half Block
24/08/2025 07:00	15.068	352.245	43.312	17.338	0.003	7.869	Off Peak Load GT12 SD Half Block
24/08/2025 08:00	15.091	352.236	43.319	17.491	0.003	5.800	Off Peak Load GT12 SD Half Block
24/08/2025 09:00	15.114	352.755	43.244	17.814	0.003	4.017	Off Peak Load GT12 SD Half Block
24/08/2025 10:00	15.139	355.135	43.244	17.808	0.003	4.305	Off Peak Load GT12 SD Half Block
24/08/2025 11:00	15.151	358.379	43.355	17.963	0.003	1.973	Off Peak Load GT12 SD Half Block
24/08/2025 12:00	15.163	358.663	43.285	18.938	0.003	1.628	Off Peak Load GT12 SD Half Block
24/08/2025 13:00	15.152	356.432	43.443	19.466	0.003	0.936	Off Peak Load GT12 SD Half Block
24/08/2025 14:00	15.142	358.400	43.273	19.335	0.003	1.128	Off Peak Load GT12 SD Half Block
24/08/2025 15:00	15.117	357.500	43.288	19.459	0.003	2.504	Off Peak Load GT12 SD Half Block
24/08/2025 16:00	15.107	360.035	43.449	18.750	0.003	4.748	Off Peak Load GT12 SD Half Block
24/08/2025 17:00	15.079	356.270	43.702	19.622	0.003	4.910	Off Peak Load GT12 SD Half Block
24/08/2025 18:00	15.024	368.330	45.198	21.566	0.003	6.826	Off Peak Load
24/08/2025 19:00	14.969	320.444	38.409	16.867	0.004	6.669	On Peak Load
24/08/2025 20:00	14.909	321.653	38.621	15.947	0.003	7.291	On Peak Load
24/08/2025 21:00	14.914	312.297	37.420	15.363	0.002	9.536	On Peak Load
24/08/2025 22:00	14.933	326.244	39.487	15.746	0.002	20.790	On Peak Load
24/08/2025 23:00	14.920	325.475	39.647	16.133	0.002	9.746	On Peak Load
25/08/2025 00:00	14.847	274.368	31.768	12.008	0.002	6.883	Off Peak Load
25/08/2025 01:00	14.867	288.019	33.225	11.800	0.002	7.540	Off Peak Load
25/08/2025 02:00	14.867	288.531	33.876	11.793	0.001	10.780	Off Peak Load
25/08/2025 03:00	14.846	278.217	32.825	11.293	0.000	14.281	Off Peak Load
25/08/2025 04:00	14.876	274.420	32.270	10.988	0.001	8.399	Off Peak Load
25/08/2025 05:00	14.827	271.057	32.208	10.550	0.001	11.590	Off Peak Load
25/08/2025 06:00	14.820	280.433	33.111	11.079	0.002	17.217	Off Peak Load
25/08/2025 07:00	14.879	266.150	30.432	12.233			

Site Name:  
Stack Name:  
Periodically:

GRILL2  
HRSG11  
1/Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT/G11 LOAD	HRSG1 NO <sub>x</sub> @7%O <sub>2</sub>	HRSG1 SO <sub>x</sub> @7%O <sub>2</sub>	HRSG1 Dust (7%O <sub>2</sub> )	
	%	m3/hr	MW	ppm	ppm	mg/m3	
28/08/2025 03:00	14.869	286.625	34.247	15.619	0.000	8.063	Off Peak Load
28/08/2025 04:00	14.833	284.547	34.160	14.827	0.000	6.615	Off Peak Load
28/08/2025 05:00	14.834	288.004	34.631	13.219	0.000	5.134	Off Peak Load
28/08/2025 06:00	14.892	300.360	36.160	14.719	0.000	7.535	Off Peak Load
28/08/2025 07:00	14.919	306.837	36.272	15.458	0.000	7.819	Off Peak Load
28/08/2025 08:00	14.934	268.521	30.803	22.883	0.000	8.724	Off Peak Load
28/08/2025 09:00	15.304	235.584	23.642	45.169	0.000	5.860	Off Peak Load
28/08/2025 10:00	14.943	309.024	36.709	15.920	0.000	3.124	On Peak Load
28/08/2025 11:00	14.976	292.800	35.035	15.066	0.001	2.071	On Peak Load
28/08/2025 12:00	15.011	294.689	34.594	14.577	0.001	1.059	On Peak Load
28/08/2025 13:00	15.503	220.245	20.547	49.148	0.002	0.756	Off Peak Load
28/08/2025 14:00	14.981	289.606	33.952	14.589	0.002	0.020	On Peak Load
28/08/2025 15:00	15.040	305.238	36.306	16.238	0.002	0.229	On Peak Load
28/08/2025 16:00	15.024	307.067	36.838	16.551	0.001	1.191	On Peak Load
28/08/2025 17:00	15.001	313.687	37.461	16.251	0.002	3.510	On Peak Load
28/08/2025 18:00	14.966	318.135	38.483	16.506	0.005	6.373	On Peak Load
28/08/2025 19:00	14.976	319.284	38.290	16.834	0.004	10.004	On Peak Load
28/08/2025 20:00	14.940	312.261	37.831	16.149	0.004	9.843	On Peak Load
28/08/2025 21:00	14.956	321.431	39.142	16.941	0.003	16.778	On Peak Load
28/08/2025 22:00	14.911	313.808	38.207	15.788	0.002	11.313	On Peak Load
28/08/2025 23:00	14.887	325250.656	39.712	15.344	0.002	7.913	On Peak Load
29/08/2025 00:00	14.951	258420.953	27.957	37.774	0.001	6.361	Off Peak Load
29/08/2025 01:00	14.848	297100.281	36.617	15.263	0.001	8.015	Off Peak Load
29/08/2025 02:00	14.895	307070.750	37.111	13.986	0.000	9.603	Off Peak Load
29/08/2025 03:00	14.817	300967.438	35.778	13.243	0.000	9.006	Off Peak Load
29/08/2025 04:00	14.861	294931.938	35.497	13.325	0.000	13.770	Off Peak Load
29/08/2025 05:00	14.903	303780.313	36.338	15.044	0.000	7.382	Off Peak Load
29/08/2025 06:00	14.875	290796.281	35.012	14.385	0.000	6.524	Off Peak Load
29/08/2025 07:00	14.943	295325.156	34.398	14.766	0.000	13.138	Off Peak Load
29/08/2025 08:00	14.864	276377.969	32.416	11.615	0.000	5.575	Off Peak Load
29/08/2025 09:00	15.305	240171.594	23.907	44.500	0.000	4.148	Off Peak Load
29/08/2025 10:00	14.995	312642.250	38.136	15.795	0.000	2.777	On Peak Load
29/08/2025 11:00	15.015	305.972	36.801	16.372	0.000	1.658	On Peak Load
29/08/2025 12:00	14.992	286.593	33.990	15.199	0.001	1.179	On Peak Load
29/08/2025 13:00	15.436	227.508	21.262	50.103	0.001	0.622	Off Peak Load
29/08/2025 14:00	15.025	288.841	34.317	16.120	0.001	0.025	On Peak Load
29/08/2025 15:00	15.011	299.685	35.434	16.867	0.001	0.365	On Peak Load
29/08/2025 16:00	15.098	327.359	38.936	16.799	0.001	0.644	On Peak Load
29/08/2025 17:00	15.077	322.647	38.549	16.714	0.001	0.834	On Peak Load
29/08/2025 18:00	15.051	336.572	40.158	17.283	0.001	2.114	On Peak Load
29/08/2025 19:00	14.997	332.411	40.108	16.662	0.001	6.353	On Peak Load
29/08/2025 20:00	14.967	318.503	38.307	15.293	0.001	6.132	On Peak Load
29/08/2025 21:00	14.902	315.907	38.459	15.577	0.001	8.557	On Peak Load
29/08/2025 22:00	14.914	319.432	38.315	16.712	0.001	4.785	On Peak Load
29/08/2025 23:00	14.937	324784.125	39.579	16.215	0.000	3.659	On Peak Load
30/08/2025 00:00	15.138	250912.047	26.680	39.795	0.000	7.196	Off Peak Load
30/08/2025 01:00	14.870	302003.719	36.057	13.633	0.000	6.079	Off Peak Load
30/08/2025 02:00	14.850	296646.406	35.505	12.825	0.000	7.004	Off Peak Load
30/08/2025 03:00	14.868	294960.781	35.467	13.759	0.000	4.785	Off Peak Load
30/08/2025 04:00	14.859	293703.063	35.107	13.470	0.000	5.371	Off Peak Load
30/08/2025 05:00	14.876	292944.938	34.416	14.160	0.000	4.572	Off Peak Load
30/08/2025 06:00	14.857	292958.844	34.797	14.027	0.000	5.518	Off Peak Load
30/08/2025 07:00	14.847	294840.156	33.720	13.168	0.000	7.558	Off Peak Load
30/08/2025 08:00	14.937	269598.344	31.236	18.602	0.000	5.701	Off Peak Load
30/08/2025 09:00	15.232	246847.078	26.035	41.332	0.000	3.514	Off Peak Load
30/08/2025 10:00	15.042	322.978	38.948	15.936	0.000	2.579	On Peak Load
30/08/2025 11:00	15.015	316.939	38.001	18.045	0.000	1.735	On Peak Load
30/08/2025 12:00	15.039	319.075	38.067	17.504	0.001	1.457	On Peak Load
30/08/2025 13:00	15.295	237.496	23.813	45.510	0.001	1.261	Off Peak Load
30/08/2025 14:00	15.041	316.921	37.830	17.460	0.001	1.477	On Peak Load
30/08/2025 15:00	15.069	317.460	38.389	17.732	0.001	1.325	On Peak Load
30/08/2025 16:00	15.086	331.732	39.392	17.364	0.001	1.295	On Peak Load
30/08/2025 17:00	15.067	326.614	39.284	16.703	0.002	1.339	On Peak Load
30/08/2025 18:00	15.029	328.176	38.749	16.317	0.002	2.969	On Peak Load
30/08/2025 19:00	15.005	325.113	39.212	17.161	0.001	5.465	On Peak Load
30/08/2025 20:00	14.983	322.624	39.050	16.811	0.001	7.592	On Peak Load
30/08/2025 21:00	14.960	329.628	39.518	17.143	0.001	10.353	On Peak Load
30/08/2025 22:00	14.943	321.877	38.759	16.361	0.001	11.195	On Peak Load
30/08/2025 23:00	14.978	331.909	38.917	16.685	0.000	6.742	On Peak Load
31/08/2025 00:00	15.060	369.740	45.295	20.569	0.000	8.156	Off Peak Load GT12 SD Half Block
31/08/2025 01:00	15.069	355.262	43.352	18.585	0.000	8.089	Off Peak Load GT12 SD Half Block
31/08/2025 02:00	15.047	354.884	43.388	18.869	0.000	7.722	Off Peak Load GT12 SD Half Block
31/08/2025 03:00	15.041	354.079	43.155	18.908	0.001	12.560	Off Peak Load GT12 SD Half Block
31/08/2025 04:00	15.044	352.906	43.439	18.241	0.002	12.825	Off Peak Load GT12 SD Half Block
31/08/2025 05:00	15.054	353.863	43.433	18.785	0.002	7.452	Off Peak Load GT12 SD Half Block
31/08/2025 06:00	15.064	355.056	43.375	18.953	0.003	8.702	Off Peak Load GT12 SD Half Block
31/08/2025 07:00	15.075	352.196	43.235	17.630	0.004	8.808	Off Peak Load GT12 SD Half Block
31/08/2025 08:00	15.085	354.201	43.431	18.373	0.004	7.745	Off Peak Load GT12 SD Half Block
31/08/2025 09:00	15.095	354.278	43.279	18.130	0.005	6.912	Off Peak Load GT12 SD Half Block
31/08/2025 10:00	15.115	359.103	43.305	18.714	0.004	4.495	Off Peak Load GT12 SD Half Block
31/08/2025 11:00	15.122	358.485	43.276	19.028	0.003	2.636	Off Peak Load GT12 SD Half Block
31/08/2025 12:00	15.153	360.151	43.260	18.602	0.002	2.811	Off Peak Load GT12 SD Half Block
31/08/2025 13:00	15.122	358.290	43.299	18.726	0.001	5.296	Off Peak Load GT12 SD Half Block
31/08/2025 14:00	15.105	356.208	43.371	19.330	0.000	4.510	Off Peak Load GT12 SD Half Block
31/08/2025 15:00	15.147	356.446	43.244	20.446	0.001	4.815	Off Peak Load GT12 SD Half Block
31/08/2025 16:00	15.106	359.252	43.264	20.376	0.002	5.013	Off Peak Load GT12 SD Half Block
31/08/2025 17:00	15.069	357.784	43.349	20.374	0.003	7.034	Off Peak Load GT12 SD Half Block
31/08/2025 18:00	15.016	366.517	45.191	22.313	0.002	9.652	Off Peak Load
31/08/2025 19:00	14.926	299.677	35.840	17.127	0.002	11.918	On Peak Load
31/08/2025 20:00	14.941	308.172	37.022	17.324	0.001	10.469	On Peak Load
31/08/2025 21:00	14.904	310.379	38.625	18.407	0.001	12.360	Off Peak Load
31/08/2025 22:00	14.899	306.005	37.414	17.457	0.000	17.309	On Peak Load
31/08/2025 23:00	14.906	314197.625	38.676	16.788	0.000	16.702	On Peak Load

Site Name:  
Stack Name:  
Periodically:

GRILL2  
HRSG11  
1/Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT/G11 LOAD	HRSG1 NO <sub>x</sub> @7%O <sub>2</sub>	HRSG1 SO <sub>x</sub> @7%O <sub>2</sub>	HRSG1 Dust (7%O <sub>2</sub> )	
	%	m3/hr	MW	ppm	ppm	mg/m3	
Minimum	14.43	220.345	20.55	3.31	0.00	0.02	
Maximum	15.50	376.536	46.86	51.62	0.38	24.06	
Avg	14.99	314.466	37.40	19.13	0.00	8.83	
SUM							
GT11				Avg	0	25	

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG12  
11Aug25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GT1G11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust @7%O2	HRSG1 MW	
01/08/2025 00:00	13.934	153.601	33.386	12.205	0.017	18.721	13.721	Off Peak Load
01/08/2025 01:00	14.044	162.326	35.749	23.207	0.010	13.871	13.871	Off Peak Load
01/08/2025 02:00	14.070	166.926	36.412	24.328	0.122	12.588	12.588	Off Peak Load
01/08/2025 03:00	14.065	161.613	35.653	23.726	0.038	13.848	13.848	Off Peak Load
01/08/2025 04:00	14.040	168.760	35.740	23.049	0.009	15.109	15.109	Off Peak Load
01/08/2025 05:00	14.042	157.558	34.712	21.439	0.009	16.131	16.131	Off Peak Load
01/08/2025 06:00	14.006	153.601	33.326	22.792	0.010	16.468	16.468	Off Peak Load
01/08/2025 07:00	14.022	157.205	33.744	20.765	0.010	14.797	14.797	Off Peak Load
01/08/2025 08:00	14.090	145.098	31.292	18.882	0.011	12.833	12.833	Off Peak Load
01/08/2025 09:00	14.384	121.838	25.259	24.894	0.012	10.549	10.549	Off Peak Load
01/08/2025 10:00	14.217	191.792	37.746	26.227	0.012	7.362	7.362	On Peak Load
01/08/2025 11:00	14.191	191.151	38.158	26.862	0.013	7.160	7.160	On Peak Load
01/08/2025 12:00	14.161	190.424	37.696	23.711	0.013	7.330	7.330	On Peak Load
01/08/2025 13:00	14.464	123.452	24.386	36.944	0.013	7.074	7.074	Off Peak Load
01/08/2025 14:00	14.214	200.207	38.354	27.285	0.013	6.423	6.423	On Peak Load
01/08/2025 15:00	14.213	196.004	38.592	24.162	0.013	6.496	6.496	On Peak Load
01/08/2025 16:00	14.188	202.952	38.849	25.573	0.013	6.810	6.810	On Peak Load
01/08/2025 17:00	14.186	199.677	37.929	24.931	0.013	8.168	8.168	On Peak Load
01/08/2025 18:00	14.144	198.205	38.933	25.922	0.013	10.325	10.325	On Peak Load
01/08/2025 19:00	14.111	190.343	38.959	27.980	0.013	15.580	15.580	On Peak Load
01/08/2025 20:00	14.083	184.451	38.792	25.157	0.013	16.699	16.699	On Peak Load
01/08/2025 21:00	14.133	192.167	39.745	23.710	0.012	19.243	19.243	On Peak Load
01/08/2025 22:00	14.081	188.585	39.328	21.678	0.012	19.200	19.200	On Peak Load
01/08/2025 23:00	14.088	187864.938	38.723	24.143	0.012	19.528	19.528	On Peak Load
02/08/2025 00:00	14.183	129923.758	28.588	27.197	0.012	21.708	21.708	Off Peak Load
02/08/2025 01:00	14.035	178107.625	36.877	20.413	0.012	18.498	18.498	Off Peak Load
02/08/2025 02:00	14.042	178837.500	36.502	23.971	0.012	24.293	24.293	Off Peak Load
02/08/2025 03:00	14.105	189879.422	37.686	22.115	0.012	14.670	14.670	Off Peak Load
02/08/2025 04:00	14.026	172926.297	35.946	24.491	0.012	14.503	14.503	Off Peak Load
02/08/2025 05:00	14.032	171253.688	35.697	20.384	0.012	14.549	14.549	Off Peak Load
02/08/2025 06:00	14.027	177792.328	36.743	21.711	0.012	15.658	15.658	Off Peak Load
02/08/2025 07:00	14.002	168863.984	36.100	23.056	0.013	22.059	22.059	Off Peak Load
02/08/2025 08:00	14.036	160200.859	31.856	24.708	0.013	12.836	12.836	Off Peak Load
02/08/2025 09:00	14.316	131178.422	25.835	24.790	0.013	11.411	11.411	Off Peak Load
02/08/2025 10:00	14.149	200.417	37.632	24.670	0.013	9.039	9.039	On Peak Load
02/08/2025 11:00	14.164	218.672	38.452	26.261	0.013	7.928	7.928	On Peak Load
02/08/2025 12:00	14.134	193.419	36.413	23.198	0.013	7.466	7.466	On Peak Load
02/08/2025 13:00	14.405	125.760	25.291	23.169	0.014	7.578	7.578	Off Peak Load
02/08/2025 14:00	14.174	195.771	37.516	24.451	0.014	7.556	7.556	On Peak Load
02/08/2025 15:00	14.212	207.068	38.266	23.334	0.014	7.500	7.500	On Peak Load
02/08/2025 16:00	14.225	229.569	40.549	25.103	0.014	7.810	7.810	On Peak Load
02/08/2025 17:00	14.204	197.110	38.012	26.339	0.014	7.892	7.892	On Peak Load
02/08/2025 18:00	14.222	201.354	39.533	25.040	0.014	9.677	9.677	On Peak Load
02/08/2025 19:00	14.168	199.102	40.475	23.398	0.014	12.203	12.203	On Peak Load
02/08/2025 20:00	14.152	196.141	40.563	22.886	0.013	14.912	14.912	On Peak Load
02/08/2025 21:00	14.138	196.284	40.037	23.584	0.012	13.671	13.671	On Peak Load
02/08/2025 22:00	14.125	199.233	40.531	22.212	0.011	17.621	17.621	On Peak Load
02/08/2025 23:00	14.112	189955.578	39.500	25.271	0.010	18.236	18.236	On Peak Load
03/08/2025 00:00	14.211	124267.664	28.341	25.937	0.009	17.431	17.431	Off Peak Load
03/08/2025 01:00	13.986	159534.266	35.378	20.047	0.008	18.827	18.827	Off Peak Load
03/08/2025 02:00	14.013	169790.125	36.841	22.726	0.007	22.295	22.295	Off Peak Load
03/08/2025 03:00	14.018	172420.484	37.356	20.369	0.007	20.202	20.202	Off Peak Load
03/08/2025 04:00	13.980	157481.109	34.837	22.200	0.007	19.329	19.329	Off Peak Load
03/08/2025 05:00	13.991	160807.563	35.637	18.087	0.008	23.211	23.211	Off Peak Load
03/08/2025 06:00	13.958	145687.078	34.724	22.050	0.008	21.744	21.744	Off Peak Load
03/08/2025 07:00	13.997	150847.531	34.122	19.584	0.009	15.803	15.803	Off Peak Load
03/08/2025 08:00	14.048	143751.938	31.474	16.220	0.009	18.579	18.579	Off Peak Load
03/08/2025 09:00	14.015	154131.094	33.107	20.406	0.010	16.780	16.780	Off Peak Load
03/08/2025 10:00	14.161	146.114	30.287	22.652	0.010	13.110	13.110	Off Peak Load
03/08/2025 11:00	14.138	151.647	30.367	20.310	0.011	8.994	8.994	Off Peak Load
03/08/2025 12:00	14.151	149.344	29.540	18.496	0.010	8.478	8.478	Off Peak Load
03/08/2025 13:00	14.136	149.912	31.121	19.207	0.009	8.177	8.177	Off Peak Load
03/08/2025 14:00	14.120	158.368	33.556	17.080	0.009	7.968	7.968	Off Peak Load
03/08/2025 15:00	14.100	161.170	33.686	18.347	0.008	7.571	7.571	Off Peak Load
03/08/2025 16:00	14.105	145.970	30.670	22.620	0.007	7.496	7.496	Off Peak Load
03/08/2025 17:00	14.117	153.399	32.506	19.027	0.007	7.469	7.469	Off Peak Load
03/08/2025 18:00	14.204	139.212	30.630	21.230	0.006	9.067	9.067	Off Peak Load
03/08/2025 19:00	14.149	200.217	40.500	24.401	0.006	11.381	11.381	On Peak Load
03/08/2025 20:00	14.134	198.789	39.877	22.664	0.008	11.946	11.946	On Peak Load
03/08/2025 21:00	14.095	195.827	39.372	22.543	0.010	13.288	13.288	On Peak Load
03/08/2025 22:00	14.095	192.125	39.140	23.690	0.012	14.249	14.249	On Peak Load
03/08/2025 23:00	14.602	92091.789	18.616	37.572	0.014	15.803	15.803	Off Peak Load
04/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
04/08/2025 09:00	14.365	117098.367	20.937	24.534	0.020	9.980	9.980	Off Peak Load
04/08/2025 10:00	14.329	210.834	37.914	22.641	0.006	8.257	8.257	On Peak Load
04/08/2025 11:00	14.176	207.047	38.219	24.172	0.006	8.803	8.803	On Peak Load
04/08/2025 12:00	14.159	205.876	37.226	23.654	0.007	7.983	7.983	On Peak Load
04/08/2025 13:00	14.175	130.592	24.823	20.910	0.017	7.910	7.910	Off Peak Load
04/08/2025 14:00	14.184	203.064	38.819	24.531	0.008	8.259	8.259	On Peak Load
04/08/2025 15:00	14.175	183.355	37.584	23.369	0.008	9.444	9.444	On Peak Load
04/08/2025 16:00	14.174	208.093	39.554	22.903	0.009	7.740	7.740	On Peak Load
04/08/2025 17:00	14.169	197.974	39.844	24.727	0.009	9.078	9.078	On Peak Load
04/08/2025 18:00	14.164	197.676	40.756	25.796	0.010	10.883	10.883	On Peak Load
04/08/2025 19:00	14.166	201.317	40.260	26.184	0.012	13.390	13.390	On Peak Load
04/08/2025 20:00	14.125	177.281	38.983	23.279	0.013	14.673	14.673	On Peak Load

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG12  
11Aug25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GT1G11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust @7%O2	HRSG1 MW	
04/08/2025 21:00	14.205	194.157	40.386	22.628	0.015	13.102	13.102	On Peak Load
04/08/2025 22:00	14.084	190.984	40.499	22.067	0.016	12.037	12.037	On Peak Load
04/08/2025 23:00	14.108	200.190	40.997	24.468	0.018	13.502	13.502	On Peak Load
05/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block
05/08/2025 09:00	14.294	133.394	27.243	43.435	0.020	11.793	11.793	Off Peak Load
05/08/2025 10:00	14.174	223.482	39.864	24.943	0.012	9.190	9.190	On Peak Load
05/08/2025 11:00	14.170	220.229	38.908	21.969	0.009	8.510	8.510	On Peak Load
05/08/2025 12:00	14.103	204.641	37.593	23.698	0.009	8.163	8.163	On Peak Load
05/08/2025 13:00	14.416	127.750	24.418	26.196	0.010	8.727	8.727	Off Peak Load
05/08/2025 14:00	14.240	231.666	40.813	22.918	0.010	7.8		

Site Name: GRLL2  
Stack Name: HRS012  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT1/G1 LOAD	HRSG1 NO <sub>x</sub> (7%O <sub>2</sub> )	HRSG1 SO <sub>x</sub> (7%O <sub>2</sub> )	HRSG1 Durt (7%O <sub>2</sub> )	
				ppm	mg/m3	mg/m3	
08/08/2025 18:00	14.197	194.560	42.089	23.973	0.011	11.470	On Peak Load
08/08/2025 19:00	14.186	195.182	43.485	21.339	0.011	15.323	On Peak Load
08/08/2025 20:00	14.153	171.459	40.264	23.189	0.011	12.834	On Peak Load
08/08/2025 21:00	14.167	178.037	40.584	23.043	0.011	20.008	On Peak Load
08/08/2025 22:00	14.147	175.195	39.704	23.374	0.012	12.723	On Peak Load
08/08/2025 23:00	14.185	181.750	42.514	24.889	0.012	11.875	On Peak Load
09/08/2025 00:00	14.180	217.565	45.821	28.474	0.012	13.263	Off Peak Load GT11 SD Half Block
09/08/2025 01:00	14.189	188.280	43.150	24.632	0.012	16.306	Off Peak Load GT11 SD Half Block
09/08/2025 02:00	14.164	193.923	43.259	24.506	0.012	13.194	Off Peak Load GT11 SD Half Block
09/08/2025 03:00	14.164	189.764	43.183	24.287	0.012	10.683	Off Peak Load GT11 SD Half Block
09/08/2025 04:00	14.163	189.381	43.248	24.341	0.012	10.681	Off Peak Load GT11 SD Half Block
09/08/2025 05:00	14.163	192.956	43.248	23.776	0.011	9.673	Off Peak Load GT11 SD Half Block
09/08/2025 06:00	14.154	189.149	42.991	24.131	0.011	8.897	Off Peak Load GT11 SD Half Block
09/08/2025 07:00	14.145	190.917	43.288	24.390	0.011	8.125	Off Peak Load GT11 SD Half Block
09/08/2025 08:00	14.157	197.635	43.206	24.060	0.011	8.080	Off Peak Load GT11 SD Half Block
09/08/2025 09:00	14.105	222.796	45.125	28.917	0.011	9.186	Off Peak Load
09/08/2025 10:00	14.147	168.110	38.902	21.588	0.011	8.715	On Peak Load
09/08/2025 11:00	14.192	192.248	40.603	22.221	0.011	8.385	On Peak Load
09/08/2025 12:00	14.099	156.339	39.533	23.917	0.011	9.751	On Peak Load
09/08/2025 13:00	14.179	61.717	23.750	31.913	0.011	16.068	On Peak Load
09/08/2025 14:00	14.074	151.204	38.997	20.517	0.011	13.183	On Peak Load
09/08/2025 15:00	14.064	160.391	39.998	21.043	0.011	14.983	On Peak Load
09/08/2025 16:00	14.084	152.165	38.392	21.871	0.011	8.748	On Peak Load
09/08/2025 17:00	14.066	149.123	37.510	21.360	0.011	10.669	On Peak Load
09/08/2025 18:00	14.069	146.402	38.128	21.907	0.011	12.686	On Peak Load
09/08/2025 19:00	14.058	157.343	38.825	22.056	0.011	13.470	On Peak Load
09/08/2025 20:00	14.073	158.361	39.178	21.818	0.011	13.348	On Peak Load
09/08/2025 21:00	14.070	161.776	39.051	21.402	0.011	11.268	On Peak Load
09/08/2025 22:00	14.043	155.950	38.622	22.019	0.011	8.181	On Peak Load
09/08/2025 23:00	14.059	154.566	38.856	21.809	0.010	8.060	On Peak Load
10/08/2025 00:00	14.478	84.261	26.475	41.269	0.010	8.938	Off Peak Load
10/08/2025 01:00	13.936	122.487	34.159	18.554	0.010	8.935	Off Peak Load
10/08/2025 02:00	13.973	123.073	33.215	17.727	0.009	9.876	Off Peak Load
10/08/2025 03:00	13.987	125.383	33.937	19.331	0.009	13.054	Off Peak Load
10/08/2025 04:00	13.969	110.300	32.754	16.208	0.008	9.320	Off Peak Load
10/08/2025 05:00	13.974	112.427	34.162	18.244	0.008	10.519	Off Peak Load
10/08/2025 06:00	13.919	113.006	33.646	16.687	0.007	12.837	Off Peak Load
10/08/2025 07:00	13.991	105.664	32.525	19.695	0.007	10.425	Off Peak Load
10/08/2025 08:00	14.119	95.576	28.807	22.174	0.006	9.837	Off Peak Load
10/08/2025 09:00	14.112	97.257	29.365	24.103	0.006	9.876	Off Peak Load
10/08/2025 10:00	14.244	101.936	29.434	25.663	0.007	7.865	Off Peak Load
10/08/2025 11:00	14.170	107.237	30.684	23.219	0.007	7.040	Off Peak Load
10/08/2025 12:00	14.252	101.651	29.604	25.841	0.008	7.166	Off Peak Load
10/08/2025 13:00	14.275	99.272	28.830	26.117	0.008	6.876	Off Peak Load
10/08/2025 14:00	14.293	101.417	29.002	26.216	0.008	6.807	Off Peak Load
10/08/2025 15:00	14.281	102.294	29.787	25.608	0.009	6.757	Off Peak Load
10/08/2025 16:00	14.297	97.472	28.670	26.052	0.009	6.551	Off Peak Load
10/08/2025 17:00	14.235	100.510	30.144	23.090	0.009	6.717	Off Peak Load
10/08/2025 18:00	14.167	107.299	31.399	16.709	0.009	7.964	Off Peak Load
10/08/2025 19:00	14.240	214.303	44.859	25.972	0.008	10.665	On Peak Load
10/08/2025 20:00	14.204	199.923	44.979	28.933	0.008	12.752	On Peak Load
10/08/2025 21:00	14.195	210.121	45.139	27.307	0.008	11.515	On Peak Load
10/08/2025 22:00	14.186	216.794	45.127	29.149	0.008	11.372	On Peak Load
10/08/2025 23:00	14.174	216.356	45.327	27.786	0.007	12.031	On Peak Load
11/08/2025 00:00	14.081	114.448	30.580	22.441	0.007	8.933	Off Peak Load
11/08/2025 01:00	14.100	108.759	31.073	19.326	0.007	10.335	Off Peak Load
11/08/2025 02:00	14.053	110.902	32.070	20.549	0.008	9.164	Off Peak Load
11/08/2025 03:00	14.142	104.052	30.778	24.187	0.008	9.194	Off Peak Load
11/08/2025 04:00	14.097	101.727	30.493	26.397	0.008	10.013	Off Peak Load
11/08/2025 05:00	14.076	100.808	32.253	20.175	0.008	8.097	Off Peak Load
11/08/2025 06:00	14.085	109.060	31.618	21.712	0.008	8.086	Off Peak Load
11/08/2025 07:00	14.148	108.541	30.922	24.109	0.009	8.031	Off Peak Load
11/08/2025 08:00	14.146	110.545	29.896	24.340	0.009	8.094	Off Peak Load
11/08/2025 09:00	14.350	90.388	24.786	24.846	0.009	7.623	Off Peak Load
11/08/2025 10:00	14.127	164.265	37.235	22.261	0.010	7.363	On Peak Load
11/08/2025 11:00	14.167	179.995	38.939	22.880	0.010	7.974	On Peak Load
11/08/2025 12:00	14.064	150.523	37.044	21.414	0.011	12.287	On Peak Load
11/08/2025 13:00	14.329	95.601	25.730	23.506	0.011	9.417	On Peak Load
11/08/2025 14:00	14.137	171.645	40.042	22.547	0.012	11.631	On Peak Load
11/08/2025 15:00	14.154	178.777	40.687	22.963	0.012	13.313	On Peak Load
11/08/2025 16:00	14.140	171.299	39.500	22.553	0.013	10.631	On Peak Load
11/08/2025 17:00	14.144	162.797	38.030	22.216	0.013	9.465	On Peak Load
11/08/2025 18:00	14.136	163.352	39.031	20.478	0.012	10.416	On Peak Load
11/08/2025 19:00	14.165	155.938	38.917	22.412	0.012	14.498	On Peak Load
11/08/2025 20:00	14.160	163.975	38.551	22.686	0.012	10.614	On Peak Load
11/08/2025 21:00	14.142	167.628	39.406	22.931	0.012	13.054	On Peak Load
11/08/2025 22:00	14.132	166.491	39.446	22.142	0.012	13.567	On Peak Load
11/08/2025 23:00	14.147	162.642	38.978	23.198	0.012	13.608	On Peak Load
12/08/2025 00:00	14.137	179.059	26.085	27.073	0.012	12.472	On Peak Load
12/08/2025 01:00	14.043	126.935	34.297	20.847	0.012	12.205	On Peak Load
12/08/2025 02:00	14.021	130.539	34.973	20.275	0.012	9.499	Off Peak Load
12/08/2025 03:00	14.024	124.338	34.129	20.989	0.012	12.950	Off Peak Load
12/08/2025 04:00	14.024	115.258	33.396	21.836	0.012	11.709	Off Peak Load
12/08/2025 05:00	14.035	128.240	34.943	20.413	0.012	12.296	Off Peak Load
12/08/2025 06:00	14.018	112.423	32.494	17.941	0.012	11.921	Off Peak Load
12/08/2025 07:00	14.078	131.453	31.931	19.391	0.011	10.416	Off Peak Load
12/08/2025 08:00	14.217	96.085	27.791	24.934	0.012	10.797	Off Peak Load
12/08/2025 09:00	14.212	104.552	28.983	24.417	0.012	9.768	Off Peak Load
12/08/2025 10:00	14.287	95.585	26.029	21.248	0.012	9.369	Off Peak Load
12/08/2025 11:00	14.186	108.881	28.927	24.683	0.012	8.482	Off Peak Load
12/08/2025 12:00	14.222	102.679	27.211	21.185	0.012	8.411	Off Peak Load
12/08/2025 13:00	14.338	96.445	25.793	20.834	0.012	8.635	Off Peak Load
12/08/2025 14:00	14.248	96.059	27.690	21.325	0.012	8.388	Off Peak Load

Site Name: GRLL2  
Stack Name: HRS012  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	Q2	FLOW @1 ATM	GT1/G1 LOAD	HRSG1 NO <sub>x</sub> (7%O <sub>2</sub> )	HRSG1 SO <sub>x</sub> (7%O <sub>2</sub> )	HRSG1 Durt (7%O <sub>2</sub> )	
				ppm	mg/m3	mg/m3	
12/08/2025 15:00	14.287	86.622	26.595	21.614	0.012	8.840	Off Peak Load
12/08/2025 16:00	14.227	90.237	27.307	22.945	0.011	8.563	Off Peak Load
12/08/2025 17:00	14.259	94.091	27.925	22.562	0.011	9.205	Off Peak Load
12/08/2025 18:00	14.384	83.670	25.435	21.411	0.011	10.654	Off Peak Load
12/08/2025 19:00	14.145	168.968	40.263	21.042	0.011	13.212	On Peak Load
12/08/2025 20:00	14.120	161.999	39.706	21.528	0.011	17.123	On Peak Load
12/08/2025 21:00	14.090	166.875	40.073	21.757	0.010	20.355	On Peak Load
12/08/2025 22:00	14.106	168.335	40.326	22.305	0.010	7.623	On Peak Load
12/08/2025 23:00	14.055	169.193	39.792	22.643	0.010	10.720	On Peak Load
13/08/2025 00:00	14.135	103.265	29.307	22.608	0.010	10.163	Off Peak Load
13/08/2025 01:00	14.117	104.462	29.546	22.921	0.009	9.846	Off Peak Load
13/08/2025 02:00	14.120	101.480	29.471	23.415	0.009	9.493	Off Peak Load
13/08/2025 03:00	14.145	101.433	29.077	25.456	0.009	9.143	Off Peak Load
13/08/2025 04:00	14.165	101.645	29.000	24.934	0.009	11.929	Off Peak Load
13/08/2025 05:00	14.175	98.561	28.922	25.514	0.008	14.223	Off Peak Load
13/08/2025 06:00	14.181	101.889	29.498	24.838	0.008	19.066	Off Peak Load
13/08/2025 07:00	14.211	101.401	28.843	25.111	0.008	13.355	Off Peak Load
13/08/2025 08:00	14.167	108.009	29.702	24.530	0.008	11.811	Off Peak Load
13/08/2025 09:00	14.332	93.166	25.733	22.259	0.008	9.596	Off Peak Load
13/08/2025 10:00	14.173	175.744	39.031	23.089	0.008	8.505	On Peak Load
13/08/2025 11:00	14.165	169.860	39.235	22.713	0.009	8.267	On Peak Load
13/08/2025 12:00	14.096	142.971	36.840	21.958	0.009	8.885	On Peak Load
13/08/2025 13:00	14.316	76.243	25.460	22.905	0.009	14.465	Off Peak Load
13/08/2025 14:00	14.083	151.990	39.361	21.247	0.009	13.442	On Peak Load
13/08/2025 15:00	14.113	163.278					

Site Name: GRILL2  
Stack Name: HRS012  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 DUST@7%O2		
				ppm	ppm	mg/m3		
16/08/2025 13:00	14.432	39.957	24.080	38.923	0.011	1.511	Off Peak Load	
16/08/2025 14:00	14.214	174.156	40.428	29.031	0.010	2.155	On Peak Load	
16/08/2025 15:00	14.220	180.145	40.081	29.473	0.010	2.233	On Peak Load	
16/08/2025 16:00	14.188	174.252	40.691	28.749	0.010	3.469	On Peak Load	
16/08/2025 17:00	14.196	168.097	40.369	28.577	0.010	4.499	On Peak Load	
16/08/2025 18:00	14.163	169.864	40.510	27.484	0.009	5.904	On Peak Load	
16/08/2025 19:00	14.112	161.506	40.236	26.092	0.009	12.902	On Peak Load	
16/08/2025 20:00	14.133	160.485	40.179	26.501	0.009	17.024	On Peak Load	
16/08/2025 21:00	14.136	166.017	40.227	26.694	0.009	10.462	On Peak Load	
16/08/2025 22:00	14.072	172.853	40.820	26.494	0.009	5.002	On Peak Load	
16/08/2025 23:00	14.120	167244.141	40.281	27.483	0.009	15.288	On Peak Load	
17/08/2025 00:00	14.212	91714.641	26.991	30.603	0.009	5.533	Off Peak Load	
17/08/2025 01:00	14.026	135920.109	35.732	26.643	0.009	6.615	Off Peak Load	
17/08/2025 02:00	14.015	129911.313	35.898	26.519	0.009	7.847	Off Peak Load	
17/08/2025 03:00	13.979	121739.148	34.783	25.375	0.009	5.491	Off Peak Load	
17/08/2025 04:00	13.977	116515.938	34.705	25.732	0.009	11.813	Off Peak Load	
17/08/2025 05:00	13.954	119269.461	34.685	21.812	0.010	8.744	Off Peak Load	
17/08/2025 06:00	13.934	110882.781	34.201	23.663	0.010	16.719	Off Peak Load	
17/08/2025 07:00	13.947	109631.242	32.686	23.973	0.010	17.381	Off Peak Load	
17/08/2025 08:00	14.052	97330.372	30.416	28.873	0.011	5.158	Off Peak Load	
17/08/2025 09:00	14.059	110887.641	31.152	23.896	0.011	2.074	Off Peak Load	
17/08/2025 10:00	14.011	114.940	31.796	22.448	0.011	3.794	Off Peak Load	
17/08/2025 11:00	14.072	111.115	31.130	26.324	0.012	9.654	Off Peak Load	
17/08/2025 12:00	14.138	113.372	31.105	23.663	0.012	1.727	Off Peak Load	
17/08/2025 13:00	14.134	108.956	30.893	24.684	0.012	1.351	Off Peak Load	
17/08/2025 14:00	14.151	106.015	31.086	23.896	0.012	1.217	Off Peak Load	
17/08/2025 15:00	14.131	107.292	30.537	23.729	0.012	2.163	Off Peak Load	
17/08/2025 16:00	14.080	114.516	31.379	22.596	0.012	1.728	Off Peak Load	
17/08/2025 17:00	14.141	107.179	31.975	24.590	0.011	1.034	Off Peak Load	
17/08/2025 18:00	14.223	101.405	29.911	30.526	0.011	2.462	Off Peak Load	
17/08/2025 19:00	14.134	161.320	38.992	27.386	0.011	2.608	On Peak Load	
17/08/2025 20:00	14.114	154.851	38.423	27.118	0.011	2.675	On Peak Load	
17/08/2025 21:00	14.137	169.678	39.678	25.881	0.011	3.929	On Peak Load	
17/08/2025 22:00	14.112	160.022	38.785	27.227	0.013	2.229	On Peak Load	
17/08/2025 23:00	14.034	128.320	34.346	27.698	0.017	3.670	On Peak Load	
18/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
18/08/2025 10:00	14.166	167.540	37.919	28.144	0.006	2.208	On Peak Load	
18/08/2025 11:00	14.203	167.851	39.043	29.706	0.007	1.354	On Peak Load	
18/08/2025 12:00	14.203	171.052	38.846	29.379	0.007	1.807	On Peak Load	
18/08/2025 13:00	14.412	83.485	24.268	33.607	0.008	1.050	Off Peak Load	
18/08/2025 14:00	14.255	159.533	38.481	29.140	0.008	0.784	On Peak Load	
18/08/2025 15:00	14.185	169.653	39.513	28.012	0.009	2.184	On Peak Load	
18/08/2025 16:00	14.213	177.735	39.991	28.121	0.009	1.584	On Peak Load	
18/08/2025 17:00	14.163	177.889	39.923	27.646	0.010	3.458	On Peak Load	
18/08/2025 18:00	14.167	163.666	39.227	26.706	0.010	5.309	On Peak Load	
18/08/2025 19:00	14.128	151.595	40.132	28.821	0.011	6.413	On Peak Load	
18/08/2025 20:00	14.106	141.266	38.684	28.544	0.011	2.208	On Peak Load	
18/08/2025 21:00	14.106	158.266	39.765	28.033	0.012	17.303	On Peak Load	
18/08/2025 22:00	14.057	151.181	39.665	27.706	0.013	7.287	On Peak Load	
18/08/2025 23:00	14.048	92.532	27.436	25.349	0.013	9.127	Off Peak Load	
19/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
19/08/2025 10:00	14.133	175.503	38.460	26.048	0.012	3.144	On Peak Load	
19/08/2025 11:00	14.155	164.442	38.547	27.836	0.012	1.842	On Peak Load	
19/08/2025 12:00	14.203	161.724	38.076	27.004	0.011	1.765	On Peak Load	
19/08/2025 13:00	14.266	177.451	39.876	25.876	0.011	2.665	On Peak Load	
19/08/2025 14:00	14.134	169.455	39.429	26.426	0.010	3.976	On Peak Load	
19/08/2025 15:00	14.157	179.828	39.755	27.100	0.010	3.419	On Peak Load	
19/08/2025 16:00	14.158	178.430	39.505	26.604	0.009	2.231	On Peak Load	
19/08/2025 17:00	14.201	178.506	39.824	27.915	0.009	2.010	On Peak Load	
19/08/2025 18:00	14.169	177.570	39.942	27.778	0.009	3.159	On Peak Load	
19/08/2025 19:00	14.188	171.918	39.681	27.104	0.009	2.673	On Peak Load	
19/08/2025 20:00	14.166	170.007	39.506	28.902	0.010	2.306	On Peak Load	
19/08/2025 21:00	14.117	178.395	40.053	27.339	0.010	2.188	On Peak Load	
19/08/2025 22:00	14.094	164.695	38.779	25.304	0.010	1.578	On Peak Load	
19/08/2025 23:00	14.097	171742.766	40.133	26.383	0.011	1.308	On Peak Load	
20/08/2025 00:00	14.160	221457.016	45.725	32.550	0.011	1.992	Off Peak Load GT11 SD Half Block	
20/08/2025 01:00	14.171	195190.578	43.286	29.386	0.011	2.803	Off Peak Load GT11 SD Half Block	
20/08/2025 02:00	14.114	197246.031	43.335	28.439	0.011	3.439	Off Peak Load GT11 SD Half Block	
20/08/2025 03:00	14.109	202056.859	43.422	28.260	0.011	4.554	Off Peak Load GT11 SD Half Block	
20/08/2025 04:00	14.116	199116.938	43.130	28.092	0.011	4.672	Off Peak Load GT11 SD Half Block	
20/08/2025 05:00	14.125	195268.031	43.378	27.952	0.011	4.366	Off Peak Load GT11 SD Half Block	
20/08/2025 06:00	14.136	192208.203	43.459	27.614	0.010	4.452	Off Peak Load GT11 SD Half Block	
20/08/2025 07:00	14.147	185576.500	43.142	27.872	0.010	3.054	Off Peak Load GT11 SD Half Block	
20/08/2025 08:00	14.159	187114.641	43.372	28.636	0.010	2.514	Off Peak Load GT11 SD Half Block	
20/08/2025 09:00	14.167	212678.656	45.441	32.772	0.010	2.021	Off Peak Load	

Site Name: GRILL2  
Stack Name: HRS012  
Periodically: 11Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 DUST@7%O2		
				ppm	ppm	mg/m3		
20/08/2025 10:00	14.169	160.880	37.595	27.783	0.010	1.061	On Peak Load	
20/08/2025 11:00	14.205	158.090	37.496	27.970	0.010	1.097	On Peak Load	
20/08/2025 12:00	14.127	148.075	36.430	27.385	0.010	1.047	On Peak Load	
20/08/2025 13:00	14.345	91.869	25.675	26.817	0.010	0.997	Off Peak Load	
20/08/2025 14:00	14.181	167.953	38.590	26.784	0.010	1.780	On Peak Load	
20/08/2025 15:00	14.206	347.146	40.452	28.814	0.010	1.840	On Peak Load	
20/08/2025 16:00	14.194	337.389	39.976	29.183	0.010	2.847	On Peak Load	
20/08/2025 17:00	14.149	318.086	38.234	26.730	0.010	2.566	On Peak Load	
20/08/2025 18:00	14.168	333.003	39.430	26.596	0.011	3.005	On Peak Load	
20/08/2025 19:00	14.164	327.756	40.014	26.842	0.011	4.685	On Peak Load	
20/08/2025 20:00	14.114	311.702	38.412	26.897	0.012	6.899	On Peak Load	
20/08/2025 21:00	14.134	316.045	38.766	25.918	0.012	7.132	On Peak Load	
20/08/2025 22:00	14.079	316.458	38.865	26.048	0.013	4.291	On Peak Load	
20/08/2025 23:00	14.120	324.706	39.307	26.253	0.013	3.953	On Peak Load	
21/08/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
21/08/2025 10:00	14.147	323.979	38.804	26.843	0.014	2.068	On Peak Load	
21/08/2025 11:00	14.183	327.529	38.806	27.488	0.014	2.200	On Peak Load	
21/08/2025 12:00	14.122	315.160	37.794	25.929	0.013	1.539	On Peak Load	
21/08/2025 13:00	14.352	252.046	24.246	30.446	0.013	5.332	Off Peak Load	
21/08/2025 14:00	14.138	339.763	40.788	25.673	0.013	8.674	On Peak Load	
21/08/2025 15:00	14.129	334.619	39.839	25.849	0.012	2.840	On Peak Load	
21/08/2025 16:00	14.115	321.929	41.018	26.				

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG12  
11Aug25 00:00 - 31Aug25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	mg/m3	
24/08/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Off Peak Load GT12 SD Half Block	
24/08/2025 19:00	14.094	319.305	38.327	31.692	0.647	6.171	On Peak Load	
24/08/2025 20:00	14.090	322.616	38.836	25.561	0.011	5.677	On Peak Load	
24/08/2025 21:00	14.067	310.758	37.357	26.366	0.011	8.392	On Peak Load	
24/08/2025 22:00	14.099	325.674	39.371	26.364	0.010	18.038	On Peak Load	
24/08/2025 23:00	14.061	323.839	39.664	26.689	0.010	8.385	On Peak Load	
25/08/2025 00:00	14.019	277.791	31.720	21.325	0.010	6.287	Off Peak Load	
25/08/2025 01:00	14.004	287.791	33.421	23.157	0.010	3.976	Off Peak Load	
25/08/2025 02:00	14.004	289.489	33.868	23.285	0.009	12.418	Off Peak Load	
25/08/2025 03:00	14.022	287.782	32.848	22.130	0.009	9.474	Off Peak Load	
25/08/2025 04:00	13.986	266.133	32.179	22.503	0.009	6.668	Off Peak Load	
25/08/2025 05:00	14.004	261.973	32.153	21.844	0.010	11.551	Off Peak Load	
25/08/2025 06:00	13.976	274.364	33.064	22.068	0.010	10.293	Off Peak Load	
25/08/2025 07:00	14.045	265.574	30.303	22.187	0.010	11.239	Off Peak Load	
25/08/2025 08:00	14.078	265.303	31.043	9.646	0.011	9.646	Off Peak Load	
25/08/2025 09:00	14.385	245.923	24.344	37.630	0.011	3.146	On Peak Load	
25/08/2025 10:00	14.120	324.199	38.363	25.319	0.011	3.533	On Peak Load	
25/08/2025 11:00	14.124	317.296	37.198	26.022	0.011	2.804	On Peak Load	
25/08/2025 12:00	14.043	295.158	34.835	25.409	0.011	2.073	On Peak Load	
25/08/2025 13:00	14.436	249.635	23.266	47.601	0.011	3.024	Off Peak Load	
25/08/2025 14:00	14.100	318.561	37.137	23.073	0.011	3.511	On Peak Load	
25/08/2025 15:00	14.139	323.613	37.452	25.969	0.011	3.712	On Peak Load	
25/08/2025 16:00	14.121	323.643	37.513	25.872	0.011	2.905	On Peak Load	
25/08/2025 17:00	14.141	313.521	37.114	24.773	0.011	3.498	On Peak Load	
25/08/2025 18:00	14.114	309.278	37.331	25.184	0.010	6.693	On Peak Load	
25/08/2025 19:00	14.102	307.914	37.633	24.904	0.010	8.972	On Peak Load	
25/08/2025 20:00	14.107	313.697	38.147	24.879	0.010	18.075	On Peak Load	
25/08/2025 21:00	14.105	317.304	37.672	26.433	0.010	8.239	On Peak Load	
25/08/2025 22:00	14.086	316.872	37.570	25.691	0.010	7.225	On Peak Load	
25/08/2025 23:00	14.135	313.132	40.348	26.780	0.010	26.780	On Peak Load	
26/08/2025 00:00	14.317	247.530	25.734	28.466	0.010	7.670	Off Peak Load	
26/08/2025 01:00	14.023	292.650	34.865	25.015	0.010	6.041	Off Peak Load	
26/08/2025 02:00	14.054	301.588	35.200	24.667	0.009	8.676	Off Peak Load	
26/08/2025 03:00	14.003	302.481	35.104	24.895	0.009	9.369	Off Peak Load	
26/08/2025 04:00	14.023	298.817	35.069	24.342	0.010	8.904	Off Peak Load	
26/08/2025 05:00	14.029	295.869	34.713	23.437	0.010	8.507	Off Peak Load	
26/08/2025 06:00	14.020	292.242	35.069	25.540	0.010	7.233	Off Peak Load	
26/08/2025 07:00	14.013	290.136	33.617	24.090	0.010	11.142	Off Peak Load	
26/08/2025 08:00	14.027	281.907	32.264	22.793	0.011	6.744	Off Peak Load	
26/08/2025 09:00	14.438	242.280	23.211	41.073	0.011	7.495	Off Peak Load	
26/08/2025 10:00	14.069	315.264	37.262	23.841	0.011	4.687	On Peak Load	
26/08/2025 11:00	14.067	312.249	35.677	24.897	0.011	3.516	On Peak Load	
26/08/2025 12:00	14.054	302.916	35.497	25.386	0.011	2.642	On Peak Load	
26/08/2025 13:00	14.386	250.025	24.520	31.727	0.011	3.821	Off Peak Load	
26/08/2025 14:00	14.110	322.515	38.004	24.475	0.010	4.495	On Peak Load	
26/08/2025 15:00	14.150	315.068	38.095	25.448	0.010	3.214	On Peak Load	
26/08/2025 16:00	14.105	321.976	38.415	26.076	0.009	4.877	On Peak Load	
26/08/2025 17:00	14.121	312.032	37.533	26.579	0.009	4.761	On Peak Load	
26/08/2025 18:00	14.091	314.744	37.747	26.672	0.008	3.747	On Peak Load	
26/08/2025 19:00	14.147	316.676	37.741	25.929	0.008	8.585	On Peak Load	
26/08/2025 20:00	14.111	308.209	37.176	25.478	0.009	7.284	On Peak Load	
26/08/2025 21:00	14.073	307.323	37.257	26.656	0.009	8.840	On Peak Load	
26/08/2025 22:00	14.079	313.586	37.727	24.579	0.010	4.256	On Peak Load	
26/08/2025 23:00	14.098	326.026	39.396	27.448	0.010	4.888	On Peak Load	
27/08/2025 00:00	14.111	329.846	39.678	27.338	0.010	8.811	On Peak Load	
27/08/2025 01:00	14.011	292.664	34.301	23.801	0.011	3.270	Off Peak Load	
27/08/2025 02:00	14.022	302.674	35.870	23.413	0.012	6.564	Off Peak Load	
27/08/2025 03:00	14.045	304.744	35.918	22.208	0.012	6.609	Off Peak Load	
27/08/2025 04:00	13.992	290.133	34.461	23.217	0.012	10.314	Off Peak Load	
27/08/2025 05:00	14.013	303.721	36.039	22.305	0.012	8.737	Off Peak Load	
27/08/2025 06:00	14.019	286.723	34.279	20.931	0.011	6.894	Off Peak Load	
27/08/2025 07:00	13.964	286.684	36.014	22.012	0.011	8.134	Off Peak Load	
27/08/2025 08:00	14.073	281.457	31.458	16.294	0.011	4.597	Off Peak Load	
27/08/2025 09:00	14.383	257.721	24.414	32.854	0.011	4.034	Off Peak Load	
27/08/2025 10:00	14.095	309.040	37.312	21.922	0.011	3.113	On Peak Load	
27/08/2025 11:00	14.085	296.740	35.094	20.367	0.011	3.925	On Peak Load	
27/08/2025 12:00	14.000	286.084	35.312	18.834	0.011	4.595	On Peak Load	
27/08/2025 13:00	14.407	232.655	23.938	32.942	0.011	4.348	Off Peak Load	
27/08/2025 14:00	14.081	313.622	38.874	20.394	0.011	3.398	On Peak Load	
27/08/2025 15:00	14.081	312.885	38.524	21.251	0.011	2.944	On Peak Load	
27/08/2025 16:00	14.121	307.302	37.536	21.218	0.011	2.673	On Peak Load	
27/08/2025 17:00	14.076	299.158	36.625	20.242	0.011	2.340	On Peak Load	
27/08/2025 18:00	14.080	299.836	36.610	18.976	0.011	2.761	On Peak Load	
27/08/2025 19:00	14.065	293.476	36.399	19.750	0.010	5.273	On Peak Load	
27/08/2025 20:00	14.078	298.462	36.696	19.042	0.011	6.640	On Peak Load	
27/08/2025 21:00	14.103	310.450	37.332	19.744	0.010	4.874	On Peak Load	
27/08/2025 22:00	14.105	313.599	37.512	20.570	0.010	5.045	On Peak Load	
27/08/2025 23:00	14.100	317.098	37.823	21.456	0.010	4.354	On Peak Load	
28/08/2025 00:00	14.408	250.767	25.808	41.774	0.010	5.842	Off Peak Load	
28/08/2025 01:00	14.014	302.253	35.728	19.654	0.010	6.054	Off Peak Load	
28/08/2025 02:00	14.018	288.172	34.598	16.914	0.010	8.230	Off Peak Load	
28/08/2025 03:00	13.969	286.628	34.170	19.162	0.009	5.882	Off Peak Load	

Site Name:  
Stack Name:  
Periodically:

GNL12  
HRSG12  
11Aug25 00:00 - 31Aug25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison				Remark
	Q2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	mg/m3	
28/08/2025 04:00	13.974	279.735	33.993	18.920	0.009	4.679	Off Peak Load	
28/08/2025 05:00	13.948	281.299	34.522	16.467	0.009	2.630	Off Peak Load	
28/08/2025 06:00	13.984	298.468	36.138	16.955	0.009	3.169	Off Peak Load	
28/08/2025 07:00	13.999	303.346	36.342	18.855	0.009	5.138	Off Peak Load	
28/08/2025 08:00	14.086	268.261	30.755	22.329	0.009	7.636	Off Peak Load	
28/08/2025 09:00	14.403	235.767	23.623	36.360	0.009	3.885	Off Peak Load	
28/08/2025 10:00	14.093	307.007	36.664	20.111	0.008	1.987	On Peak Load	
28/08/2025 11:00	14.081	297.125	34.927	19.060	0.009	1.726	On Peak Load	
28/08/2025 12:00	14.086	291.251	34.534	19.154	0.009	1.248	On Peak Load	
28/08/2025 13:00	14.633	215.235	20.562	39.322	0.009	1.176	On Peak Load	
28/08/2025 14:00	14.065	286.739	33.906	19.811	0.009	0.900	On Peak Load	
28/08/2025 15:00	14.174	302.349	36.300	21.386	0.009	0.842	On Peak Load	
28/08/2025 16:00	14.172	304.834	36.767	21.071	0.010	1.308	On Peak Load	
28/08/2025 17:00	14.128	308.852	37.336	20.608	0.010	2.924	On Peak Load	
28/08/2025 18:00	14.119	325.143	38.451	19.893	0.010	5.591	On Peak Load	
28/08/2025 19:00	14.110	321.925	38.248	19.609	0.010	5.685	On Peak Load	
28/08/2025 20:00	14.068	316.964	37.936	19.980	0.010	9.496	On Peak Load	
28/08/2025 21:00	14.092	322.603	39.105	20.387	0.010	12.751	On Peak Load	
28/08/2025 22:00	14.052	304.948	38.104	19.983	0.010	8.532	On Peak Load	
28/08/2025 23:00	14.070	314.689	39.713	18.653	0.010	6.496	On Peak Load	
29/08/2025 00:00	14.113	251938.422	27.969	21.842	0.010	5.277	Off Peak Load	
29/08/2025 01:00	13.980	293560.813	36.449	18.454	0.010	6.090	Off Peak Load	
29/08/2025 02:00	13.982	303692.063	37.067	16.830	0.010	6.647	Off Peak Load	
29/08/2025 03:00	13.958	290536.156	35.789	17.673	0.010	7.274		

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Aug/25 00:00 - 31/Aug/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison			Remark
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)	
	%	m3/hr	MW	ppm	ppm	mg/m3	
Maximum	14.63	371.688	48.32	43.44	0.65	23.21	
Avg	14.11	216.580	38.56	24.41	0.61	7.96	
SUM							
STDEV							

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/09/2025 00:00	14.929	264,539	30.352	25.624	0.000	14.344
01/09/2025 01:00	14.878	271,051	32.255	13.749	0.000	12.818
01/09/2025 02:00	14.922	268,360	30.757	20.655	0.000	24.909
01/09/2025 03:00	14.890	272,628	31.865	17.899	0.000	9.601
01/09/2025 04:00	14.909	265,924	30.835	23.605	0.000	6.639
01/09/2025 05:00	14.964	263,873	29.771	29.228	0.000	5.868
01/09/2025 06:00	14.901	268,321	31.181	14.857	0.000	11.280
01/09/2025 07:00	14.880	268,464	31.110	15.161	0.000	8.733
01/09/2025 08:00	14.988	265,462	30.081	26.903	0.000	9.327
01/09/2025 09:00	15.057	259,571	28.925	28.401	0.000	6.321
01/09/2025 10:00	14.936	309,920	35.323	14.402	0.001	4.315
01/09/2025 11:00	14.986	320,550	37.878	16.379	0.001	4.201
01/09/2025 12:00	15.006	301,300	35.955	16.016	0.002	2.483
01/09/2025 13:00	15.347	232,078	22.093	42.578	0.002	4.040
01/09/2025 14:00	14.986	319,892	38.023	16.702	0.003	4.479
01/09/2025 15:00	15.058	333,993	39.740	17.595	0.003	5.469
01/09/2025 16:00	15.025	329,409	39.299	17.965	0.004	5.398
01/09/2025 17:00	14.969	318,190	38.156	17.574	0.004	7.136
01/09/2025 18:00	14.949	313,971	37.653	16.889	0.004	5.385
01/09/2025 19:00	14.941	312,595	37.704	15.035	0.003	5.326
01/09/2025 20:00	14.907	317,725	38.164	16.454	0.003	9.937
01/09/2025 21:00	14.935	317,245	37.949	16.147	0.002	11.420
01/09/2025 22:00	14.943	315,324	37.923	15.489	0.001	11.879
01/09/2025 23:00	14.941	329,519	39.811	17.091	0.001	17.911
02/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/09/2025 10:00	14.989	337,975	40.515	17.696	0.000	6.994
02/09/2025 11:00	15.030	328,457	39.307	18.167	0.000	4.637
02/09/2025 12:00	14.938	317,417	38.130	17.891	0.000	9.555
02/09/2025 13:00	15.148	245,098	25.242	39.184	0.000	7.995
02/09/2025 14:00	14.958	329,911	40.516	16.814	0.000	8.586
02/09/2025 15:00	14.982	331,565	40.420	16.764	0.000	6.534
02/09/2025 16:00	14.956	331,958	40.246	16.645	0.000	6.131
02/09/2025 17:00	14.928	327,536	39.628	15.922	0.000	6.806
02/09/2025 18:00	14.923	329,341	39.634	16.230	0.000	4.996
02/09/2025 19:00	14.966	321,549	39.475	15.946	0.000	5.099
02/09/2025 20:00	14.950	322,757	38.860	15.931	0.000	4.427
02/09/2025 21:00	14.958	337,859	41.299	15.160	0.000	8.176
02/09/2025 22:00	14.970	330,957	39.869	15.787	0.000	9.254
02/09/2025 23:00	14.961	343857.125	41.484	16.070	0.000	8.959
03/09/2025 00:00	15.018	346935.250	42.924	17.977	0.000	12.215
03/09/2025 01:00	15.018	353973.563	43.487	17.446	0.000	6.699
03/09/2025 02:00	15.018	354088.031	43.382	17.368	0.000	5.028
03/09/2025 03:00	15.018	352581.719	43.507	17.541	0.000	6.072
03/09/2025 04:00	15.018	352049.063	43.413	17.759	0.001	10.203
03/09/2025 05:00	15.019	352074.875	43.376	18.981	0.001	15.282
03/09/2025 06:00	15.023	346547.656	43.294	17.945	0.001	18.681
03/09/2025 07:00	15.027	350319.188	43.253	19.017	0.001	10.392
03/09/2025 08:00	15.030	348051.969	43.237	18.532	0.002	7.628
03/09/2025 09:00	15.028	330520.563	40.655	17.849	0.002	3.926
03/09/2025 10:00	14.993	319,426	38.355	16.073	0.002	4.948
03/09/2025 11:00	15.028	319,473	37.698	16.898	0.002	6.322
03/09/2025 12:00	14.955	312,833	37.085	16.328	0.001	4.097
03/09/2025 13:00	15.165	247,384	25.504	38.097	0.001	4.267
03/09/2025 14:00	15.004	340,050	40.162	17.734	0.001	6.091
03/09/2025 15:00	15.086	347,873	41.545	19.092	0.001	6.429
03/09/2025 16:00	15.003	342,481	41.528	18.542	0.001	3.908
03/09/2025 17:00	14.975	335,022	40.360	16.138	0.001	3.789
03/09/2025 18:00	14.971	330,835	40.372	16.665	0.001	3.603
03/09/2025 19:00	14.968	349,927	42.090	16.497	0.001	4.170
03/09/2025 20:00	14.953	325,544	39.663	16.464	0.001	3.584
03/09/2025 21:00	15.002	353,893	42.695	15.812	0.001	14.230

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/09/2025 22:00	14.945	324,298	39.511	16.679	0.001	10.914
03/09/2025 23:00	14.990	331853.063	41.173	16.714	0.001	9.444
04/09/2025 00:00	14.967	368612.438	45.715	19.595	0.001	14.697
04/09/2025 01:00	15.016	348126.281	43.444	18.180	0.001	18.681
04/09/2025 02:00	15.013	351042.438	43.409	16.735	0.002	23.975
04/09/2025 03:00	15.011	352085.563	43.470	17.347	0.002	19.676
04/09/2025 04:00	15.008	350847.969	43.325	17.567	0.002	18.681
04/09/2025 05:00	15.005	348842.094	43.380	16.977	0.002	10.392
04/09/2025 06:00	15.002	350545.813	43.456	17.168	0.002	19.337
04/09/2025 07:00	14.999	349085.500	43.314	17.484	0.003	14.422
04/09/2025 08:00	14.996	352042.500	43.169	16.890	0.003	11.928
04/09/2025 09:00	14.882	322074.625	40.073	16.112	0.003	7.202
04/09/2025 10:00	14.985	342,342	40.549	15.472	0.002	5.145
04/09/2025 11:00	15.005	325,189	38.570	16.506	0.002	4.182
04/09/2025 12:00	15.003	311,426	37.224	15.694	0.002	3.233
04/09/2025 13:00	15.150	249,749	25.978	34.831	0.001	5.547
04/09/2025 14:00	14.989	343,952	41.255	15.578	0.001	10.074
04/09/2025 15:00	14.978	335,072	40.403	15.952	0.000	10.290
04/09/2025 16:00	14.951	340,531	40.970	17.225	0.000	13.652
04/09/2025 17:00	14.935	333,697	40.173	16.354	0.000	11.369
04/09/2025 18:00	14.911	325,284	39.523	15.640	0.000	5.122
04/09/2025 19:00	14.947	325,505	39.665	15.600	0.000	6.665
04/09/2025 20:00	14.926	333,743	40.554	15.357	0.001	9.807
04/09/2025 21:00	14.934	327,597	39.817	16.044	0.001	7.519
04/09/2025 22:00	14.925	326,943	39.336	15.712	0.002	5.250
04/09/2025 23:00	14.969	332,150	40.244	15.795	0.002	9.182
05/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
05/09/2025 10:00	14.975	333679.625	39.815	17.126	0.004	5.009
05/09/2025 11:00	15.009	327410.781	39.226	16.392	0.003	2.257
05/09/2025 12:00	14.949	318037.688	38.462	16.011	0.003	2.729
05/09/2025 13:00	15.036	250826.266	26.603	32.292	0.002	7.427
05/09/2025 14:00	14.966	337611.188	41.034	16.870	0.002	18.025
05/09/2025 15:00	14.955	322632.594	39.534	17.169	0.002	15.904
05/09/2025 16:00	14.971	331716.250	39.991	18.418	0.001	7.760
05/09/2025 17:00	15.008	331703.938	39.978	17.834	0.001	6.152
05/09/2025 18:00	14.987	329550.781	39.663	17.907	0.001	8.597
05/09/2025 19:00	15.001	326,801	39.819	17.374	0.001	10.542
05/09/2025 20:00	14.991	342,555	41.281	17.964	0.001	11.101
05/09/2025 21:00	14.977	333,733	40.708	17.096	0.002	8.399
05/09/2025 22:00	14.967	332,080	40.319	16.806	0.002	12.502
05/09/2025 23:00	14.932	332477.156	40.867	16.817	0.002	12.039
06/09/2025 00:00	15.022	364165.938	44.754	20.191	0.002	8.178
06/09/2025 01:00	15.024	354301.125	43.590	17.370	0.002	5.693
06/09/2025 02:00	15.038	350804.750	43.308	18.072	0.002	10.075
06/09/2025 03:00	15.023	351726.219	43.454	18.226	0.001	17.303
06/09/2025 04:00	15.009	350950.594	43.454	16.934	0.001	7.492
06/09/2025 05:00	15.013	349133.813	43.536	16.831	0.001	7.022
06/09/2025 06:00	15.016	347251.469	43.294	16.741	0.000	9.934
06/09/2025 07:00	15.020	352103.125	43.256	17.445	0.000	8.919
06/09/2025 08:00	15.025	353011.250	43.332	17.892	0.000	5.542
06/09/2025 09:00	14.956	332062.313	40.582	15.438	0.000	7.008
06/09/2025 10:00	14.984	337,013	40.962	16.341	0.000	3.546
06/09/2025 11:00	15.018	341,694	41.224	15.836	0.000	2.576
06/09/2025 12:00	15.010	333,732	40.114	15.967	0.001	1.497
06/09/2025 13:00	15.035	254,758	28.492	31.627	0.001	1.111
06/09/2025 14:00	14.998	357,847	43.880	17.196	0.002	12.425
06/09/2025 15:00	14.991	346,053	41.723	16.353	0.002	11.575
06/09/2025 16:00	15.017	353,330	42.440	16.304	0.003	15.550
06/09/2025 17:00	14.996	339,686	41.263	16.136	0.002	7.982
06/09/2025 18:00	14.963	337,751	40.686	16.876	0.001	9.994
06/09/2025 19:00	14.995	333,620	40.438	16.807	0.000	14.703

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/09/2025 20:00	15.006	333,900	40.581	16.642	0.000	13.597
06/09/2025 21:00	14.951	325,659	39.678	16.853	0.001	14.696
06/09/2025 22:00	14.983	334510.344	40.571	16.963	0.003	12.208
06/09/2025 23:00	14.979	336693.750	41.225	16.812	0.004	12.197
07/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/09/2025 19:00	14.945	341,745	40.510	17.235	0.004	14.860
07/09/2025 20:00	14.959	323,574	39.263	18.055	0.004	15.382
07/09/2025 21:00	15.001	347,375	42.174	17.920	0.003	14.183
07/09/2025 22:00	14.985	331,188	40.486	17.114	0.003	12.958
07/09/2025 23:00	14.804	272,971	32.798	14.378	0.003	11.575
08/09/2025 00:00	14.899	271,347	30.712	15.792	0.003	15.550
08/09/2025 01:00	14.966	254,905	27.530	32.792	0.003	7.982
08/09/2025 02:00	14.984	255,610	28.569	33.364	0.003	9.994
08/09/2025 03:00	14.904	268,247	31.263	18.640	0.003	19.480
08/09/2025 04:00	15.027	253,881	28.426	35.770	0.002	9.195
08/09/2025 05:00	14.913	266,177	29.972	25.859	0.001	9.047
08/09/2025 06:00	14.882	262,798	30.338	26.709	0.001	9.085
08/09/2025 07:00	14.823	269,842	31.671	13.825	0.000	20.732
08/09/2025 08:00	14.860	270,533	31.729	15.166	0.000	16.497
08/09/2025 09:00	14.823	280,073	33.392	13.254	0.000	6.681
08/09/2025 10:00	14.942	339,457	40.751	16.085	0.000	8.855
08/09/2025 11:00	14.985	334,002	40.824	17.156	0.000	8.727
08/09/2025 12:00	14.930	323,907	39.976	16.650	0.000	7.802
08/09/2025 13:00	15.132	245,475	25.267	38.946	0.000	7.626
08/09/2025 14:00	14.937	330,897	40.313	15.811	0.000	8.799
08/09/2025 15:00	14.962	332,576	40.527	16.916	0.001	21.251
08/09/2025 16:00	14.928	335,736	40.349	17.502	0.001	20.119
08/09/2025 17:00	14.955	333,702	40.353	17.675	0.002	13.253
08/09/2025 18:00	14.944	327,572	39.597	16.891	0.003	8.002
08/09/2025 19:00	14.935	328,513	40.114	15.994	0.003	7.763
08/09/2025 20:00	14.936	325,568	39.455	15.779	0.002	5.723
08/09/2025 21:00	14.927	328,046	40.183	15.105	0.002	5.094
08/09/2025 22:00	14.954	328,903	40.042	17.651	0.002	7.110
08/09/2025 23:00	14.952	324,627	39.532	15.804	0.002	6.408
09/09/2025 00:00	14.815	288,774	34.845	13.554	0.002	13.622
09/09/2025 01:00	14.892	296,051	35.696	13.890	0.002	15.006
09/09/2025 02:00	14.845	295,650	35.701	13.329	0.002	18.924
09/09/2025 03:00	14.860	295,382	36.069	14.146	0.001	18.970
09/09/2025 04:00	14.867	302,248	36.546	14.172	0.001	13.889
09/09/2025 05:00	14.869	293,223	35.531	14.210	0.000	17.957
09/09/2025 06:00	14.864	297,536	36.408	13.161	0.000	17.456
09/09/2025 07:00	14.837	287,985	35.313	13.694	0.000	11.845
09/09/2025 08:00	14.852	281,579	34.191	14.638	0.000	8.332
09/09/2025 09:00	14.844	292,765	35.224	13.300	0.000	5.094
09/09/2025 10:00	14.895	329,618	39.748	17.381	0.000	7.110
09/09/2025 11:00	14.916	325,573	39.671	17.321	0.000	21.643
09/09/2025 12:00	14.902	319,325	38.850	15.783	0.000	6.358
09/09/2025 13:00	15.109	244,656	25.507	38.316	0.000	14.309
09/09/2025 14:00	14.980	336,929	41.268	16.901	0.000	15.295

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS11_NOx@7%O2	HRS11_SOx@7%O2	HRS11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/09/2025 18:00	14.954	329,648	40.291	17.261	0.000	21.495
09/09/2025 19:00	14.961	329,699	39.886	17.428	0.000	14.262
09/09/2025 20:00	14.973	332,545	40.253	17.248	0.000	12.272
09/09/2025 21:00	14.958	332,433	40.114	17.228	0.000	14.212
09/09/2025 22:00	14.961	329,685	39.809	17.100	0.000	13.682
09/09/2025 23:00	14.971	336,947	40.854	17.431	0.000	14.634
10/09/2025 00:00	14.798	294,779	35.240	14.310	0.000	15.086
10/09/2025 01:00	14.877	300,966	36.703	13.998	0.000	7.763
10/09/2025 02:00	14.856	293,167	36.033	15.476	0.000	5.723
10/09/2025 03:00	14.879	307,824	37.434	16.952	0.000	12.431
10/09/2025 04:00	14.855	300,272	35.957	15.495	0.001	16.910
10/09/2025 05:00	14.876	314,225	38.909	14.125	0.001	22.599
10/09/2025 06:00	14.856	302,947	36.322	15.637	0.001	12.521
10/09/2025 07:00	14.835	291,172	35.135	14.163	0.001	16.936
10/09/2025 08:00	14.866	280,495	33.325	14.169	0.001	9.244
10/09/2025 09:00	14.906	287,947	34.168	15.706	0.002	8.332
10/09/2025 10:00	15.043	330,218	39.334	17.875	0.002	11.196
10/09/2025 11:00	15.032	330,917	39.811	18.067	0.001	6.358
10/09/2025 12:00	15.012	333,770	40.018	17.710	0.001	5.399
10/09/2025 13:00	15.159	247,296	25.896	39.165	0.001	7.074
10/09/2025 14:00	15.004	327,878	39.697	17.918	0.001	6.436
10/09/2025 15:00	15.089	345,829	41.218	19.438	0.000	8.723
10/09/2025 16:00	15.059	343,954	41.286	18.577	0.000	8.063
10/09/2025 17:00	15.035	337,117	40.355	19.933	0.000	6.796
10/09/2025 18:00	15.035	339,994	40.919	19.927	0.000	9.941
10/09/2025 19:00	15.011	334,900	40.683	18.956	0.000	11.877
10/09/2025 20:00	15.031	337,583	41.141	18.916	0.000	13.155
10/09/2025 21:00	15.002	369,025	44.852	22.302	0.001	14.647
10/09/2025 22:00	14.950	308,591	37.202	15.127	0.001	9.134
10/09/2025 23:00	14.970	340,060	40.381	17.753	0.001	10.792
11/09/2025 00:00	14.826	296,869	35.949	14.938	0.001	10.522
11/09/2025 01:00	14.919	312,537	37.087	15.827	0.002	10.129
11/09/2025 02:00	14.871	317,389	38.685	14.907	0.002	9.043
11/09/2025 03:00	14.840	303,188	36.785	14.866	0.002	11.602
11/09/2025 04:00	14.852	290,043	35.287	14.432	0.002	17.557
11/09/2025 05:00	14.825	294,561	35.846	14.762	0.002	17.622
11/09/2025 06:00	14.864	306,708	37.159	15.601	0.002	12.578
11/09/2025 07:00	14.865	300,981	36.537	15.022	0.002	7.524
11/09/2025 08:00	14.841	279,696	33.134	13.386	0.002	5.798
11/09/2025 09:00	14.844	288,396	34.244	12.953	0.002	5.821
11/09/2025 10:00	14.987	345,155	41.282	14.820	0.002	5.963
11/09/2025 11:00	15.021	335,349	39.638	17.139	0.002	5.601
11/09/2025 12:00	15.029	320,394	38.483	17.727	0.002	6.334
11/09/2025 13:00	15.252	244,649	24.968	38.836	0.002	3.904
11/09/2025 14:00	14.999	327,163	38.887	17.037	0.002	4.212
11/09/2025 15:00	15.100	347,378	41.934	18.146	0.002	5.776
11/09/2025 16:00	14.988	337,851	40.876	17.375	0.001	6.461
11/09/2025 17:00	15.096	355,484	42.834	17.092	0.001	4.774
11/09/2025 18:00	15.048	349,950	42.092	17.132	0.001	7.628
11/09/2025 19:00	15.055	340,638	42.069	17.737	0.002	9.705
11/09/2025 20:00	14.993	331,965	40.053	18.147	0.002	9.472
11/09/2025 21:00	15.002	340,988	41.470	17.766	0.002	9.153
11/09/2025 22:00	14.991	332,622	40.887	18.073	0.002	7.563
11/09/2025 23:00	14.991	336,135	41.471	17.809	0.002	5.135
12/09/2025 00:00	14.844	303,056	36.365	13.928	0.003	5.461
12/09/2025 01:00	14.856	295,444	35.509	13.991	0.003	6.672
12/09/2025 02:00	14.936	312,038	37.344	14.534	0.003	5.950
12/09/2025 03:00	14.890	300,314	36.053	14.464	0.003	5.743
12/09/2025 04:00	14.874	292,227	35.009	14.619	0.003	6.155
12/09/2025 05:00	14.930	312,265	37.489	14.813	0.002	5.020
12/09/2025 06:00	14.865	302,030	36.732	15.000	0.002	5.403
12/09/2025 07:00	14.822	300,417	36.182	15.422	0.002	5.530
12/09/2025 08:00	14.856	284,778	34.294	14.273	0.002	6.670
12/09/2025 09:00	14.917	304,838	36.395	15.158	0.002	10.733
12/09/2025 10:00	15.079	356,706	42.683	18.270	0.002	12.486
12/09/2025 11:00	15.034	339,865	41.024	18.214	0.002	6.546
12/09/2025 12:00	15.052	330,963	39.677	17.499	0.002	3.612
12/09/2025 13:00	15.111	254,535	27.174	34.285	0.002	3.754
12/09/2025 14:00	15.061	346,650	41.252	17.165	0.002	2.870
12/09/2025 15:00	15.101	337,539	39.918	18.243	0.001	1.739

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/09/2025 16:00	15.092	362,373	43.522	18.240	0.001	2.461
12/09/2025 17:00	14.991	339,923	41.633	16.068	0.001	11.602
12/09/2025 18:00	15.021	337,822	41.069	16.891	0.001	9.450
12/09/2025 19:00	15.005	337,944	41.111	16.819	0.001	6.633
12/09/2025 20:00	14.988	341,308	41.268	17.649	0.001	7.231
12/09/2025 21:00	14.994	350,276	42.534	17.394	0.001	5.663
12/09/2025 22:00	14.993	338,811	41.654	16.524	0.001	8.030
12/09/2025 23:00	14.977	358,249	42.818	15.909	0.000	5.853
13/09/2025 00:00	14.784	284,680	34.250	14.921	0.000	7.031
13/09/2025 01:00	14.855	302,483	37.099	15.005	0.000	6.384
13/09/2025 02:00	14.838	306,759	36.965	13.848	0.001	8.979
13/09/2025 03:00	14.862	307,699	37.178	13.570	0.001	8.951
13/09/2025 04:00	14.843	295,064	35.561	13.428	0.002	7.393
13/09/2025 05:00	14.858	288,229	34.693	13.676	0.003	6.246
13/09/2025 06:00	14.819	298,901	36.863	15.892	0.003	5.608
13/09/2025 07:00	14.856	294,172	35.491	14.621	0.004	4.229
13/09/2025 08:00	14.867	272,333	31.914	13.275	0.004	3.806
13/09/2025 09:00	14.895	294,655	34.753	14.117	0.005	3.004
13/09/2025 10:00	15.089	368,747	44.810	20.720	0.005	3.550
13/09/2025 11:00	15.087	366,837	44.501	20.475	0.004	5.217
13/09/2025 12:00	15.025	329,070	39.795	16.636	0.004	2.807
13/09/2025 13:00	15.098	258,369	27.512	31.362	0.004	3.821
13/09/2025 14:00	15.098	337,524	40.624	17.550	0.004	3.888
13/09/2025 15:00	15.078	339,369	40.214	18.638	0.003	3.803
13/09/2025 16:00	15.076	352,049	42.254	18.938	0.003	5.908
13/09/2025 17:00	15.054	338,892	41.150	19.969	0.003	5.347
13/09/2025 18:00	14.961	333,861	40.488	18.917	0.003	9.799
13/09/2025 19:00	14.945	331,819	40.731	17.950	0.002	6.614
13/09/2025 20:00	14.914	326,081	40.161	18.764	0.002	6.385
13/09/2025 21:00	14.989	337,875	41.133	17.477	0.002	8.764
13/09/2025 22:00	14.957	334,156	40.643	18.352	0.002	6.735
13/09/2025 23:00	14.994	336,652	41.104	18.361	0.001	5.113
14/09/2025 00:00	14.765	291,580	34.441	13.714	0.001	11.778
14/09/2025 01:00	14.765	283,410	33.925	15.308	0.001	11.083
14/09/2025 02:00	14.866	297,352	35.202	14.519	0.001	10.846
14/09/2025 03:00	14.832	300,155	35.420	14.748	0.001	10.216
14/09/2025 04:00	14.855	298,290	35.615	13.224	0.001	7.446
14/09/2025 05:00	14.833	286,531	34.276	14.176	0.001	9.495
14/09/2025 06:00	14.806	282,020	33.912	14.858	0.001	7.721
14/09/2025 07:00	14.790	280,503	33.969	13.258	0.001	7.197
14/09/2025 08:00	14.919	264,162	29.859	28.348	0.001	6.036
14/09/2025 09:00	14.855	268,338	31.454	13.623	0.001	9.458
14/09/2025 10:00	14.859	274,394	31.351	14.189	0.001	11.769
14/09/2025 11:00	14.927	269,243	30.835	17.849	0.001	6.111
14/09/2025 12:00	15.046	258,154	28.125	33.790	0.001	8.744
14/09/2025 13:00	15.045	263,443	29.764	29.921	0.001	7.726
14/09/2025 14:00	14.917	277,434	32.137	14.075	0.002	7.018
14/09/2025 15:00	14.887	281,886	33.372	15.791	0.002	5.161
14/09/2025 16:00	14.891	280,370	32.999	15.526	0.002	4.117
14/09/2025 17:00	14.833	276,860	32.397	14.900	0.002	6.328
14/09/2025 18:00	14.933	267,649	30.903	27.036	0.002	9.235
14/09/2025 19:00	14.967	341,919	41.178	16.166	0.001	6.245
14/09/2025 20:00	14.966	325,532	39.974	16.030	0.001	6.480
14/09/2025 21:00	15.004	347,469	42.399	17.747	0.001	12.665
14/09/2025 22:00	14.991	345,808	41.726	18.025	0.001	11.370
14/09/2025 23:00	15.058	358274.406	43.863	19.376	0.001	5.233
15/09/2025 00:00	15.030	354168.313	43.547	17.713	0.001	6.159
15/09/2025 01:00	15.031	352208.219	43.677	18.150	0.001	8.614
15/09/2025 02:00	15.031	349713.844	43.434	18.750	0.002	6.470
15/09/2025 03:00	15.032	346029.781	43.132	19.098	0.002	13.685
15/09/2025 04:00	15.033	348072.688	43.287	18.993	0.003	6.525
15/09/2025 05:00	15.034	350085.594	43.131	17.771	0.004	5.246
15/09/2025 06:00	15.031	350214.938	43.258	18.651	0.004	5.442
15/09/2025 07:00	15.028	349414.469	43.138	17.263	0.005	5.662
15/09/2025 08:00	15.025	348048.125	43.422	16.732	0.005	6.067
15/09/2025 09:00	14.910	324665.719	40.256	15.408	0.005	4.457
15/09/2025 10:00	14.990	323,172	38.612	17.217	0.005	4.165
15/09/2025 11:00	15.008	323,594	38.864	17.155	0.005	4.248
15/09/2025 12:00	15.002	306,190	37.030	17.156	0.005	5.389
15/09/2025 13:00	15.279	239,373	24.068	44.327	0.004	5.708

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/09/2025 14:00	15.034	331,644	39.320	17.914	0.004	5.442
15/09/2025 15:00	15.121	345,017	41.482	20.460	0.004	5.979
15/09/2025 16:00	15.066	341,311	40.663	19.734	0.003	6.349
15/09/2025 17:00	15.055	347,461	41.792	19.909	0.003	6.241
15/09/2025 18:00	15.011	328,106	39.863	18.922	0.003	8.327
15/09/2025 19:00	15.033	344,396	41.532	19.962	0.003	10.249
15/09/2025 20:00	14.990	327,744	39.809	18.890	0.003	11.565
15/09/2025 21:00	15.012	331,905	40.318	18.656	0.003	11.424
15/09/2025 22:00	15.007	334,549	40.834	18.237	0.002	11.465
15/09/2025 23:00	15.012	339,067	42.412	17.855	0.002	7.035
16/09/2025 00:00	15.058	358,226	44.021	17.676	0.002	7.149
16/09/2025 01:00	15.034	354,183	43.781	17.211	0.002	6.672
16/09/2025 02:00	15.017	354,142	43.429	17.009	0.002	5.293
16/09/2025 03:00	15.017	348,410	43.406	17.871	0.001	9.592
16/09/2025 04:00	15.017	348,076	43.371	20.001	0.001	25.230
16/09/2025 05:00	15.017	348,560	43.379	17.412	0.001	15.483
16/09/2025 06:00	15.017	347,289	43.249	19.126	0.001	8.922
16/09/2025 07:00	15.017	349,215	43.175	18.766	0.000	8.597
16/09/2025 08:00	15.017	351,642	43.376	17.582	0.000	6.466
16/09/2025 09:00	14.899	316,711	39.104	17.238	0.001	4.494
16/09/2025 10:00	14.986	333,826	40.457	17.163	0.001	3.760
16/09/2025 11:00	15.050	346,039	41.647	17.517	0.002	2.792
16/09/2025 12:00	14.967	327,918	39.294	16.278	0.002	2.365
16/09/2025 13:00	15.221	244,657	25.401	38.645	0.002	3.877
16/09/2025 14:00	15.067	335,785	40.171	17.136	0.003	4.272
16/09/2025 15:00	15.064	354,485	42.630	18.883	0.003	5.532
16/09/2025 16:00	15.081	343,659	41.896	19.960	0.004	6.189
16/09/2025 17:00	15.066	352,258	42.030	19.586	0.003	6.488
16/09/2025 18:00	15.049	343,981	41.456	19.700	0.003	7.328
16/09/2025 19:00	15.055	351,182	43.452	20.760	0.002	11.944
16/09/2025 20:00	14.968	333,719	40.198	18.704	0.002	8.491
16/09/2025 21:00	14.981	332,823	40.603	17.121	0.001	7.253
16/09/2025 22:00	14.964	333,806	40.631	16.984	0.001	7.824
16/09/2025 23:00	14.950	332602.031	40.361	16.400	0.000	4.919
17/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/09/2025 11:00	14.971	359,287	43.208	19.882	0.005	8.797
17/09/2025 12:00	14.927	327,539	39.458	16.830	0.005	6.238
17/09/2025 13:00	15.134	248,499	26.014	37.390	0.004	4.084
17/09/2025 14:00	14.972	330,442	39.949	16.833	0.004	3.339
17/09/2025 15:00	15.034	346,127	41.474	16.692	0.004	4.382
17/09/2025 16:00	15.085	349,880	41.731	18.499	0.004	6.346
17/09/2025 17:00	15.028	334,037	40.573	17.629	0.003	7.782
17/09/2025 18:00	15.065	335,966	40.958	18.524	0.003	8.489
17/09/2025 19:00	15.047	344,997	41.949	17.724	0.003	9.489
17/09/2025 20:00	14.981	331,816	40.368	18.546	0.003	12.977
17/09/2025 21:00	15.037	347,687	42.049	18.166	0.002	12.957
17/09/2025 22:00	15.004	344,328	42.248	17.947	0.002	19.262
17/09/2025 23:00	14.954	340,053	41.753	18.675	0.002	14.140
18/09/2025 00:00	15.026	350,095	43.553	18.943	0.001	19.934
18/09/2025 01:00	15.028	348,459	43.350	19.355	0.001	13.538
18/09/2025 02:00	15.031	352,130	43.371	17.839	0.001	14.035
18/09/2025 03:00	15.033	349,181	43.369	19.329	0.001	13.050
18/09/2025 04:00	15.035	350,185	43.381	16.686	0.001	8.169
18/09/2025 05:00	15.038	351,322	43.375	18.197	0.001	5.112
18/09/2025 06:00	15.040	350,926	43.268	17.142	0.000	5.014
18/09/2025 07:00	15.042	350,106	43.299	18.241	0.000	4.726
18/09/2025 08:00	15.055	350,278	43.391	17.986	0.000	4.954
18/09/2025 09:00	15.084	362,236	43.739	17.862	0.000	5.946
18/09/2025 10:00	15.037	324,217	39.299	18.059	0.000	4.326
18/09/2025 11:00	15.080	333,694	40.290	18.211	0.000	3.709

Site Name:  
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GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/09/2025 12:00	14.993	321,442	38.183	16.828	0.000	6.138
18/09/2025 13:00	15.156	249,201	26.230	36.335	0.000	3.932
18/09/2025 14:00	15.061	338,261	40.602	17.702	0.000	5.550
18/09/2025 15:00	15.049	325,597	39.150	18.236	0.000	3.083
18/09/2025 16:00	15.125	355,171	43.052	19.280	0.000	3.453
18/09/2025 17:00	15.076	354,478	42.858	18.879	0.000	6.465
18/09/2025 18:00	15.076	349,418	42.226	17.928	0.000	6.809
18/09/2025 19:00	15.072	342,863	41.881	18.194	0.000	9.622
18/09/2025 20:00	15.024	335,858	40.708	19.136	0.000	17.020
18/09/2025 21:00	14.985	336,682	41.885	17.888	0.000	16.237
18/09/2025 22:00	14.962	338,374	41.355	18.316	0.000	14.726
18/09/2025 23:00	14.973	336,388	41.478	19.242	0.000	16.920
19/09/2025 00:00	15.084	359,559	44.308	21.231	0.000	13.178
19/09/2025 01:00	15.037	351,938	43.337	19.028	0.000	12.705
19/09/2025 02:00	15.059	352,600	43.479	18.673	0.000	14.935
19/09/2025 03:00	15.076	354,109	43.387	19.236	0.000	14.526
19/09/2025 04:00	15.073	356,022	43.318	20.137	0.000	8.796
19/09/2025 05:00	15.054	353,738	43.338	19.592	0.000	12.013
19/09/2025 06:00	15.075	355,914	43.453	18.564	0.001	6.044
19/09/2025 07:00	15.041	350,289	43.265	18.443	0.001	4.129
19/09/2025 08:00	15.056	355,241	43.326	18.108	0.002	8.598
19/09/2025 09:00	15.058	332,277	40.130	17.481	0.002	5.622
19/09/2025 10:00	15.044	331,597	39.798	18.121	0.002	6.423
19/09/2025 11:00	15.048	324,052	38.741	17.780	0.002	4.845
19/09/2025 12:00	14.957	330,440	39.741	17.587	0.002	7.852
19/09/2025 13:00	15.156	246,188	25.673	36.920	0.002	6.510
19/09/2025 14:00	15.018	328,391	39.574	17.986	0.002	5.752
19/09/2025 15:00	15.013	337,297	40.105	18.976	0.002	7.609
19/09/2025 16:00	15.060	332,369	40.104	19.814	0.001	7.527
19/09/2025 17:00	14.995	334,785	40.058	18.658	0.001	8.932
19/09/2025 18:00	14.988	335,217	40.300	20.063	0.001	12.068
19/09/2025 19:00	15.030	337,817	40.942	19.445	0.002	13.453
19/09/2025 20:00	15.009	336,156	40.840	20.180	0.003	18.599
19/09/2025 21:00	15.022	337,155	40.748	19.666	0.004	14.834
19/09/2025 22:00	15.014	331,892	40.816	19.516	0.004	11.112
19/09/2025 23:00	15.043	352439.563	43.071	19.297	0.005	10.990
20/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
20/09/2025 10:00	14.976	333,529	39.599	18.768	0.000	9.546
20/09/2025 11:00	15.004	330,719	40.686	18.456	0.000	13.474
20/09/2025 12:00	15.060	322,004	38.549	18.915	0.000	6.256
20/09/2025 13:00	15.208	241,966	24.498	39.161	0.000	5.564
20/09/2025 14:00	15.008	323,576	38.728	18.218	0.000	6.257
20/09/2025 15:00	15.001	329,844	39.282	19.176	0.000	6.454
20/09/2025 16:00	15.041	347,654	41.635	18.297	0.000	12.521
20/09/2025 17:00	15.020	335,024	40.293	19.814	0.000	6.448
20/09/2025 18:00	15.034	326,443	39.768	19.740	0.000	6.955
20/09/2025 19:00	15.001	327,805	39.766	20.007	0.000	15.281
20/09/2025 20:00	15.016	328,575	40.055	17.890	0.000	15.228
20/09/2025 21:00	15.014	338,955	41.256	17.801	0.000	12.810
20/09/2025 22:00	15.004	334,375	40.332	18.496	0.000	12.897
20/09/2025 23:00	15.032	335,870	41.019	17.636	0.000	12.690
21/09/2025 00:00	15.074	348,026	43.139	18.459	0.000	14.089
21/09/2025 01:00	15.075	354,240	42.924	19.329	0.000	18.482
21/09/2025 02:00	15.076	354,249	43.635	19.609	0.000	12.234
21/09/2025 03:00	15.077	352,403	43.234	18.952	0.000	12.217
21/09/2025 04:00	15.078	354,021	43.072	19.759	0.000	14.259
21/09/2025 05:00	15.080	353,356	43.360	19.635	0.000	13.258
21/09/2025 06:00	15.081	351,380	43.251	19.168	0.000	15.639
21/09/2025 07:00	15.082	356,190	43.342	18.682	0.000	13.908
21/09/2025 08:00	15.089	352,231	43.323	18.983	0.000	9.927
21/09/2025 09:00	15.118	354,308	43.323	19.815	0.000	8.823

Site Name:  
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GNLL2  
HRSG11  
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Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/09/2025 10:00	15.088	356,193	43.152	19.546	0.000	7.540
21/09/2025 11:00	15.102	352,793	43.259	20.095	0.000	8.814
21/09/2025 12:00	15.130	355,499	43.052	21.027	0.000	6.855
21/09/2025 13:00	15.137	353,094	43.189	21.428	0.000	5.687
21/09/2025 14:00	15.140	356,550	43.376	22.144	0.000	5.361
21/09/2025 15:00	15.124	360,080	43.222	20.742	0.000	5.437
21/09/2025 16:00	15.115	355,635	43.260	21.187	0.000	5.967
21/09/2025 17:00	15.123	356,146	43.144	21.034	0.000	6.310
21/09/2025 18:00	15.103	357,609	43.385	20.882	0.000	6.796
21/09/2025 19:00	14.978	335,796	40.207	18.753	0.001	10.981
21/09/2025 20:00	14.974	328,301	39.393	19.055	0.001	12.736
21/09/2025 21:00	14.997	340,995	41.081	18.662	0.001	14.503
21/09/2025 22:00	14.924	331,658	41.197	19.354	0.001	24.522
21/09/2025 23:00	14.811	277604.500	34.325	14.532	0.001	14.883
22/09/2025 00:00	14.867	276385.438	32.822	14.477	0.001	10.233
22/09/2025 01:00	14.834	281901.281	33.399	14.133	0.001	7.563
22/09/2025 02:00	14.834	277251.063	32.827	14.098	0.001	5.545
22/09/2025 03:00	14.890	291775.531	35.810	14.289	0.001	10.659
22/09/2025 04:00	14.852	279767.281	33.130	14.392	0.001	9.515
22/09/2025 05:00	14.862	279140.313	33.600	12.966	0.001	9.691
22/09/2025 06:00	14.869	295557.594	35.035	15.202	0.001	12.369
22/09/2025 07:00	14.906	300381.688	35.682	13.380	0.001	12.807
22/09/2025 08:00	14.865	276552.563	32.431	13.240	0.001	11.613
22/09/2025 09:00	14.979	304882.156	36.347	14.720	0.001	11.679
22/09/2025 10:00	15.044	344,998	40.575	16.301	0.001	9.081
22/09/2025 11:00	15.084	330,165	40.090	19.100	0.005	5.990
22/09/2025 12:00	15.069	334,097	40.295	18.885	0.004	4.707
22/09/2025 13:00	15.143	258,202	27.970	37.378	0.003	4.059
22/09/2025 14:00	15.103	344,613	41.492	20.598	0.002	4.677
22/09/2025 15:00	15.174	339,089	40.846	20.434	0.001	2.055
22/09/2025 16:00	15.161	332,962	40.452	21.547	0.000	1.565
22/09/2025 17:00	15.074	335,836	40.446	18.296	0.000	4.301
22/09/2025 18:00	15.069	331,358	40.006	19.328	0.000	6.434
22/09/2025 19:00	15.031	337,720	40.799	20.438	0.000	9.531
22/09/2025 20:00	14.991	332,988	40.093	19.318	0.000	11.367
22/09/2025 21:00	15.037	337,710	40.712	20.236	0.000	11.894
22/09/2025 22:00	15.037	344,260	41.665	18.595	0.000	13.400
22/09/2025 23:00	14.960	331,695	40.272	18.600	0.000	8.241
23/09/2025 00:00	14.836	298,897	36.130	15.077	0.000	5.201
23/09/2025 01:00	14.967	314,887	37.460	15.916	0.000	9.922
23/09/2025 02:00	14.931	307,094	37.102	14.649	0.001	9.031
23/09/2025 03:00	14.937	313,360	38.370	16.167	0.001	9.317
23/09/2025 04:00	14.930	295,227	35.396	15.280	0.001	11.819
23/09/2025 05:00	14.910	296,943	35.814	14.153	0.001	11.562
23/09/2025 06:00	14.950	308,183	37.406	15.206	0.001	9.773
23/09/2025 07:00	14.903	298,038	34.817	15.788	0.001	11.895
23/09/2025 08:00	14.877	280,481	33.337	13.656	0.001	12.907
23/09/2025 09:00	14.917	280,520	32.969	13.472	0.001	9.459
23/09/2025 10:00	14.907	309,176	37.063	16.223	0.001	8.062
23/09/2025 11:00	15.004	315,314	37.854	17.918	0.001	8.347
23/09/2025 12:00	14.920	321,575	39.141	17.204	0.001	11.613
23/09/2025 13:00	15.165	245,721	25.546	38.234	0.001	10.944
23/09/2025 14:00	14.989	334,458	40.578	18.052	0.001	10.871
23/09/2025 15:00	15.038	333,788	40.246	18.441	0.001	9.394
23/09/2025 16:00	15.035	335,730	40.191	19.661	0.000	12.819
23/09/2025 17:00	14.985	326,896	38.951	18.765	0.000	14.731
23/09/2025 18:00	15.014	332,477	40.038	19.217	0.000	8.872
23/09/2025 19:00	15.028	326,118	39.590	19.129	0.000	11.060
23/09/2025 20:00	14.997	325,545	39.214	17.992	0.001	13.665
23/09/2025 21:00	14.993	337,065	40.630	19.191	0.001	17.635
23/09/2025 22:00	15.045	332,755	40.302	18.474	0.002	12.031
23/09/2025 23:00	15.025	339,830	40.899	18.751	0.002	10.043
24/09/2025 00:00	14.877	293,393	35.005	16.207	0.003	9.331
24/09/2025 01:00	14.973	321,559	38.390	15.569	0.003	12.240
24/09/2025 02:00	14.952	308,792	37.158	17.365	0.004	15.287
24/09/2025 03:00	14.938	326,556	38.909	16.843	0.003	16.404
24/09/2025 04:00	14.901	302,986	36.228	15.360	0.002	16.585
24/09/2025 05:00	14.898	299,734	36.273	16.557	0.001	16.714
24/09/2025 06:00	14.927	296,041	35.534	16.048	0.000	12.991
24/09/2025 07:00	14.918	293,064	34.903	16.559	0.000	10.558

Site Name:  
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GNLL2  
HRSG11  
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Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/09/2025 08:00	14.908	290,047	34.393	14.967	0.000	13.235
24/09/2025 09:00	14.922	301,971	35.916	15.578	0.000	11.272
24/09/2025 10:00	14.982	335,864	40.118	15.944	0.000	9.512
24/09/2025 11:00	15.083	338,206	40.591	18.503	0.000	6.064
24/09/2025 12:00	14.942	313,846	37.100	16.730	0.000	7.830
24/09/2025 13:00	15.255	238,610	23.785	41.557	0.000	7.073
24/09/2025 14:00	15.108	354,221	41.985	19.821	0.000	6.201
24/09/2025 15:00	15.030	325,550	38.651	18.763	0.000	7.809
24/09/2025 16:00	15.007	325,156	39.314	18.706	0.000	6.827
24/09/2025 17:00	15.006	319,356	38.175	18.227	0.001	11.071
24/09/2025 18:00	15.055	341,769	40.815	20.884	0.002	4.402
24/09/2025 19:00	15.056	339,702	40.460	19.354	0.002	5.707
24/09/2025 20:00	14.981	318,876	38.660	18.035	0.002	9.169
24/09/2025 21:00	14.971	326,276	39.646	17.051	0.002	12.307
24/09/2025 22:00	15.012	326,069	39.387	17.672	0.002	11.447
24/09/2025 23:00	15.075	331,908	40.152	18.278	0.002	7.520
25/09/2025 00:00	14.916	295,533	35.306	16.678	0.002	5.409
25/09/2025 01:00	14.983	305,846	37.347	17.133	0.002	10.132
25/09/2025 02:00	14.973	309,910	37.172	15.443	0.002	9.225
25/09/2025 03:00	14.940	295,028	34.998	16.128	0.002	12.050
25/09/2025 04:00	14.914	290,789	35.112	15.480	0.001	15.698
25/09/2025 05:00	14.877	292,636	35.007	15.872	0.001	14.379
25/09/2025 06:00	14.918	308,400	36.729	15.341	0.001	20.320
25/09/2025 07:00	14.916	296,227	35.467	14.298	0.000	15.030
25/09/2025 08:00	14.877	277,278	32.708	14.562	0.000	11.797
25/09/2025 09:00	14.879	282,744	33.768	15.867	0.000	8.403
25/09/2025 10:00	14.993	320,780	38.245	16.695	0.000	6.316
25/09/2025 11:00	15.071	319,406	38.273	18.517	0.000	5.040
25/09/2025 12:00	15.032	313,816	37.622	18.483	0.000	3.830
25/09/2025 13:00	15.321	232,424	22.787	45.833	0.000	4.918
25/09/2025 14:00	15.041	322,671	38.717	18.200	0.000	4.353
25/09/2025 15:00	15.011	341,255	40.812	18.065	0.000	5.761
25/09/2025 16:00	15.053	325,605	38.790	18.832	0.000	8.245
25/09/2025 17:00	15.026	319,920	38.491	18.861	0.000	9.370
25/09/2025 18:00	14.967	319,182	38.620	17.656	0.000	11.248
25/09/2025 19:00	14.989	322,646	38.591	18.010	0.000	10.593
25/09/2025 20:00	14.994	319,466	38.642	18.460	0.000	14.223
25/09/2025 21:00	15.007	333,819	39.972	18.271	0.000	13.217
25/09/2025 22:00	14.987	322,270	39.091	17.996	0.000	11.446
25/09/2025 23:00	14.984	333,791	40.265	18.153	0.000	15.518
26/09/2025 00:00	14.777	285,608	34.334	15.695	0.000	16.834
26/09/2025 01:00	14.920	298,123	35.265	15.962	0.000	13.205
26/09/2025 02:00	14.912	292,421	35.807	16.597	0.000	13.709
26/09/2025 03:00	14.932	302,263	36.369	15.815	0.000	10.781
26/09/2025 04:00	14.925	290,831	34.709	16.102	0.000	14.734
26/09/2025 05:00	14.917	294,382	35.229	15.122	0.000	15.809
26/09/2025 06:00	14.915	299,767	35.840	15.799	0.000	15.323
26/09/2025 07:00	14.885	283,130	34.258	17.173	0.000	13.622
26/09/2025 08:00	14.928	272,886	32.010	13.662	0.001	13.330
26/09/2025 09:00	14.989	264,297	30.701	22.505	0.001	7.132
26/09/2025 10:00	15.019	326,259	39.990	16.207	0.001	7.279
26/09/2025 11:00	14.981	315,646	38.214	16.314	0.001	7.670
26/09/2025 12:00	14.943	294,945	34.652	16.905	0.001	8.304
26/09/2025 13:00	15.337	228,696	22.376	46.415	0.001	8.413
26/09/2025 14:00	14.938	304,958	36.276	16.718	0.001	6.972
26/09/2025 15:00	15.016	302,431	36.214	17.917	0.001	3.296
26/09/2025 16:00	15.027	315,687	37.691	18.081	0.001	3.024
26/09/2025 17:00	14.983	309,436	37.226	17.511	0.001	3.817
26/09/2025 18:00	14.962	308,000	37.051	16.707	0.001	8.191
26/09/2025 19:00	14.933	303,029	36.410	17.092	0.001	13.512
26/09/2025 20:00	14.947	302,841	36.425	16.800	0.001	17.471
26/09/2025 21:00	14.916	301,373	36.195	17.693	0.001	14.978
26/09/2025 22:00	14.965	308,963	36.815	17.195	0.001	12.363
26/09/2025 23:00	14.948	311,249	37.288	17.109	0.001	11.221
27/09/2025 00:00	14.806	278,454	32.420	14.176	0.001	15.191
27/09/2025 01:00	14.866	283,500	34.355	15.125	0.001	14.177
27/09/2025 02:00	14.910	294,276	34.935	15.675	0.001	9.012
27/09/2025 03:00	14.902	278,244	33.112	15.172	0.001	14.183
27/09/2025 04:00	14.879	269,540	31.829	18.779	0.001	16.091
27/09/2025 05:00	14.886	275,652	32.733	15.459	0.001	13.512

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/09/2025 06:00	14.838	272,700	32.567	13.124	0.001	17.471
27/09/2025 07:00	14.838	276,173	33.101	14.231	0.001	14.978
27/09/2025 08:00	14.970	259,816	29.215	31.472	0.001	22.280
27/09/2025 09:00	14.900	266,540	30.808	26.855	0.001	12.597
27/09/2025 10:00	14.898	327,396	39.391	16.606	0.001	9.030
27/09/2025 11:00	14.955	318,842	37.984	15.956	0.001	6.485
27/09/2025 12:00	14.907	299,011	35.716	15.334	0.001	7.471
27/09/2025 13:00	15.243	241,373	24.614	45.464	0.001	6.093
27/09/2025 14:00	14.963	316,060	37.059	16.311	0.001	5.746
27/09/2025 15:00	15.017	319,443	38.514	16.513	0.001	4.920
27/09/2025 16:00	15.025	310,674	37.419	16.395	0.001	3.996
27/09/2025 17:00	15.013	317,332	38.845	16.568	0.001	4.555
27/09/2025 18:00	14.991	308,512	37.399	17.328	0.001	5.383
27/09/2025 19:00	14.956	309,003	37.208	17.517	0.001	5.985
27/09/2025 20:00	14.932	303,653	36.650	16.383	0.001	10.691
27/09/2025 21:00	14.907	303,200	37.034	16.968	0.002	10.430
27/09/2025 22:00	14.907	309,170	37.059	17.124	0.002	14.822
27/09/2025 23:00	14.907	307,687	37.272	16.295	0.002	13.911
28/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/09/2025 19:00	14.892	295,000	34.945	17.561	0.001	12.472
28/09/2025 20:00	14.898	295,991	35.257	16.624	0.000	17.709
28/09/2025 21:00	14.907	298,232	35.119	17.378	0.001	13.018
28/09/2025 22:00	14.918	294,946	35.251	16.997	0.001	17.414
28/09/2025 23:00	14.896	266888.969	29.687	19.594	0.002	20.466
29/09/2025 00:00	15.025	264135.188	29.825	31.989	0.003	17.752
29/09/2025 01:00	14.985	262614.594	28.668	19.434	0.003	17.077
29/09/2025 02:00	15.000	262165.781	29.810	30.747	0.004	21.865
29/09/2025 03:00	15.053	255553.719	28.815	34.746	0.004	13.081
29/09/2025 04:00	15.039	256148.453	28.483	33.217	0.004	18.665
29/09/2025 05:00	14.985	264262.500	30.465	14.128	0.004	14.903
29/09/2025 06:00	14.987	262656.125	29.616	27.723	0.003	18.113
29/09/2025 07:00	15.019	258973.594	28.461	31.883	0.003	13.010
29/09/2025 08:00	15.086	253889.797	28.268	33.281	0.002	10.037
29/09/2025 09:00	15.049	268173.219	30.705	24.156	0.002	8.307
29/09/2025 10:00	14.943	307824.188	36.600	15.579	0.001	8.160
29/09/2025 11:00	15.006	311,178	37.014	17.955	0.001	8.353
29/09/2025 12:00	14.937	289,874	34.329	17.127	0.000	7.554
29/09/2025 13:00	15.355	234,096	22.979	46.632	0.000	7.576
29/09/2025 14:00	14.979	308,571	36.477	17.521	0.000	8.305
29/09/2025 15:00	14.980	313,303	37.667	18.283	0.000	10.430
29/09/2025 16:00	14.964	309,818	37.023	18.405	0.000	10.434
29/09/2025 17:00	14.931	306,120	36.530	18.698	0.000	13.868
29/09/2025 18:00	14.948	314,148	37.381	18.033	0.000	14.576
29/09/2025 19:00	14.926	303,835	36.411	17.640	0.000	17.943
29/09/2025 20:00	14.930	299,006	35.670	18.592	0.001	16.335
29/09/2025 21:00	14.943	311,267	37.352	17.417	0.001	14.485
29/09/2025 22:00	14.934	302,758	36.208	17.976	0.002	15.031
29/09/2025 23:00	14.940	301858.406	36.197	18.084	0.002	12.331
30/09/2025 00:00	15.076	354145.438	43.478	21.729	0.002	12.545
30/09/2025 01:00	15.069	352188.188	43.405	20.950	0.003	15.784
30/09/2025 02:00	15.062	354164.969	43.417	20.817	0.003	14.647
30/09/2025 03:00	15.056	356136.344	43.263	21.435	0.004	14.988

GNLL2  
HRSG11  
1/Sep/25 00:00 - 30/Sep/25 23:59

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Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS11_NOx@7%O2	HRS11_SOx@7%O2	HRS11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/09/2025 00:00	14.059	285,582	30.137	22.997	0.012	13.366
01/09/2025 01:00	13.988	294,416	32.175	18.270	0.011	10.953
01/09/2025 02:00	14.054	290,045	30.786	21.896	0.010	24.812
01/09/2025 03:00	14.011	294,484	31.890	18.969	0.010	9.006
01/09/2025 04:00	14.039	289,186	31.099	21.722	0.011	3.610
01/09/2025 05:00	14.074	287,514	29.767	22.623	0.011	2.834
01/09/2025 06:00	14.048	296,157	31.235	18.873	0.011	5.705
01/09/2025 07:00	14.033	288,643	31.082	21.639	0.011	8.980
01/09/2025 08:00	14.141	289,866	30.129	27.542	0.011	6.576
01/09/2025 09:00	14.164	290,502	28.880	27.492	0.011	4.267
01/09/2025 10:00	14.037	336,568	35.305	23.500	0.011	2.727
01/09/2025 11:00	14.115	347,470	37.866	25.851	0.011	2.371
01/09/2025 12:00	14.109	341,853	35.767	25.126	0.010	2.098
01/09/2025 13:00	14.517	278,342	22.138	38.662	0.010	3.266
01/09/2025 14:00	14.110	343,965	38.003	23.896	0.010	4.005
01/09/2025 15:00	14.192	362,206	39.704	25.510	0.010	3.550
01/09/2025 16:00	14.130	347,952	39.249	26.224	0.010	3.789
01/09/2025 17:00	14.084	339,715	37.996	25.148	0.009	5.263
01/09/2025 18:00	14.110	335,595	37.564	23.399	0.009	3.415
01/09/2025 19:00	14.082	335,658	37.595	25.423	0.010	3.040
01/09/2025 20:00	14.067	333,213	38.151	23.773	0.010	8.568
01/09/2025 21:00	14.065	327,616	37.931	24.644	0.011	10.000
01/09/2025 22:00	14.091	330,315	37.801	23.856	0.011	9.798
01/09/2025 23:00	14.060	340055.969	39.799	24.454	0.012	16.689
02/09/2025 00:00	14.131	379738.719	43.999	27.576	0.012	18.616
02/09/2025 01:00	14.140	374487.469	43.604	27.021	0.013	15.416
02/09/2025 02:00	14.144	365611.281	43.295	27.563	0.013	9.429
02/09/2025 03:00	14.147	353575.375	43.407	28.693	0.012	11.992
02/09/2025 04:00	14.151	355713.563	43.329	28.634	0.012	6.071
02/09/2025 05:00	14.153	358675.375	43.376	28.238	0.012	4.687
02/09/2025 06:00	14.150	358556.813	43.309	27.834	0.011	5.443
02/09/2025 07:00	14.147	355512.875	43.516	26.288	0.011	3.619
02/09/2025 08:00	14.144	363272.719	43.227	28.123	0.010	3.676
02/09/2025 09:00	14.135	345900.594	40.006	25.888	0.010	3.488
02/09/2025 10:00	14.170	355,865	40.446	25.155	0.010	4.016
02/09/2025 11:00	14.146	342,280	39.198	26.091	0.010	2.880
02/09/2025 12:00	14.070	327,910	38.058	24.747	0.010	5.986
02/09/2025 13:00	14.280	247,873	25.088	28.530	0.010	6.018
02/09/2025 14:00	14.076	326,527	40.352	25.907	0.010	5.641
02/09/2025 15:00	14.069	324,223	40.258	26.824	0.010	3.412
02/09/2025 16:00	14.051	325,811	40.143	26.771	0.010	3.316
02/09/2025 17:00	14.068	325,443	39.673	25.443	0.010	4.153
02/09/2025 18:00	14.066	336,687	39.653	24.627	0.010	2.722
02/09/2025 19:00	14.089	332,073	39.320	25.588	0.010	2.732
02/09/2025 20:00	14.055	332,269	38.899	25.699	0.010	2.450
02/09/2025 21:00	14.068	345,097	41.186	25.555	0.010	4.385
02/09/2025 22:00	14.074	334,168	39.749	25.417	0.010	5.435
02/09/2025 23:00	14.092	351699.594	41.369	24.822	0.009	3.961
03/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/09/2025 10:00	14.064	342,659	38.167	24.585	0.019	3.149
03/09/2025 11:00	14.165	345,176	37.662	25.848	0.017	3.709
03/09/2025 12:00	14.126	352,044	37.030	26.014	0.015	2.701
03/09/2025 13:00	14.318	296,581	25.543	24.445	0.013	2.839
03/09/2025 14:00	14.162	371,800	40.132	25.518	0.011	3.464
03/09/2025 15:00	14.207	374,834	41.452	27.980	0.009	4.133
03/09/2025 16:00	14.156	353,398	41.593	25.592	0.007	2.386
03/09/2025 17:00	14.127	336,083	40.213	25.961	0.008	2.167
03/09/2025 18:00	14.103	339,116	40.225	26.331	0.009	2.549
03/09/2025 19:00	14.091	351,757	42.110	24.539	0.010	2.847
03/09/2025 20:00	14.099	340,474	39.592	24.138	0.011	2.317
03/09/2025 21:00	14.105	363,503	42.643	26.418	0.012	11.494

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/09/2025 22:00	14.064	337,539	39.402	25.306	0.014	7.984
03/09/2025 23:00	14.095	346472.688	41.006	26.103	0.015	7.778
04/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/09/2025 10:00	14.086	352,771	40.688	25.279	0.013	3.179
04/09/2025 11:00	14.191	332,866	38.531	27.470	0.013	2.596
04/09/2025 12:00	14.161	318,431	37.166	27.046	0.012	2.162
04/09/2025 13:00	14.307	260,089	25.878	24.121	0.012	4.860
04/09/2025 14:00	14.136	352,030	41.279	25.864	0.011	8.569
04/09/2025 15:00	14.101	339,370	40.411	25.400	0.011	8.372
04/09/2025 16:00	14.093	349,213	40.956	27.507	0.011	13.423
04/09/2025 17:00	14.031	349,546	40.113	25.955	0.010	11.411
04/09/2025 18:00	14.062	340,459	39.475	24.453	0.010	3.304
04/09/2025 19:00	14.067	345,414	39.698	23.900	0.010	3.533
04/09/2025 20:00	14.052	353,962	40.583	25.438	0.010	7.333
04/09/2025 21:00	14.060	346,711	39.781	25.889	0.010	5.754
04/09/2025 22:00	14.049	344,693	39.183	25.394	0.010	3.404
04/09/2025 23:00	14.103	351,014	40.294	25.282	0.010	4.358
05/09/2025 00:00	14.126	387,013	45.708	30.408	0.010	13.722
05/09/2025 01:00	14.138	369,248	42.971	26.545	0.010	12.520
05/09/2025 02:00	14.129	355,711	43.264	26.988	0.010	8.961
05/09/2025 03:00	14.120	352,878	43.284	27.376	0.010	18.635
05/09/2025 04:00	14.111	347,024	43.153	27.190	0.010	21.110
05/09/2025 05:00	14.114	349,054	43.398	27.621	0.010	20.429
05/09/2025 06:00	14.124	347,840	43.216	27.085	0.009	20.202
05/09/2025 07:00	14.135	352,061	43.020	26.741	0.009	4.848
05/09/2025 08:00	14.146	358,900	43.098	26.260	0.009	2.422
05/09/2025 09:00	14.060	340,979	39.342	23.840	0.009	4.509
05/09/2025 10:00	14.134	344,564	39.712	25.430	0.009	3.438
05/09/2025 11:00	14.148	349,140	39.286	25.016	0.009	1.735
05/09/2025 12:00	14.068	349,907	38.189	23.951	0.010	1.930
05/09/2025 13:00	14.184	285,413	26.432	24.682	0.010	5.440
05/09/2025 14:00	14.056	344,499	40.917	24.596	0.010	18.819
05/09/2025 15:00	14.070	341,011	39.468	25.474	0.010	13.919
05/09/2025 16:00	14.094	353,641	39.990	24.745	0.010	5.893
05/09/2025 17:00	14.094	357,492	39.901	25.055	0.011	4.165
05/09/2025 18:00	14.126	352,259	39.635	25.173	0.011	6.916
05/09/2025 19:00	14.112	349,109	39.804	25.790	0.012	8.791
05/09/2025 20:00	14.127	358,206	41.248	25.020	0.013	8.996
05/09/2025 21:00	14.093	352,950	40.557	26.354	0.013	6.930
05/09/2025 22:00	14.103	349,630	40.235	25.187	0.014	9.790
05/09/2025 23:00	14.062	354499.344	40.834	24.733	0.015	10.427
06/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
06/09/2025 10:00	14.101	363,373	40.941	24.706	0.006	2.346
06/09/2025 11:00	14.173	372,849	41.257	26.892	0.006	1.666
06/09/2025 12:00	14.132	374,324	40.067	26.581	0.005	1.067
06/09/2025 13:00	14.162	302,295	28.388	26.719	0.005	0.176
06/09/2025 14:00	14.127	349,542	43.891	28.249	0.005	9.601
06/09/2025 15:00	14.096	353,895	41.842	27.807	0.005	9.759
06/09/2025 16:00	14.132	374,763	42.553	26.456	0.004	13.694
06/09/2025 17:00	14.108	369,280	41.168	26.672	0.004	6.021
06/09/2025 18:00	14.090	365,033	40.586	25.405	0.005	7.890
06/09/2025 19:00	14.088	354,104	40.325	25.863	0.006	12.008

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSQ1_NOx@7%O2	HRSQ1_SOx@7%O2	HRSQ1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/09/2025 20:00	14.121	355,263	40.541	25.737	0.007	12.110
06/09/2025 21:00	14.124	343,836	39.605	24.899	0.008	12.076
06/09/2025 22:00	14.095	351,987	40.590	25.578	0.009	9.812
06/09/2025 23:00	14.084	360,257	41.285	25.794	0.010	10.454
07/09/2025 00:00	14.149	380,730	44.335	28.420	0.011	3.718
07/09/2025 01:00	14.140	354,521	43.552	28.353	0.012	2.346
07/09/2025 02:00	14.121	361,585	43.497	27.288	0.011	15.784
07/09/2025 03:00	14.103	362,328	43.040	28.745	0.008	7.579
07/09/2025 04:00	14.100	360,183	43.311	29.029	0.006	3.902
07/09/2025 05:00	14.098	358,868	43.256	28.077	0.004	5.571
07/09/2025 06:00	14.096	357,965	43.360	26.458	0.004	7.536
07/09/2025 07:00	14.094	364,287	43.637	27.072	0.005	6.447
07/09/2025 08:00	14.092	363,895	43.122	28.107	0.006	5.017
07/09/2025 09:00	14.104	358,745	43.219	25.872	0.007	7.024
07/09/2025 10:00	14.146	362,564	43.200	27.975	0.008	3.128
07/09/2025 11:00	14.187	375,094	43.234	27.498	0.009	2.161
07/09/2025 12:00	14.147	386,810	43.295	25.938	0.009	4.482
07/09/2025 13:00	14.171	389,827	43.374	27.897	0.010	3.586
07/09/2025 14:00	14.195	390,944	43.100	28.239	0.010	2.526
07/09/2025 15:00	14.218	389,957	43.173	27.196	0.010	3.896
07/09/2025 16:00	14.210	382,806	43.297	27.765	0.011	5.303
07/09/2025 17:00	14.182	372,654	43.237	26.712	0.011	9.486
07/09/2025 18:00	14.144	343,341	39.566	26.971	0.011	10.217
07/09/2025 19:00	14.097	349,875	40.499	24.615	0.011	11.938
07/09/2025 20:00	14.076	341,003	39.179	25.992	0.011	13.987
07/09/2025 21:00	14.106	364,561	42.167	25.713	0.011	11.478
07/09/2025 22:00	14.107	348,137	40.239	23.273	0.011	11.546
07/09/2025 23:00	13.960	276,608	32.746	22.230	0.012	10.454
08/09/2025 00:00	14.016	268,440	30.967	23.348	0.012	3.718
08/09/2025 01:00	14.084	258,557	27.884	24.882	0.012	2.346
08/09/2025 02:00	14.089	265,707	28.696	26.199	0.012	15.784
08/09/2025 03:00	14.030	280,337	31.265	24.587	0.012	7.579
08/09/2025 04:00	14.165	262,520	28.250	27.823	0.013	7.975
08/09/2025 05:00	14.056	269,380	30.074	28.813	0.013	7.156
08/09/2025 06:00	14.045	264,447	30.272	28.188	0.012	6.000
08/09/2025 07:00	13.938	270,377	31.749	21.460	0.012	20.548
08/09/2025 08:00	14.019	274,319	31.924	23.047	0.012	15.852
08/09/2025 09:00	13.945	284,656	33.106	22.211	0.012	4.748
08/09/2025 10:00	14.066	342,987	40.819	25.980	0.011	6.847
08/09/2025 11:00	14.100	345,145	40.687	25.875	0.011	5.743
08/09/2025 12:00	14.033	340,513	39.955	24.113	0.011	5.143
08/09/2025 13:00	14.254	263,777	25.132	29.115	0.011	4.425
08/09/2025 14:00	14.052	344,794	40.296	24.696	0.011	5.380
08/09/2025 15:00	14.049	341,396	40.477	24.664	0.010	18.138
08/09/2025 16:00	14.070	339,921	40.402	24.770	0.010	19.991
08/09/2025 17:00	14.059	348,181	40.330	25.170	0.010	12.755
08/09/2025 18:00	14.030	348,181	39.527	26.104	0.010	5.648
08/09/2025 19:00	14.043	342,979	39.971	25.696	0.010	4.461
08/09/2025 20:00	14.054	336,100	39.526	25.425	0.009	3.186
08/09/2025 21:00	14.079	345,610	40.202	25.936	0.009	2.187
08/09/2025 22:00	14.088	340,743	40.100	26.299	0.009	4.920
08/09/2025 23:00	14.079	344,465	39.512	26.042	0.009	3.537
09/09/2025 00:00	13.919	306,337	34.571	23.178	0.009	12.467
09/09/2025 01:00	13.988	315,482	35.697	23.517	0.009	15.143
09/09/2025 02:00	13.965	309,250	35.621	23.827	0.009	18.295
09/09/2025 03:00	13.959	306,553	36.089	24.080	0.009	24.546
09/09/2025 04:00	13.953	315,243	36.466	23.521	0.009	14.346
09/09/2025 05:00	13.964	308,245	35.501	23.917	0.009	15.312
09/09/2025 06:00	13.949	311,261	36.323	24.302	0.009	15.512
09/09/2025 07:00	13.941	301,468	35.367	22.906	0.009	10.645
09/09/2025 08:00	13.949	290,693	34.061	23.594	0.009	15.784
09/09/2025 09:00	13.934	297,169	35.260	23.273	0.009	7.579
09/09/2025 10:00	14.027	333,807	39.733	23.375	0.010	7.975
09/09/2025 11:00	14.038	330,191	39.627	25.143	0.010	7.156
09/09/2025 12:00	14.033	322,697	38.811	25.404	0.010	6.000
09/09/2025 13:00	14.223	261,360	25.243	28.586	0.010	13.691
09/09/2025 14:00	14.055	345,616	41.127	25.073	0.010	14.072
09/09/2025 15:00	14.101	348,900	40.850	25.407	0.010	13.703
09/09/2025 16:00	14.076	351,243	40.814	25.497	0.010	11.012
09/09/2025 17:00	14.056	338,230	39.387	24.644	0.010	15.762

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/09/2025 18:00	14.056	345,797	40.158	26.351	0.010	22.371
09/09/2025 19:00	14.092	342,972	39.858	26.068	0.010	10.469
09/09/2025 20:00	14.129	350,103	40.230	26.992	0.010	10.333
09/09/2025 21:00	14.062	342,309	40.055	26.899	0.010	9.310
09/09/2025 22:00	14.074	340,029	39.774	25.535	0.011	8.611
09/09/2025 23:00	14.084	350,464	40.791	25.912	0.011	12.483
10/09/2025 00:00	13.936	310,155	35.222	22.943	0.011	13.683
10/09/2025 01:00	13.961	319,286	36.550	24.594	0.012	20.828
10/09/2025 02:00	13.962	303,848	35.749	24.547	0.012	17.841
10/09/2025 03:00	13.978	328,114	37.424	24.518	0.012	12.130
10/09/2025 04:00	13.975	320,253	35.931	24.451	0.013	9.785
10/09/2025 05:00	14.013	334,650	38.802	24.584	0.013	23.278
10/09/2025 06:00	13.946	320,625	36.265	24.632	0.012	9.257
10/09/2025 07:00	13.927	312,396	35.036	24.702	0.012	11.335
10/09/2025 08:00	13.990	309,555	33.313	21.859	0.011	6.820
10/09/2025 09:00	14.012	310,236	34.160	24.447	0.011	5.993
10/09/2025 10:00	14.156	357,875	39.346	26.656	0.010	6.667
10/09/2025 11:00	14.142	367,737	39.880	26.448	0.010	3.481
10/09/2025 12:00	14.136	358,820	39.908	26.283	0.009	3.180
10/09/2025 13:00	14.299	293,905	25.688	24.246	0.009	4.135
10/09/2025 14:00	14.101	347,513	39.552	24.756	0.009	4.358
10/09/2025 15:00	14.196	362,651	41.215	27.293	0.009	4.328
10/09/2025 16:00	14.163	367,019	41.288	27.022	0.009	5.717
10/09/2025 17:00	14.162	362,940	40.218	27.263	0.009	4.192
10/09/2025 18:00	14.198	348,512	40.987	27.276	0.009	7.277
10/09/2025 19:00	14.133	343,624	40.579	27.256	0.009	9.713
10/09/2025 20:00	14.079	350,165	41.024	26.525	0.009	10.837
10/09/2025 21:00	14.077	329,961	37.562	22.657	0.009	11.683
10/09/2025 22:00	14.134	386,129	45.924	31.223	0.010	5.373
10/09/2025 23:00	14.093	347,855	40.462	26.791	0.010	7.055
11/09/2025 00:00	13.927	320,377	35.838	23.090	0.011	8.889
11/09/2025 01:00	14.020	336,886	37.161	24.509	0.011	9.360
11/09/2025 02:00	13.981	338,836	38.583	23.969	0.012	6.368
11/09/2025 03:00	13.953	309,780	36.660	23.484	0.012	6.820
11/09/2025 04:00	13.953	298,756	35.120	22.613	0.012	16.504
11/09/2025 05:00	13.930	297,561	35.636	23.433	0.012	19.163
11/09/2025 06:00	13.988	309,320	37.060	24.208	0.012	11.409
11/09/2025 07:00	13.964	301,602	36.419	23.932	0.012	4.431
11/09/2025 08:00	13.956	292,422	33.096	20.845	0.012	3.088
11/09/2025 09:00	13.940	297,938	34.356	22.036	0.012	3.326
11/09/2025 10:00	14.094	367,192	41.178	25.003	0.012	3.402
11/09/2025 11:00	14.168	363,183	39.589	26.198	0.012	3.103
11/09/2025 12:00	14.127	352,682	38.437	25.803	0.012	4.142
11/09/2025 13:00	14.341	280,712	24.921	27.880	0.012	2.626
11/09/2025 14:00	14.133	356,113	38.826	24.215	0.012	2.669
11/09/2025 15:00	14.202	383,037	41.903	26.970	0.011	3.439
11/09/2025 16:00	14.119	349,766	40.899	25.141	0.011	4.183
11/09/2025 17:00	14.207	375,281	42.809	26.661	0.011	2.498
11/09/2025 18:00	14.153	367,757	42.071	25.839	0.011	4.706
11/09/2025 19:00	14.173	353,996	41.991	26.477	0.010	7.362
11/09/2025 20:00	14.132	350,595	40.094	26.555	0.010	7.265
11/09/2025 21:00	14.127	359,985	41.444	25.462	0.010	5.293
11/09/2025 22:00	14.141	356,707	40.828	26.169	0.011	5.357
11/09/2025 23:00	14.139	363,106	41.390	26.601	0.011	2.367
12/09/2025 00:00	13.967	337,267	36.323	22.173	0.011	4.213
12/09/2025 01:00	13.987	323,613	35.465	22.899	0.011	4.609
12/09/2025 02:00	14.014	337,474	37.265	24.125	0.012	3.630
12/09/2025 03:00	13.941	328,845	36.180	23.332	0.012	3.176
12/09/2025 04:00	13.940	319,337	34.856	22.781	0.012	4.566
12/09/2025 05:00	14.032	337,161	37.623	21.847	0.012	2.962
12/09/2025 06:00	13.981	329,427	36.585	22.575	0.012	3.002
12/09/2025 07:00	13.950	310,056	36.031	23.635	0.012	3.229
12/09/2025 08:00	13.964	301,675	34.187	22.184	0.012	4.297
12/09/2025 09:00	13.999	322,614	36.445	23.450	0.011	5.604
12/09/2025 10:00	14.149	380,769	42.687	27.195	0.011	6.701
12/09/2025 11:00	14.172	365,320	40.959	25.583	0.011	4.079
12/09/2025 12:00	14.154	351,123	39.561	27.444	0.011	2.273
12/09/2025 13:00	14.243	290,992	27.190	25.616	0.012	2.090
12/09/2025 14:00	14.185	385,332	41.205	26.259	0.012	2.662
12/09/2025 15:00	14.203	383,237	39.795	27.060	0.012	1.812

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSQ1_NOx@7%O2	HRSQ1_SOx@7%O2	HRSQ1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/09/2025 16:00	14.207	396,977	43.468	27.539	0.013	1.610
12/09/2025 17:00	14.107	370,901	41.569	24.737	0.013	5.844
12/09/2025 18:00	14.155	363,678	41.019	24.981	0.013	4.902
12/09/2025 19:00	14.170	366,098	41.120	26.383	0.014	5.069
12/09/2025 20:00	14.136	372,528	41.196	24.945	0.014	5.785
12/09/2025 21:00	14.112	383,800	42.667	25.876	0.013	2.733
12/09/2025 22:00	14.102	365,178	41.531	25.140	0.013	6.033
12/09/2025 23:00	14.072	382,842	42.889	26.370	0.013	3.087
13/09/2025 00:00	13.871	312,621	34.278	21.287	0.012	4.507
13/09/2025 01:00	13.947	329,577	36.937	22.780	0.012	3.664
13/09/2025 02:00	13.948	323,254	36.934	23.064	0.012	6.069
13/09/2025 03:00	13.975	324,554	36.985	23.491	0.011	6.229
13/09/2025 04:00	13.927	313,495	35.395	23.247	0.011	5.670
13/09/2025 05:00	13.936	296,460	34.796	23.045	0.012	3.364
13/09/2025 06:00	13.930	312,904	36.897	23.765	0.012	3.317
13/09/2025 07:00	13.951	320,828	35.449	22.979	0.013	3.098
13/09/2025 08:00	14.007	300,084	31.921	18.503	0.013	2.404
13/09/2025 09:00	13.987	332,718	34.748	22.686	0.013	1.984
13/09/2025 10:00	14.176	403,575	44.480	29.998	0.014	2.210
13/09/2025 11:00	14.168	395,187	44.618	31.506	0.014	1.867
13/09/2025 12:00	14.149	380,721	39.692	25.681	0.015	2.005
13/09/2025 13:00	14.196	310,948	27.400	25.143	0.014	2.479
13/09/2025 14:00	14.193	375,800	40.382	25.056	0.014	2.946
13/09/2025 15:00	14.197	375,292	40.119	26.971	0.014	2.438
13/09/2025 16:00	14.167	383,956	42.152	26.213	0.014	4.003
13/09/2025 17:00	14.157	358,495	41.270	28.631	0.014	3.158
13/09/2025 18:00	14.140	331,525	40.375	25.561	0.014	6.105
13/09/2025 19:00	14.082	325,587	40.631	25.961	0.014	3.820
13/09/2025 20:00	14.055	320,762	40.111	26.311	0.013	3.149
13/09/2025 21:00	14.110	331,711	41.194	27.226	0.013	5.002
13/09/2025 22:00	14.093	323,412	40.655	27.593	0.013	3.127
13/09/2025 23:00	14.101	331,498	41.167	26.716	0.013	2.850
14/09/2025 00:00	13.883	299,433	34.342	22.676	0.013	7.506
14/09/2025 01:00	13.909	302,747	33.772	23.718	0.013	11.286
14/09/2025 02:00	13.973	312,691	35.262	23.144	0.013	9.933
14/09/2025 03:00	13.945	309,700	35.473	23.110	0.013	9.843
14/09/2025 04:00	13.947	302,073	35.557	23.704	0.012	5.444
14/09/2025 05:00	13.943	291,084	34.383	22.764	0.012	4.842
14/09/2025 06:00	13.926	288,430	33.687	23.264	0.012	4.515
14/09/2025 07:00	13.918	288,633	33.863	23.112	0.012	3.740
14/09/2025 08:00	14.074	272,239	29.829	26.169	0.011	3.409
14/09/2025 09:00	13.990	282,126	31.276	21.429	0.011	4.138
14/09/2025 10:00	13.975	302,123	31.239	21.184	0.011	7.934
14/09/2025 11:00	14.055	310,553	30.901	24.978	0.010	4.217
14/09/2025 12:00	14.199	303,936	28.004	26.071	0.011	7.064
14/09/2025 13:00	14.175	310,653	29.776	26.261	0.011	4.862
14/09/2025 14:00	14.050	319,960	32.060	20.158	0.011	5.550
14/09/2025 15:00	14.000	320,679	33.340	21.522	0.011	3.480
14/09/2025 16:00	14.001	290,414	33.113	21.101	0.012	2.094
14/09/2025 17:00	13.982	279,476	32.443	23.907	0.012	3.451
14/09/2025 18:00	14.077	273,885	30.854	27.963	0.012	6.904
14/09/2025 19:00	14.060	345,777	41.173	24.918	0.013	3.098
14/09/2025 20:00	14.091	344,690	40.073	25.421	0.014	2.982
14/09/2025 21:00	14.112	362,725	42.264	27.152	0.016	11.265
14/09/2025 22:00	14.096	361,523	41.830	27.096	0.018	9.167
14/09/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/09/2025 10:00	14.107	364,923	38.533	24.094	0.006	2.563
15/09/2025 11:00	14.188	377,466	38.859	25.787	0.007	3.148
15/09/2025 12:00	14.126	349,489	37.014	25.295	0.008	3.450
15/09/2025 13:00	14.434	290,841	24.020	38.861	0.009	3.607

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/09/2025 14:00	14.125	366,732	39.276	25.038	0.009	3.648
15/09/2025 15:00	14.191	382,270	41.487	27.678	0.010	3.614
15/09/2025 16:00	14.185	372,489	40.722	27.621	0.011	4.590
15/09/2025 17:00	14.188	380,811	41.697	27.173	0.012	4.277
15/09/2025 18:00	14.141	363,903	39.830	27.118	0.013	5.989
15/09/2025 19:00	14.144	362,282	41.501	25.921	0.014	8.076
15/09/2025 20:00	14.144	352,857	39.703	26.581	0.014	9.277
15/09/2025 21:00	14.148	357,259	40.173	25.527	0.015	9.127
15/09/2025 22:00	14.148	358,570	40.736	26.504	0.016	9.136
15/09/2025 23:00	14.103	368,762	42.380	26.136	0.017	4.360
16/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/09/2025 10:00	14.114	369,277	40.434	25.682	0.013	2.731
16/09/2025 11:00	14.147	387,751	41.565	26.913	0.009	1.865
16/09/2025 12:00	14.108	357,188	39.201	26.192	0.007	1.387
16/09/2025 13:00	14.314	303,393	25.454	27.431	0.007	2.550
16/09/2025 14:00	14.162	384,038	39.978	25.846	0.008	2.965
16/09/2025 15:00	14.161	401,179	42.545	26.532	0.008	3.095
16/09/2025 16:00	14.197	382,036	41.775	27.409	0.009	3.848
16/09/2025 17:00	14.182	386,830	41.998	27.825	0.009	4.349
16/09/2025 18:00	14.181	378,884	41.454	26.256	0.010	4.251
16/09/2025 19:00	14.164	376,657	43.416	26.254	0.011	8.229
16/09/2025 20:00	14.115	359,779	40.130	26.073	0.011	6.921
16/09/2025 21:00	14.103	358,194	40.571	25.778	0.011	4.184
16/09/2025 22:00	14.112	357,786	40.578	24.945	0.011	5.628
16/09/2025 23:00	14.101	359478.375	40.375	25.490	0.011	3.068
17/09/2025 00:00	14.181	382697.750	43.694	27.838	0.011	3.778
17/09/2025 01:00	14.109	380704.125	43.430	26.820	0.011	14.348
17/09/2025 02:00	14.104	371044.219	43.538	26.188	0.011	19.784
17/09/2025 03:00	14.100	375285.000	43.267	25.458	0.011	11.926
17/09/2025 04:00	14.095	375015.688	43.243	26.684	0.011	13.630
17/09/2025 05:00	14.102	370798.219	43.101	26.664	0.011	4.970
17/09/2025 06:00	14.116	369758.469	43.178	27.169	0.011	3.686
17/09/2025 07:00	14.131	375360.313	43.179	27.363	0.011	3.757
17/09/2025 08:00	14.145	377950.250	43.416	26.444	0.011	3.594
17/09/2025 09:00	14.175	378669.469	43.387	26.711	0.011	3.120
17/09/2025 10:00	14.151	384,953	44.852	30.142	0.011	2.909
17/09/2025 11:00	14.110	369,412	43.035	27.789	0.011	5.752
17/09/2025 12:00	14.052	346,128	39.296	24.068	0.011	4.163
17/09/2025 13:00	14.213	274,219	25.793	23.460	0.011	2.458
17/09/2025 14:00	14.055	359,107	39.965	22.035	0.011	2.153
17/09/2025 15:00	14.114	387,586	41.590	25.287	0.011	2.167
17/09/2025 16:00	14.149	388,211	41.736	26.077	0.011	4.165
17/09/2025 17:00	14.171	374,057	40.450	26.317	0.011	5.641
17/09/2025 18:00	14.135	370,157	40.837	26.456	0.011	5.861
17/09/2025 19:00	14.134	365,931	41.947	25.036	0.011	6.629
17/09/2025 20:00	14.115	353,159	40.414	26.175	0.012	10.244
17/09/2025 21:00	14.119	366,534	42.006	24.818	0.014	10.647
17/09/2025 22:00	14.124	369,064	42.196	26.182	0.016	17.005
17/09/2025 23:00	14.096	337,739	41.673	27.409	0.018	10.503
18/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
18/09/2025 10:00	14.161	362,924	39.219	25.498	0.016	2.333
18/09/2025 11:00	14.240	368,232	40.149	27.646	0.012	2.047

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSQ1_NOx@7%O2	HRSQ1_SOx@7%O2	HRSQ1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/09/2025 12:00	14.147	367,781	38.210	25.738	0.011	5.284
18/09/2025 13:00	14.299	292,936	26.195	25.588	0.011	2.123
18/09/2025 14:00	14.199	371,836	40.537	25.607	0.011	3.329
18/09/2025 15:00	14.186	348,841	39.107	26.900	0.011	2.507
18/09/2025 16:00	14.218	370,698	42.961	28.594	0.011	1.938
18/09/2025 17:00	14.215	373,920	42.907	28.857	0.010	3.342
18/09/2025 18:00	14.202	381,242	42.342	26.276	0.010	4.977
18/09/2025 19:00	14.193	382,569	41.813	27.895	0.010	6.064
18/09/2025 20:00	14.143	362,343	40.642	25.431	0.010	12.175
18/09/2025 21:00	14.144	350,024	41.880	26.259	0.009	13.312
18/09/2025 22:00	14.106	350,654	41.411	24.746	0.009	12.203
18/09/2025 23:00	14.073	358,102	41.368	26.625	0.009	16.502
19/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/09/2025 10:00	14.156	365,867	39.864	25.996	0.019	3.590
19/09/2025 11:00	14.165	370,168	38.762	26.760	0.015	2.600
19/09/2025 12:00	14.105	370,363	39.751	25.580	0.011	4.705
19/09/2025 13:00	14.295	303,015	25.478	24.558	0.010	4.201
19/09/2025 14:00	14.130	371,112	39.557	24.617	0.010	4.068
19/09/2025 15:00	14.156	375,377	40.107	26.292	0.011	4.211
19/09/2025 16:00	14.165	363,569	40.008	25.774	0.011	4.949
19/09/2025 17:00	14.153	364,326	40.024	25.554	0.011	6.766
19/09/2025 18:00	14.107	359,293	40.221	24.904	0.011	9.754
19/09/2025 19:00	14.165	358,537	40.939	26.058	0.011	10.832
19/09/2025 20:00	14.163	358,636	40.809	24.918	0.011	11.965
19/09/2025 21:00	14.142	363,500	40.656	25.852	0.011	12.728
19/09/2025 22:00	14.135	364,045	40.725	26.863	0.011	8.360
19/09/2025 23:00	14.157	377627.469	43.063	25.915	0.011	7.182
20/09/2025 00:00	14.151	386668.438	43.719	27.901	0.011	7.419
20/09/2025 01:00	14.150	383181.406	43.127	28.012	0.011	6.771
20/09/2025 02:00	14.149	383933.250	43.275	26.908	0.011	6.834
20/09/2025 03:00	14.148	380732.969	43.248	28.305	0.011	11.421
20/09/2025 04:00	14.147	375594.000	43.174	27.261	0.011	10.519
20/09/2025 05:00	14.146	371870.688	43.203	26.202	0.011	9.671
20/09/2025 06:00	14.145	371721.625	43.194	27.686	0.011	9.403
20/09/2025 07:00	14.143	374245.156	43.110	27.643	0.011	8.928
20/09/2025 08:00	14.147	376651.938	43.142	25.966	0.011	8.384
20/09/2025 09:00	14.143	361118.750	39.759	24.903	0.011	8.378
20/09/2025 10:00	14.067	364,153	39.588	25.738	0.012	7.344
20/09/2025 11:00	14.101	366,093	40.332	24.181	0.012	12.846
20/09/2025 12:00	14.134	370,433	38.684	25.098	0.012	3.548
20/09/2025 13:00	14.314	300,799	24.463	23.348	0.011	3.104
20/09/2025 14:00	14.077	364,831	38.573	23.596	0.011	3.908
20/09/2025 15:00	14.106	369,416	39.290	24.384	0.011	3.923
20/09/2025 16:00	14.163	378,188	41.623	24.961	0.010	9.279
20/09/2025 17:00	14.124	372,132	40.235	25.083	0.010	4.613
20/09/2025 18:00	14.142	366,366	39.604	24.449	0.010	4.197
20/09/2025 19:00	14.169	358,131	39.800	24.834	0.010	10.413
20/09/2025 20:00	14.114	362,210	39.984	24.628	0.009	10.693
20/09/2025 21:00	14.140	363,549	41.171	24.111	0.011	10.632
20/09/2025 22:00	14.131	360,330	40.466	25.246	0.014	10.639
20/09/2025 23:00	14.094	363,229	40.939	24.504	0.016	10.276
21/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSQ1_NOx@7%O2	HRSQ1_SOx@7%O2	HRSQ1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/09/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/09/2025 19:00	14.155	367,218	40.257	29.852	0.306	8.896
21/09/2025 20:00	14.116	349,184	39.418	25.035	0.012	10.471
21/09/2025 21:00	14.134	366,324	41.052	25.612	0.012	9.766
21/09/2025 22:00	14.092	361,395	41.256	25.756	0.012	8.732
21/09/2025 23:00	13.927	302901.094	34.308	22.310	0.011	10.810
22/09/2025 00:00	13.960	296771.438	32.891	22.178	0.011	8.732
22/09/2025 01:00	13.966	306409.500	33.314	22.364	0.011	4.513
22/09/2025 02:00	13.952	308231.844	32.904	22.961	0.011	2.855
22/09/2025 03:00	13.990	324469.438	35.813	22.800	0.010	4.815
22/09/2025 04:00	13.976	301732.906	33.039	21.176	0.010	6.387
22/09/2025 05:00	13.957	302447.219	33.526	19.979	0.009	6.678
22/09/2025 06:00	13.923	306968.594	35.048	19.566	0.008	7.845
22/09/2025 07:00	13.976	310879.188	35.679	21.325	0.007	8.570
22/09/2025 08:00	13.978	300765.438	32.384	21.587	0.006	7.082
22/09/2025 09:00	14.044	334490.469	36.389	22.994	0.005	5.477
22/09/2025 10:00	14.134	380,703	40.688	25.459	0.005	5.072
22/09/2025 11:00	0.000	384,648	40.104	0.000	0.536	0.940
22/09/2025 12:00	14.212	388,875	40.340	28.476	0.011	2.497
22/09/2025 13:00	14.263	310,518	27.926	26.628	0.010	2.382
22/09/2025 14:00	14.229	384,530	41.436	27.395	0.010	2.537
22/09/2025 15:00	14.273	373,353	40.889	29.991	0.010	1.471
22/09/2025 16:00	14.266	367,345	40.198	32.259	0.009	1.327
22/09/2025 17:00	14.184	370,979	40.443	28.428	0.009	2.105
22/09/2025 18:00	14.155	366,211	39.798	30.006	0.009	3.647
22/09/2025 19:00	14.171	363,664	40.785	26.809	0.008	6.122
22/09/2025 20:00	14.119	352,608	39.970	27.537	0.008	7.958
22/09/2025 21:00	14.133	356,042	40.733	26.581	0.009	8.983
22/09/2025 22:00	14.143	359,873	41.645	26.811	0.010	10.621
22/09/2025 23:00	14.095	353,730	40.146	25.702	0.010	5.490
23/09/2025 00:00	13.942	329,527	36.144	22.950	0.011	2.568
23/09/2025 01:00	14.059	347,534	37.477	23.059	0.011	7.065
23/09/2025 02:00	14.016	330,967	37.057	24.394	0.012	5.738
23/09/2025 03:00	14.069	325,069	38.152	23.476	0.011	6.284
23/09/2025 04:00	14.020	315,980	35.399	24.325	0.010	6.366
23/09/2025 05:00	14.010	317,722	35.700	24.801	0.012	7.625
23/09/2025 06:00	14.026	329,724	37.382	24.762	0.015	6.294
23/09/2025 07:00	14.021	321,906	34.925	25.426	0.016	7.958
23/09/2025 08:00	13.961	309,184	33.301	23.383	0.013	8.146
23/09/2025 09:00	14.021	320,470	32.920	22.367	0.013	6.358
23/09/2025 10:00	14.013	351,957	37.079	23.877	0.012	4.499
23/09/2025 11:00	14.089	366,962	37.727	25.156	0.012	5.656
23/09/2025 12:00	14.029	363,524	38.964	24.929	0.012	21.766
23/09/2025 13:00	14.244	290,948	25.595	23.442	0.011	8.456
23/09/2025 14:00	14.071	363,372	40.395	25.942	0.032	7.402
23/09/2025 15:00	14.113	365,957	40.312	25.202	0.012	6.330
23/09/2025 16:00	14.129	370,872	40.139	25.895	0.011	7.132
23/09/2025 17:00	14.146	364,968	38.885	25.569	0.012	10.782
23/09/2025 18:00	14.152	369,595	39.997	26.700	0.017	5.354
23/09/2025 19:00	14.133	358,996	39.504	26.666	0.016	7.490
23/09/2025 20:00	14.100	352,160	39.095	26.014	0.013	10.638
23/09/2025 21:00	14.098	366,040	40.455	26.818	0.008	13.173
23/09/2025 22:00	14.156	372,678	40.280	27.149	0.008	7.733
23/09/2025 23:00	14.155	376,805	40.870	27.314	0.007	6.682
24/09/2025 00:00	13.956	333,435	35.045	22.013	0.009	5.975
24/09/2025 01:00	14.089	360,519	38.429	24.755	0.015	9.408
24/09/2025 02:00	14.039	356,152	37.268	25.024	0.022	9.428
24/09/2025 03:00	14.045	357,667	38.923	24.597	0.009	14.255
24/09/2025 04:00	13.969	326,750	36.170	23.530	0.006	12.862
24/09/2025 05:00	14.002	329,988	36.292			

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSQ1_NOx@7%O2	HRSQ1_SOx@7%O2	HRSQ1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/09/2025 08:00	13.989	328,380	34.444	23.474	0.014	9.283
24/09/2025 09:00	14.001	335,206	35.900	25.275	0.014	6.923
24/09/2025 10:00	14.086	369,004	40.007	25.099	0.011	5.117
24/09/2025 11:00	14.165	382,830	40.577	26.697	0.011	2.984
24/09/2025 12:00	14.105	356,210	37.181	23.628	0.012	5.465
24/09/2025 13:00	14.368	291,670	23.800	32.371	0.012	4.095
24/09/2025 14:00	14.211	379,150	41.949	26.134	0.012	3.483
24/09/2025 15:00	14.125	356,162	38.669	25.224	0.012	4.506
24/09/2025 16:00	14.117	365,095	39.166	25.427	0.013	3.722
24/09/2025 17:00	14.117	358,163	38.118	25.177	0.013	7.267
24/09/2025 18:00	14.191	367,941	40.646	26.529	0.014	2.097
24/09/2025 19:00	14.167	345,930	40.458	27.019	0.016	2.772
24/09/2025 20:00	14.121	330,795	38.656	25.104	0.018	6.374
24/09/2025 21:00	14.108	353,951	39.656	26.576	0.007	6.223
24/09/2025 22:00	14.140	342,469	39.171	26.650	0.007	6.885
24/09/2025 23:00	14.130	365,619	40.233	28.006	0.007	3.671
25/09/2025 00:00	14.036	322,407	35.131	24.771	0.008	2.854
25/09/2025 01:00	14.037	334,628	37.330	25.607	0.008	5.254
25/09/2025 02:00	14.057	342,595	37.026	24.679	0.008	5.601
25/09/2025 03:00	14.012	330,488	34.945	24.133	0.009	6.785
25/09/2025 04:00	13.976	326,338	34.911	22.354	0.009	14.749
25/09/2025 05:00	13.965	319,376	34.995	23.916	0.009	10.421
25/09/2025 06:00	14.015	331,020	36.744	23.100	0.010	18.077
25/09/2025 07:00	13.991	325,717	35.433	23.695	0.010	12.478
25/09/2025 08:00	13.966	311,596	32.711	19.751	0.011	7.664
25/09/2025 09:00	13.983	309,910	33.748	23.473	0.011	5.271
25/09/2025 10:00	14.105	348,590	38.138	24.608	0.011	3.042
25/09/2025 11:00	14.124	342,475	38.260	26.479	0.011	2.586
25/09/2025 12:00	14.130	348,034	37.461	25.583	0.011	2.037
25/09/2025 13:00	14.442	266,279	22.844	41.837	0.011	2.995
25/09/2025 14:00	14.132	357,798	38.728	24.653	0.011	2.601
25/09/2025 15:00	14.132	376,686	40.772	23.841	0.011	2.707
25/09/2025 16:00	14.147	354,136	38.845	25.603	0.011	5.260
25/09/2025 17:00	14.142	364,271	38.466	25.050	0.011	5.722
25/09/2025 18:00	14.097	366,124	38.570	26.376	0.010	8.025
25/09/2025 19:00	14.080	358,401	38.602	25.480	0.010	6.286
25/09/2025 20:00	14.087	350,489	38.665	25.098	0.009	7.163
25/09/2025 21:00	14.165	367,703	40.117	27.266	0.009	7.531
25/09/2025 22:00	14.119	361,665	39.033	26.811	0.008	6.975
25/09/2025 23:00	14.100	366,924	40.294	26.247	0.008	11.145
26/09/2025 00:00	13.893	319,415	34.345	23.308	0.008	13.609
26/09/2025 01:00	14.010	328,902	35.118	23.656	0.008	10.013
26/09/2025 02:00	13.994	323,442	35.637	25.276	0.009	9.511
26/09/2025 03:00	13.989	329,410	36.340	22.660	0.009	7.599
26/09/2025 04:00	13.974	313,107	34.705	24.139	0.010	11.007
26/09/2025 05:00	13.976	313,282	35.133	23.278	0.010	9.663
26/09/2025 06:00	14.000	323,330	35.688	23.399	0.011	11.239
26/09/2025 07:00	13.955	309,385	34.146	23.251	0.011	8.718
26/09/2025 08:00	14.062	307,934	31.973	20.945	0.011	8.330
26/09/2025 09:00	14.122	306,242	30.676	26.036	0.011	3.688
26/09/2025 10:00	14.083	348,183	40.026	24.936	0.011	3.698
26/09/2025 11:00	14.074	345,294	38.018	25.159	0.010	4.625
26/09/2025 12:00	14.040	329,688	34.621	24.684	0.010	4.621
26/09/2025 13:00	14.460	288,345	22.428	42.548	0.010	4.485
26/09/2025 14:00	14.022	348,152	36.242	23.666	0.010	4.316
26/09/2025 15:00	14.096	341,588	36.187	24.314	0.009	2.152
26/09/2025 16:00	14.158	348,890	37.710	25.949	0.009	1.530
26/09/2025 17:00	14.109	334,403	37.146	25.231	0.009	2.006
26/09/2025 18:00	14.064	343,056	37.055	24.691	0.010	4.934
26/09/2025 19:00	14.047	340,240	36.395	24.397	0.010	8.307
26/09/2025 20:00	14.038	341,761	36.328	25.359	0.010	10.406
26/09/2025 21:00	14.055	339,651	36.284	23.667	0.010	13.359
26/09/2025 22:00	14.057	335,701	36.856	24.793	0.010	8.764
26/09/2025 23:00	14.050	339,879	37.462	24.572	0.010	8.359
27/09/2025 00:00	13.924	316,371	32.541	21.100	0.011	13.058
27/09/2025 01:00	13.952	317,225	34.217	23.868	0.011	9.718
27/09/2025 02:00	13.999	309,732	34.858	23.357	0.011	5.076
27/09/2025 03:00	13.974	290,727	32.975	22.874	0.012	11.124
27/09/2025 04:00	14.011	286,750	31.842	24.446	0.012	13.784
27/09/2025 05:00	13.994	280,831	32.653	22.188	0.012	10.013

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSQ12  
1/Sep/25 00:00 - 30/Sep/25 24:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/09/2025 06:00	13.960	280,948	32.566	22.090	0.012	9.511
27/09/2025 07:00	13.961	274,781	33.045	22.200	0.013	7.559
27/09/2025 08:00	14.111	258,354	29.182	27.613	0.013	11.007
27/09/2025 09:00	14.027	264,851	30.766	28.436	0.012	9.857
27/09/2025 10:00	13.975	325,569	39.287	23.282	0.012	5.279
27/09/2025 11:00	14.026	323,349	38.202	25.440	0.012	3.052
27/09/2025 12:00	13.990	300,852	35.651	23.797	0.012	4.552
27/09/2025 13:00	14.370	246,255	24.501	41.679	0.012	3.305
27/09/2025 14:00	14.047	315,622	37.069	24.106	0.011	2.971
27/09/2025 15:00	14.115	327,184	38.475	25.731	0.011	2.322
27/09/2025 16:00	14.130	318,072	37.246	25.485	0.011	1.798
27/09/2025 17:00	14.132	325,212	38.689	26.478	0.011	2.256
27/09/2025 18:00	14.108	320,071	37.220	26.828	0.012	2.859
27/09/2025 19:00	14.072	316,720	37.157	24.883	0.012	3.108
27/09/2025 20:00	14.069	308,049	36.618	24.890	0.012	5.616
27/09/2025 21:00	14.031	316,335	36.961	24.205	0.008	6.697
27/09/2025 22:00	14.000	306,015	37.153	25.466	0.008	11.606
27/09/2025 23:00	13.988	298,936	37.270	25.212	0.008	11.539
28/09/2025 00:00	14.102	340,582	42.930	27.551	0.008	10.780
28/09/2025 01:00	14.119	343,397	43.243	27.144	0.007	13.885
28/09/2025 02:00	14.109	346,010	43.274	28.005	0.007	11.031
28/09/2025 03:00	14.107	345,556	43.328	28.075	0.007	8.371
28/09/2025 04:00	14.107	345,302	43.328	27.668	0.007	8.447
28/09/2025 05:00	14.106	346,188	43.308	27.459	0.007	10.867
28/09/2025 06:00	14.105	342,535	43.250	28.325	0.007	15.135
28/09/2025 07:00	14.113	351,149	43.348	27.416	0.006	9.490
28/09/2025 08:00	14.132	349,189	43.261	27.136	0.006	7.711
28/09/2025 09:00	14.151	352,844	42.950	28.173	0.011	6.427
28/09/2025 10:00	14.170	366,348	43.267	26.838	0.011	4.182
28/09/2025 11:00	14.221	373,036	43.062	29.200	0.011	3.645
28/09/2025 12:00	14.249	381,353	43.230	29.516	0.011	2.871
28/09/2025 13:00	14.239	380,910	43.202	29.353	0.011	2.832
28/09/2025 14:00	14.229	382,710	43.216	28.314	0.011	2.934
28/09/2025 15:00	14.220	385,533	43.287	28.167	0.011	2.677
28/09/2025 16:00	14.207	399,151	43.249	28.801	0.011	1.468
28/09/2025 17:00	14.193	390,788	43.286	27.803	0.011	2.911
28/09/2025 18:00	14.080	366,400	38.996	26.135	0.010	6.037
28/09/2025 19:00	14.000	330,371	35.090	23.073	0.010	11.162
28/09/2025 20:00	14.007	327,863	35.225	23.677	0.009	14.633
28/09/2025 21:00	14.013	319,853	35.101	22.648	0.009	10.976
28/09/2025 22:00	14.000	313,534	35.143	22.516	0.008	13.633
28/09/2025 23:00	14.026	294800.438	29.808	24.335	0.007	22.883
29/09/2025 00:00	14.129	301026.531	29.747	26.027	0.007	17.197
29/09/2025 01:00	14.066	299968.625	28.528	23.893	0.007	15.474
29/09/2025 02:00	14.102	298409.750	29.733	24.769	0.008	15.042
29/09/2025 03:00	14.160	300778.438	28.457	26.063	0.009	9.114
29/09/2025 04:00	14.136	295761.375	28.399	26.017	0.011	11.642
29/09/2025 05:00	14.052	305758.156	30.254	21.089	0.012	11.655
29/09/2025 06:00	14.099	305244.875	29.541	27.228	0.013	13.704
29/09/2025 07:00	14.164	303264.531	28.404	28.793	0.014	8.926
29/09/2025 08:00	14.179	306973.844	28.232	26.555	0.018	7.224
29/09/2025 09:00	14.114	320887.531	30.227	27.161	0.017	4.231
29/09/2025 10:00	13.990	366191.031	36.677	22.266	0.015	4.558
29/09/2025 11:00	14.066	365,185	36.893	23.603	0.014	4.672
29/09/2025 12:00	13.997	347,087	34.290	22.484	0.013	4.281
29/09/2025 13:00	14.465	303,078	22.944	40.084	0.012	4.037
29/09/2025 14:00	14.055	352,175	36.375	23.032	0.011	4.772
29/09/2025 15:00	14.092	352,064	37.625	24.820	0.010	5.773
29/09/2025 16:00	14.077	340,751	37.084	23.577	0.009	6.750
29/09/2025 17:00	14.004	335,532	36.462	22.870	0.009	10.293
29/09/2025 18:00	14.077	339,783	37.445	24.540	0.010	10.331
29/09/2025 19:00	14.038	334,136	36.385	23.910	0.010	11.275
29/09/2025 20:00	14.035	329,600	35.694	23.557	0.011	12.876
29/09/2025 21:00	14.031	347,841	37.313	23.785	0.012	10.605
29/09/2025 22:00	14.014	332,904	36.091	25.048	0.012	10.874
29/09/2025 23:00	14.049	332375.125	36.199	24.203	0.013	9.114
30/09/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/09/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/09/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/09/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

GNLL2  
HRSG12  
1/Sep/25 00:00 - 30/Sep/25 24:59

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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

	Actual Operation Condition			Emission Concentration for Standardization Comparison		
Date & Time	O2	FLOW @ 1ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SO2@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/10/2025 00:00	15.045	351,905	43.488	17.889	0.001	5.065
01/10/2025 01:00	15.041	353,710	43.343	18.240	0.001	4.509
01/10/2025 02:00	15.036	350,814	43.268	17.918	0.001	4.392
01/10/2025 03:00	15.032	353,483	43.403	18.242	0.001	4.693
01/10/2025 04:00	15.028	350,234	43.492	18.757	0.001	6.218
01/10/2025 05:00	15.023	348,138	43.376	18.163	0.001	5.065
01/10/2025 06:00	15.019	351,795	43.193	20.511	0.001	14,183
01/10/2025 07:00	15.014	349,132	43.277	18.972	0.001	5,772
01/10/2025 08:00	15.010	347,955	43.235	19.468	0.001	5,304
01/10/2025 09:00	14.987	374,526	47.116	23.017	0.001	5,667
01/10/2025 10:00	14.890	306,732	37.220	17.427	0.001	4,874
01/10/2025 11:00	14.903	298,942	35.700	14.659	0.003	4.883
01/10/2025 12:00	14.954	300,920	36.022	17.202	0.009	4.662
01/10/2025 13:00	15.428	230,670	22.012	50.133	0.007	5.439
01/10/2025 14:00	15.012	326,073	38.747	19.107	0.005	4.718
01/10/2025 15:00	15.013	316,613	37.729	17.934	0.003	5.038
01/10/2025 16:00	15.002	323,524	38.662	23.629	0.002	4.958
01/10/2025 17:00	15.063	339,862	40.587	17.471	0.000	5.079
01/10/2025 18:00	15.021	323,375	38.662	18.426	0.000	4.930
01/10/2025 19:00	15.002	337,229	40.920	22.387	0.000	5.845
01/10/2025 20:00	14.982	321,882	39.108	15.895	0.001	5.724
01/10/2025 21:00	14.983	328,350	39.847	15.828	0.002	5.370
01/10/2025 22:00	14.911	322,244	38.884	15.601	0.003	4.916
01/10/2025 23:00	14.935	341004.250	41.608	16.253	0.004	4.689
02/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/10/2025 10:00	14.967	323,353	38.332	22.719	0.005	5.153
02/10/2025 11:00	15.036	319,229	38.047	18.944	0.004	5.308
02/10/2025 12:00	15.038	315,394	37.727	21.410	0.004	5.233
02/10/2025 13:00	15.244	245,718	25.215	39.058	0.004	4.827
02/10/2025 14:00	15.097	352,142	42.068	19.189	0.004	4.962
02/10/2025 15:00	15.060	343,682	41.392	26.696	0.003	4.658
02/10/2025 16:00	14.999	337,980	41.452	22.289	0.003	5.997
02/10/2025 17:00	14.942	331,601	40.315	22.034	0.003	6.312
02/10/2025 18:00	14.984	342,696	41.988	29.454	0.003	5.718
02/10/2025 19:00	14.995	339,743	41.436	21.361	0.003	5.233
02/10/2025 20:00	14.939	325,890	39.713	20.285	0.003	5.171
02/10/2025 21:00	14.986	334,971	40.398	21.121	0.003	5.489
02/10/2025 22:00	15.001	330,104	40.376	22.101	0.003	5.219
02/10/2025 23:00	15.024	354607.531	43.389	24.271	0.004	5.467
03/10/2025 00:00	14.916	373145.500	46.524	29.647	0.004	5.650
03/10/2025 01:00	15.028	352735.500	43.280	24.492	0.003	5.687
03/10/2025 02:00	15.031	350115.438	43.364	26.411	0.003	5.284
03/10/2025 03:00	15.035	350121.031	43.366	28.877	0.002	5.330
03/10/2025 04:00	15.039	351317.938	43.337	29.610	0.002	5.258
03/10/2025 05:00	15.043	351549.031	43.335	25.331	0.001	5.654
03/10/2025 06:00	15.047	348486.438	43.356	22.646	0.001	5.488
03/10/2025 07:00	15.051	349467.375	43.340	21.320	0.000	5.685
03/10/2025 08:00	15.058	350450.875	43.203	19.135	0.000	5.467
03/10/2025 09:00	15.010	372587.656	45.829	12.778	0.000	6.005
03/10/2025 10:00	15.024	327,579	39.564	8.792	0.000	5.543
03/10/2025 11:00	15.040	315,229	38.026	16.764	0.000	5.206
03/10/2025 12:00	15.016	311,993	37.347	9.237	0.000	5.064
03/10/2025 13:00	15.068	258,143	28.060	23.132	0.000	4.229
03/10/2025 14:00	15.107	347,943	41.901	12.249	0.000	5.694
03/10/2025 15:00	15.044	353,413	43.369	18.368	0.001	6.259
03/10/2025 16:00	15.052	348,071	41.033	21.225	0.001	5.668
03/10/2025 17:00	15.019	341,666	41.151	18.699	0.001	5.579
03/10/2025 18:00	15.018	337,948	40.984	21.536	0.001	4.439
03/10/2025 19:00	14.978	334,457	40.683	21.663	0.001	4.507
03/10/2025 20:00	15.013	335,803	40.634	27.495	0.001	4.804
03/10/2025 21:00	15.011	338,729	41.453	24.112	0.002	4.855

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/10/2025 22:00	14.970	337,311	41.210	23.314	0.002	5.236
03/10/2025 23:00	15.013	335885.875	41.337	24.626	0.002	4.687
04/10/2025 00:00	15.016	373277.719	46.091	27.143	0.002	5.538
04/10/2025 01:00	15.037	352067.781	43.418	22.912	0.002	6.116
04/10/2025 02:00	15.039	353216.125	43.506	21.146	0.002	7.018
04/10/2025 03:00	15.040	349759.344	43.381	20.752	0.002	5.330
04/10/2025 04:00	15.042	351811.438	43.383	20.792	0.001	5.030
04/10/2025 05:00	15.043	350974.531	43.429	20.296	0.001	5.285
04/10/2025 06:00	15.045	350095.531	43.364	21.196	0.001	5.874
04/10/2025 07:00	15.046	350944.813	43.308	21.852	0.001	5.518
04/10/2025 08:00	15.048	352306.844	43.340	27.238	0.001	5.151
04/10/2025 09:00	15.052	374991.813	46.940	28.232	0.001	7.625
04/10/2025 10:00	14.956	327,666	39.705	22.569	0.001	4.926
04/10/2025 11:00	14.937	305,492	36.717	25.081	0.001	4.930
04/10/2025 12:00	14.936	317,117	37.927	17.992	0.001	5.529
04/10/2025 13:00	15.359	231,807	22.373	48.202	0.001	5.457
04/10/2025 14:00	15.015	315,221	37.937	25.274	0.001	4.895
04/10/2025 15:00	15.055	329,591	39.697	7.164	0.001	5.094
04/10/2025 16:00	15.128	353,003	41.256	15.150	0.001	5.286
04/10/2025 17:00	15.082	331,893	39.590	12.552	0.001	5.231
04/10/2025 18:00	15.080	350,297	42.158	16.877	0.001	5.514
04/10/2025 19:00	15.006	335,697	40.983	21.418	0.001	5.720
04/10/2025 20:00	15.014	336,807	40.745	29.751	0.000	5.693
04/10/2025 21:00	15.010	352,036	42.502	21.256	0.000	5.428
04/10/2025 22:00	14.999	343,205	41.642	23.887	0.000	5.330
04/10/2025 23:00	14.993	335,690	40.601	25.425	0.000	4.372
05/10/2025 00:00	14.917	268,157	30.019	35.270	0.000	4.044
05/10/2025 01:00	14.867	298,526	35.672	18.281	0.000	4.737
05/10/2025 02:00	14.882	312,564	37.014	19.148	0.000	4.652
05/10/2025 03:00	14.905	313,169	37.559	18.879	0.000	4.397
05/10/2025 04:00	14.894	296,933	35.391	19.455	0.000	4.665
05/10/2025 05:00	14.883	305,079	36.976	25.297	0.001	4.783
05/10/2025 06:00	14.841	286,126	34.577	24.560	0.001	4.529
05/10/2025 07:00	14.845	283,375	33.863	19.589	0.001	4.628
05/10/2025 08:00	14.991	264,036	29.404	31.269	0.001	5.129
05/10/2025 09:00	14.876	281,941	32.723	19.911	0.001	4.939
05/10/2025 10:00	14.888	284,859	34.126	27.344	0.001	5.409
05/10/2025 11:00	14.844	285,639	33.854	19.226	0.001	4.340
05/10/2025 12:00	14.855	275,947	32.565	17.131	0.001	4.636
05/10/2025 13:00	14.847	278,372	32.770	20.181	0.001	4.438
05/10/2025 14:00	14.798	284,159	34.152	18.953	0.001	4.784
05/10/2025 15:00	14.890	278,720	32.340	17.734	0.000	5.217
05/10/2025 16:00	14.909	288,659	33.876	16.233	0.000	4.891
05/10/2025 17:00	14.909	274,423	32.280	17.568	0.001	4.730
05/10/2025 18:00	14.889	278,468	32.621	22.282	0.001	4.347
05/10/2025 19:00	15.055	374,461	45.776	26.152	0.001	5.563
05/10/2025 20:00	15.057	361,859	44.071	32.059	0.001	5.243
05/10/2025 21:00	15.078	374,304	45.914	27.886	0.001	5.962
05/10/2025 22:00	15.026	373,610	46.127	23.938	0.001	6.366
05/10/2025 23:00	15.017	373087.281	46.152	25.756	0.002	6.965
06/10/2025 00:00	14.886	275628.688	32.445	22.639	0.002	5.031
06/10/2025 01:00	14.843	288628.438	34.434	24.594	0.002	4.863
06/10/2025 02:00	14.880	284977.063	34.281	23.510	0.002	4.854
06/10/2025 03:00	14.829	278444.063	33.981	23.369	0.002	4.830
06/10/2025 04:00	14.990	258453.266	28.932	38.044	0.002	5.857
06/10/2025 05:00	14.962	261952.984	29.884	40.084	0.002	4.710
06/10/2025 06:00	14.892	272034.813	32.063	21.400	0.002	4.384
06/10/2025 07:00	14.885	277613.813	33.140	20.890	0.001	4.761
06/10/2025 08:00	14.888	275555.875	32.270	26.210	0.001	4.892
06/10/2025 09:00	14.922	270217.469	30.503	33.925	0.001	4.778
06/10/2025 10:00	15.039	371,427	45.304	24.572	0.001	6.414
06/10/2025 11:00	15.047	369,407	44.889	21.574	0.001	6.281
06/10/2025 12:00	15.103	352,132	42.266	10.725	0.000	6.044
06/10/2025 13:00	15.050	264,491	29.119	13.899	0.000	5.345
06/10/2025 14:00	15.066	368,624	44.853	25.430	0.000	5.911
06/10/2025 15:00	15.080	371,197	46.077	30.506	0.000	5.392
06/10/2025 16:00	15.090	370,466	45.013	28.327	0.000	5.448
06/10/2025 17:00	15.068	370,518	45.047	28.075	0.000	5.602
06/10/2025 18:00	15.062	370,837	45.204	32.015	0.000	5.924
06/10/2025 19:00	15.055	371,908	45.516	29.188	0.000	6.012

Site Name:  
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Periodically:

GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/10/2025 20:00	15.080	372,690	45.312	23.730	0.000	6.288
06/10/2025 21:00	15.039	371,484	45.807	32.856	0.000	6.420
06/10/2025 22:00	15.039	377,305	46.146	24.879	0.000	6.187
06/10/2025 23:00	14.996	374,286	45.939	25.828	0.000	6.636
07/10/2025 00:00	14.918	300,255	36.046	21.114	0.000	5.907
07/10/2025 01:00	14.900	303,090	36.122	17.606	0.000	9.996
07/10/2025 02:00	14.885	294,854	35.205	20.727	0.000	6.314
07/10/2025 03:00	14.878	290,942	35.228	20.568	0.000	4.938
07/10/2025 04:00	14.891	296,302	35.143	20.632	0.000	4.888
07/10/2025 05:00	14.893	274,771	32.713	22.719	0.000	5.188
07/10/2025 06:00	14.908	272,947	31.740	19.805	0.000	4.980
07/10/2025 07:00	14.918	272,209	31.299	27.816	0.000	5.247
07/10/2025 08:00	14.996	265,931	30.173	31.505	0.000	4.773
07/10/2025 09:00	15.023	261,602	28.783	29.377	0.000	5.600
07/10/2025 10:00	15.120	374,540	44.537	13.916	0.000	6.098
07/10/2025 11:00	15.125	360,398	43.407	9.555	0.001	6.049
07/10/2025 12:00	15.107	346,740	41.021	8.147	0.001	5.476
07/10/2025 13:00	14.910	270,972	32.039	12.623	0.002	4.455
07/10/2025 14:00	15.063	370,653	45.792	26.363	0.002	5.616
07/10/2025 15:00	15.063	369,921	45.028	21.015	0.003	5.773
07/10/2025 16:00	15.048	369,768	45.239	21.900	0.003	5.891
07/10/2025 17:00	15.034	373,445	45.333	24.231	0.002	6.153
07/10/2025 18:00	15.020	372,511	45.739	26.307	0.002	6.007
07/10/2025 19:00	15.069	372,632	45.788	28.090	0.002	6.226
07/10/2025 20:00	15.065	359,297	43.695	23.057	0.001	4.871
07/10/2025 21:00	15.090	372,073	45.643	27.066	0.001	5.967
07/10/2025 22:00	15.052	360,263	44.244	22.234	0.000	5.360
07/10/2025 23:00	15.104	371,478	44.951	31.842	0.000	5.579
08/10/2025 00:00	14.812	274,657	32.224	27.086	0.000	4.869
08/10/2025 01:00	14.920	282,658	33.648	28.485	0.000	5.207
08/10/2025 02:00	14.938	273,310	32.180	31.199	0.000	5.534
08/10/2025 03:00	14.850	279,276	33.283	23.991	0.000	5.931
08/10/2025 04:00	14.936	268,307	31.249	29.316	0.000	5.697
08/10/2025 05:00	14.919	268,200	31.413	26.117	0.000	5.788
08/10/2025 06:00	14.921	266,436	31.227	29.023	0.000	5.090
08/10/2025 07:00	14.933	265,263	30.631	33.607	0.000	5.066
08/10/2025 08:00	15.017	261,700	29.113	37.198	0.000	5.027
08/10/2025 09:00	14.958	265,847	30.746	28.694	0.000	5.202
08/10/2025 10:00	15.052	342,039	41.521	11.458	0.000	5.764
08/10/2025 11:00	15.122	351,161	42.286	13.880	0.000	5.856
08/10/2025 12:00	15.082	339,105	40.865	10.392	0.000	5.294
08/10/2025 13:00	15.067	264,520	29.213	18.010	0.000	5.098
08/10/2025 14:00	15.107	366,498	44.477	14.386	0.000	5.685
08/10/2025 15:00	15.130	356,505	43.122	13.136	0.000	5.190
08/10/2025 16:00	15.150	358,425	43.264	11.503	0.000	4.795
08/10/2025 17:00	15.123	358,761	43.406	14.299	0.001	4.945
08/10/2025 18:00	15.047	353,554	43.045	17.351	0.001	5.168
08/10/2025 19:00	15.020	350,155	43.117	22.440	0.002	4.575
08/10/2025 20:00	15.018	357,301	43.759	21.320	0.002	5.007
08/10/2025 21:00	15.022	359,515	43.647	25.340	0.003	5.645
08/10/2025 22:00	14.989	350,673	42.858	21.572	0.003	5.323
08/10/2025 23:00	15.047	363,491	44.739	27.340	0.004	5.819
09/10/2025 00:00	14.802	290,813	34.643	22.189	0.004	5.001
09/10/2025 01:00	14.867	289,711	34.744	18.858	0.003	4.698
09/10/2025 02:00	14.862	295,015	35.643	16.723	0.003	4.954
09/10/2025 03:00	14.831	285,320	34.428	18.691	0.003	4.910
09/10/2025 04:00	14.889	287,019	34.899	20.923	0.003	5.063
09/10/2025 05:00	14.855	286,581	34.349	18.130	0.003	4.824
09/10/2025 06:00	14.839	280,573	33.500	16.253	0.003	5.729
09/10/2025 07:00	14.863	284,681	34.214	18.784	0.003	7.417
09/10/2025 08:00	14.938	270,226	31.043	25.254	0.002	6.153
09/10/2025 09:00	14.924	277,338	32.774	7.975	0.002	5.045
09/10/2025 10:00	15.102	370,630	45.058	14.503	0.002	6.691
09/10/2025 11:00	15.152	367,250	44.043	13.313	0.001	6.258
09/10/2025 12:00	15.120	361,336	43.330	15.484	0.001	6.169
09/10/2025 13:00	14.987	270,285	31.577	7.486	0.001	4.959
09/10/2025 14:00	15.112	370,658	44.597	23.718	0.000	5.747
09/10/2025 15:00	15.115	350,299	42.512	12.849	0.000	5.732
09/10/2025 16:00	15.063	370,200	45.010	22.051	0.000	6.331
09/10/2025 17:00	15.110	368,372	44.500	19.219	0.000	5.170

Site Name:  
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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/10/2025 18:00	15.086	364,442	44.377	20.433	0.000	5.678
09/10/2025 19:00	15.067	368,187	44.383	20.217	0.000	5.321
09/10/2025 20:00	15.056	362,937	44.424	15.244	0.001	5.656
09/10/2025 21:00	15.040	365,462	44.424	15.781	0.001	5.641
09/10/2025 22:00	15.030	366,463	44.718	15.566	0.001	5.743
09/10/2025 23:00	15.048	371,551	44.930	17.149	0.001	5.714
10/10/2025 00:00	14.868	300,504	35.673	12.922	0.001	4.858
10/10/2025 01:00	14.894	306,439	36.849	4.337	0.001	5.153
10/10/2025 02:00	14.897	311,208	37.399	15.888	0.001	5.704
10/10/2025 03:00	14.799	277,556	32.889	14.121	0.001	8.926
10/10/2025 04:00	14.831	276,392	32.831	7.468	0.001	5.504
10/10/2025 05:00	14.859	284,383	33.784	8.440	0.001	5.291
10/10/2025 06:00	14.832	282,705	33.773	12.379	0.001	5.742
10/10/2025 07:00	14.917	281,989	33.236	14.896	0.001	5.404
10/10/2025 08:00	14.872	272,380	32.139	11.963	0.001	5.168
10/10/2025 09:00	14.873	283,867	33.567	13.872	0.001	5.385
10/10/2025 10:00	15.083	372,704	45.066	22.014	0.001	6.507
10/10/2025 11:00	15.121	368,719	45.050	23.059	0.001	6.115
10/10/2025 12:00	15.108	363,423	44.288	20.057	0.001	6.062
10/10/2025 13:00	15.039	272,338	30.745	21.894	0.002	4.995
10/10/2025 14:00	15.012	372,886	45.846	23.064	0.002	5.489
10/10/2025 15:00	15.070	360,422	43.709	21.872	0.002	6.149
10/10/2025 16:00	14.994	341,986	41.513	19.910	0.002	5.765
10/10/2025 17:00	15.008	360,239	43.869	18.430	0.002	7.236
10/10/2025 18:00	14.989	347,896	42.086	17.444	0.002	5.945
10/10/2025 19:00	15.014	338,097	41.544	17.714	0.002	5.551
10/10/2025 20:00	14.998	350,190	42.858	17.895	0.002	5.828
10/10/2025 21:00	15.050	350,175	43.065	18.135	0.002	5.933
10/10/2025 22:00	15.050	351,759	42.871	19.210	0.002	5.443
10/10/2025 23:00	15.030	353,760	43.725	19.040	0.002	5.541
11/10/2025 00:00	14.857	290,333	34.417	16.208	0.001	5.380
11/10/2025 01:00	14.897	285,143	33.581	15.204	0.001	5.432
11/10/2025 02:00	14.879	272,519	31.949	17.356	0.001	5.245
11/10/2025 03:00	14.890	277,839	32.899	14.559	0.001	5.131
11/10/2025 04:00	14.888	272,399	32.450	15.730	0.000	4.679
11/10/2025 05:00	14.914	275,994	32.329	13.783	0.000	5.499
11/10/2025 06:00	14.925	270,957	31.371	24.328	0.000	5.731
11/10/2025 07:00	14.916	262,947	29.734	22.400	0.000	5.169
11/10/2025 08:00	15.100	253,083	27.637	36.336	0.000	5.378
11/10/2025 09:00	15.122	251,843	26.882	34.377	0.000	5.438
11/10/2025 10:00	15.054	336,950	40.344	17.762	0.000	5.843
11/10/2025 11:00	15.096	336,666	40.658	18.574	0.000	5.642
11/10/2025 12:00	15.068	329,528	39.612	19.254	0.000	5.434
11/10/2025 13:00	15.021	263,267	29.795	24.535	0.001	5.135
11/10/2025 14:00	15.006	346,159	42.547	17.551	0.001	5.495
11/10/2025 15:00	15.086	358,336	43.354	19.910	0.001	5.748
11/10/2025 16:00	15.097	352,183	42.998	18.432	0.001	5.435
11/10/2025 17:00	15.096	352,386	43.348	17.898	0.001	5.574
11/10/2025 18:00	15.097	365,505	44.643	18.916	0.001	5.623
11/10/2025 19:00	15.095	361,688	44.551	18.302	0.001	5.586
11/10/2025 20:00	15.040	358,113	43.654	18.436	0.001	5.869
11/10/2025 21:00	15.045	368,182	45.702	19.076	0.001	6.190
11/10/2025 22:00	15.030	358,318	43.945	19.395	0.001	6.012
11/10/2025 23:00	15.045	355,654	43.555	17.458	0.001	5.752
12/10/2025 00:00	14.921	262,192	29.668	31.941	0.001	4.898
12/10/2025 01:00	14.986	260,852	29.511	29.999	0.001	5.191
12/10/2025 02:00	14.952	262,218	30.469	23.537	0.001	5.173
12/10/2025 03:00	14.929	266,281	30.388	26.727	0.001	5.518
12/10/2025 04:00	14.993	260,946	28.953	32.074	0.000	5.343
12/10/2025 05:00	14.947	260,550	29.504	28.142	0.000	5.208
12/10/2025 06:00	15.005	261,727	29.036	30.064	0.000	5.060
12/10/2025 07:00	15.013	256,578	28.751	30.225	0.000	4.960
12/10/2025 08:00	15.068	253,635	27.704	37.291	0.000	5.314
12/10/2025 09:00	15.086	257,105	27.359	32.225	0.000	5.161
12/10/2025 10:00	15.162	251,976	27.240	38.520	0.000	4.777
12/10/2025 11:00	15.143	253,675	26.953	34.468	0.000	5.303
12/10/2025 12:00	15.187	249,815	26.050	37.940	0.000	5.151
12/10/2025 13:00	15.208	244,628	25.143	36.593	0.000	5.807
12/10/2025 14:00	15.181	248,610	25.694	35.417	0.000	5.181
12/10/2025 15:00	15.123	244,852	25.378	38.964	0.000	6.274

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/10/2025 16:00	15.126	247,809	25.804	37.600	0.001	4.750
12/10/2025 17:00	15.099	253,720	27.554	37.526	0.001	5.379
12/10/2025 18:00	15.037	253,792	26.692	33.627	0.001	5.128
12/10/2025 19:00	15.039	357,917	43.640	18.294	0.001	5.733
12/10/2025 20:00	15.025	345,818	41.855	17.360	0.001	5.656
12/10/2025 21:00	15.072	354,160	42.900	18.761	0.001	5.506
12/10/2025 22:00	15.048	370,054	45.346	16.901	0.001	5.386
12/10/2025 23:00	15.035	355,286	42.778	19.396	0.002	5.031
13/10/2025 00:00	14.993	266,813	30.547	27.699	0.002	4.649
13/10/2025 01:00	15.002	257,755	28.943	31.634	0.002	4.971
13/10/2025 02:00	15.027	257,582	28.128	30.699	0.003	4.989
13/10/2025 03:00	15.052	253,675	28.044	34.863	0.003	4.827
13/10/2025 04:00	14.996	262,034	29.843	30.305	0.004	4.986
13/10/2025 05:00	15.050	254,062	27.357	33.310	0.004	5.036
13/10/2025 06:00	14.986	262,855	29.379	29.710	0.004	5.347
13/10/2025 07:00	15.011	259,625	28.279	28.392	0.004	4.711
13/10/2025 08:00	15.119	249,973	26.981	37.562	0.003	5.236
13/10/2025 09:00	15.109	255,881	27.597	34.654	0.002	5.042
13/10/2025 10:00	15.107	254,680	26.576	34.741	0.001	5.059
13/10/2025 11:00	15.136	253,378	26.585	35.929	0.001	5.058
13/10/2025 12:00	15.113	255,553	27.098	32.257	0.000	5.016
13/10/2025 13:00	15.018	264,685	30.139	29.461	0.000	5.325
13/10/2025 14:00	15.081	340,867	40.663	18.791	0.000	5.842
13/10/2025 15:00	15.126	346,198	41.765	20.959	0.000	5.625
13/10/2025 16:00	15.101	368,581	44.892	20.459	0.000	5.468
13/10/2025 17:00	15.054	360,786	44.258	20.323	0.000	5.569
13/10/2025 18:00	15.032	368,440	45.113	19.676	0.000	7.219
13/10/2025 19:00	15.022	364,853	44.903	18.870	0.000	6.218
13/10/2025 20:00	15.035	360,352	44.057	18.497	0.000	6.177
13/10/2025 21:00	15.048	354,875	44.041	20.784	0.001	6.632
13/10/2025 22:00	15.040	359,968	44.345	18.799	0.001	6.153
13/10/2025 23:00	15.043	359,518	44.102	18.063	0.001	5.702
14/10/2025 00:00	14.913	271,163	30.773	29.318	0.001	4.796
14/10/2025 01:00	14.967	262,232	29.545	29.149	0.002	4.653
14/10/2025 02:00	14.999	267,636	30.933	28.090	0.002	5.531
14/10/2025 03:00	14.946	266,854	30.530	24.911	0.002	5.540
14/10/2025 04:00	14.990	258,341	29.339	31.687	0.002	5.526
14/10/2025 05:00	14.989	259,975	29.151	33.116	0.003	6.599
14/10/2025 06:00	14.916	262,333	29.521	20.775	0.003	5.352
14/10/2025 07:00	14.983	262,392	28.938	26.894	0.002	4.864
14/10/2025 08:00	15.003	263,001	29.708	28.850	0.001	4.956
14/10/2025 09:00	15.017	263,703	30.017	25.955	0.001	5.123
14/10/2025 10:00	15.087	357,238	42.888	17.448	0.000	5.178
14/10/2025 11:00	15.087	364,648	43.707	20.370	0.000	1.463
14/10/2025 12:00	14.935	358,856	43.386	17.173	0.015	5.180
14/10/2025 13:00	14.759	276,718	32.615	21.624	0.186	4.322
14/10/2025 14:00	14.942	366,977	45.264	24.299	0.513	5.736
14/10/2025 15:00	14.976	368,721	45.106	18.465	0.000	6.188
14/10/2025 16:00	14.936	362,136	44.425	21.455	0.330	5.852
14/10/2025 17:00	14.894	364,057	44.372	18.852	0.003	5.621
14/10/2025 18:00	14.902	359,112	43.833	18.471	0.297	5.883
14/10/2025 19:00	14.894	366,616	44.809	18.881	0.070	5.475
14/10/2025 20:00	14.899	356,034	43.298	15.775	0.003	5.506
14/10/2025 21:00	14.874	364,853	44.739	17.151	0.000	5.452
14/10/2025 22:00	14.889	368,065	45.117	18.418	0.314	5.748
14/10/2025 23:00	14.889	370382.844	45.310	22.502	0.638	5.946
15/10/2025 00:00	14.661	272880.406	31.711	11.867	0.007	4.578
15/10/2025 01:00	14.740	271124.688	31.053	20.370	0.000	4.880
15/10/2025 02:00	14.743	280297.719	32.770	17.173	0.015	4.891
15/10/2025 03:00	14.771	272211.781	31.782	21.624	0.186	6.447
15/10/2025 04:00	14.765	268277.375	30.917	24.299	0.513	5.496
15/10/2025 05:00	14.743	274494.906	32.447	11.748	0.574	6.207
15/10/2025 06:00	14.735	274905.000	32.459	12.551	0.693	4.882
15/10/2025 07:00	14.792	266921.531	30.997	25.340	0.800	4.838
15/10/2025 08:00	14.883	256848.219	28.598	32.041	0.003	5.254
15/10/2025 09:00	14.896	259378.859	28.711	30.955	0.174	5.283
15/10/2025 10:00	14.981	353,624	42.590	18.101	0.000	5.392
15/10/2025 11:00	14.967	343,958	40.901	17.994	0.003	5.299
15/10/2025 12:00	14.918	367,515	44.663	20.700	0.003	5.197
15/10/2025 13:00	14.899	261,895	28.643	27.701	0.003	4.743

Site Name:  
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Periodically:

GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/10/2025 14:00	14.903	370.634	45.199	20.805	0.003	5.491
15/10/2025 15:00	14.943	372.734	45.216	18.756	0.002	5.856
15/10/2025 16:00	14.886	374.129	46.408	22.200	0.002	6.706
15/10/2025 17:00	14.904	374.645	46.361	20.191	0.004	6.524
15/10/2025 18:00	14.868	372.787	45.516	22.566	0.138	6.911
15/10/2025 19:00	14.890	367.831	44.582	17.501	0.005	7.863
15/10/2025 20:00	14.896	353.794	43.336	16.234	0.005	8.692
15/10/2025 21:00	14.909	362.359	44.540	18.584	0.039	8.975
15/10/2025 22:00	14.897	361.540	44.233	18.601	0.458	8.213
15/10/2025 23:00	14.883	367.367	45.006	17.373	0.008	7.330
16/10/2025 00:00	14.736	271.634	31.048	34.491	0.006	6.960
16/10/2025 01:00	14.760	268.263	31.107	23.665	0.002	7.960
16/10/2025 02:00	14.723	274.419	31.465	11.245	0.027	6.974
16/10/2025 03:00	14.695	274.735	31.600	11.471	0.195	6.083
16/10/2025 04:00	14.837	263.575	30.033	28.853	0.447	6.544
16/10/2025 05:00	14.763	274.382	32.033	20.147	0.504	5.665
16/10/2025 06:00	14.788	271.088	31.763	18.171	0.697	6.251
16/10/2025 07:00	14.827	270.328	31.040	31.311	0.675	6.664
16/10/2025 08:00	14.865	260.975	29.306	29.233	0.008	6.237
16/10/2025 09:00	14.858	271.034	31.573	27.046	0.001	5.337
16/10/2025 10:00	14.994	366.176	44.033	19.829	0.014	6.167
16/10/2025 11:00	14.999	367.988	44.759	21.754	0.004	6.252
16/10/2025 12:00	14.970	367.334	44.516	22.208	0.003	6.014
16/10/2025 13:00	14.835	291.355	33.847	14.761	0.003	4.890
16/10/2025 14:00	14.995	367.699	43.884	22.763	0.002	5.737
16/10/2025 15:00	14.996	366.275	43.705	21.623	0.002	5.664
16/10/2025 16:00	14.991	366.142	43.870	21.588	0.001	5.523
16/10/2025 17:00	15.054	360.268	42.788	21.087	0.001	5.676
16/10/2025 18:00	15.001	354.292	42.729	18.133	0.001	5.109
16/10/2025 19:00	14.955	362.188	43.463	18.668	0.002	5.404
16/10/2025 20:00	14.899	334.954	40.609	17.620	0.004	5.212
16/10/2025 21:00	14.888	337.776	40.902	15.586	0.005	5.642
16/10/2025 22:00	14.909	347.427	42.528	15.640	0.007	5.912
16/10/2025 23:00	14.934	373116.531	46.945	15.717	0.006	6.402
17/10/2025 00:00	14.733	290831.313	34.886	13.172	0.004	4.986
17/10/2025 01:00	14.849	300987.375	36.051	11.563	0.005	5.119
17/10/2025 02:00	14.778	292879.688	34.227	11.333	0.003	5.079
17/10/2025 03:00	14.745	289015.625	34.617	11.873	0.001	5.116
17/10/2025 04:00	14.728	285600.969	34.358	11.563	0.002	5.211
17/10/2025 05:00	14.770	294358.813	34.839	11.251	0.014	5.732
17/10/2025 06:00	14.781	302807.250	35.974	11.525	0.013	5.765
17/10/2025 07:00	14.774	289569.563	34.783	11.322	0.001	5.201
17/10/2025 08:00	14.767	278477.625	32.482	9.597	0.000	5.259
17/10/2025 09:00	14.819	272698.188	31.744	10.854	0.000	5.085
17/10/2025 10:00	14.995	370.087	44.882	20.329	0.000	5.819
17/10/2025 11:00	15.070	364.912	43.532	18.975	0.000	5.512
17/10/2025 12:00	14.931	366.526	44.041	21.583	0.000	5.824
17/10/2025 13:00	14.913	277.269	31.785	11.989	0.000	4.270
17/10/2025 14:00	15.004	365.905	43.482	21.068	0.000	5.000
17/10/2025 15:00	15.018	360.401	43.158	18.862	0.000	5.415
17/10/2025 16:00	14.999	364.011	43.818	21.387	0.000	5.465
17/10/2025 17:00	15.016	368.081	44.232	20.993	0.000	5.680
17/10/2025 18:00	14.919	370.550	44.632	20.440	0.000	5.812
17/10/2025 19:00	14.933	358.311	43.208	15.949	0.000	5.585
17/10/2025 20:00	14.923	363.506	44.064	15.585	0.000	5.553
17/10/2025 21:00	14.930	361.362	44.161	16.000	0.000	6.026
17/10/2025 22:00	14.957	364.715	44.296	16.948	0.000	6.046
17/10/2025 23:00	14.945	370.488	44.798	19.007	0.001	5.852
18/10/2025 00:00	14.816	305.103	36.237	12.321	0.000	4.946
18/10/2025 01:00	14.741	292.825	34.915	13.852	0.000	4.580
18/10/2025 02:00	14.720	286.021	34.279	11.702	0.005	4.701
18/10/2025 03:00	14.776	298.178	35.644	12.450	0.000	5.214
18/10/2025 04:00	14.745	285.971	34.458	11.091	0.000	5.293
18/10/2025 05:00	14.754	296.787	35.582	12.060	0.000	5.488
18/10/2025 06:00	14.753	300.991	35.745	11.806	0.000	5.659
18/10/2025 07:00	14.738	290.443	34.557	11.348	0.000	6.155
18/10/2025 08:00	14.818	267.082	30.881	14.935	0.005	5.529
18/10/2025 09:00	14.796	282.535	33.241	9.842	0.005	5.278
18/10/2025 10:00	14.979	371.621	45.017	19.943	0.005	6.212
18/10/2025 11:00	15.032	368.652	44.072	17.419	0.005	5.693

Site Name:  
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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

	Actual Operation Condition			Emission Concentration for Standardization Comparison		
Date & Time	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/10/2025 12:00	14.941	362,623	44.296	19.404	0.005	5.664
18/10/2025 13:00	14.809	268,009	30.741	19.189	0.004	4.280
18/10/2025 14:00	14.940	362,678	44.834	18.130	0.004	6.632
18/10/2025 15:00	14.919	370,758	45.307	18.636	0.004	6.123
18/10/2025 16:00	14.945	370,656	44.953	17.066	0.004	6.235
18/10/2025 17:00	14.928	374,688	45.827	17.306	0.004	5.783
18/10/2025 18:00	14.891	372,606	45.804	17.962	0.003	5.783
18/10/2025 19:00	14.866	373,329	45.893	19.060	0.003	5.950
18/10/2025 20:00	14.924	366,470	44.749	14.857	0.002	5.701
18/10/2025 21:00	14.909	364,574	44.443	15.520	0.002	5.725
18/10/2025 22:00	14.890	375,322	46.292	16.166	0.002	5.866
18/10/2025 23:00	14.882	370,704	45.146	16.343	0.001	5.545
19/10/2025 00:00	14.655	280,589	34.001	11.209	0.000	4.905
19/10/2025 01:00	14.687	279,666	33.455	11.101	0.000	6.486
19/10/2025 02:00	14.691	284,694	34.252	9.787	0.000	6.042
19/10/2025 03:00	14.766	300,063	35.974	10.966	0.000	5.719
19/10/2025 04:00	14.687	280,757	33.531	10.841	0.000	5.455
19/10/2025 05:00	14.708	283,384	33.914	9.330	0.000	5.351
19/10/2025 06:00	14.707	279,686	33.191	11.340	0.000	5.993
19/10/2025 07:00	14.725	270,522	31.682	14.673	0.000	6.763
19/10/2025 08:00	14.849	267,553	30.444	22.316	0.000	5.563
19/10/2025 09:00	14.868	265,747	30.360	22.451	0.000	5.307
19/10/2025 10:00	14.839	271,928	31.671	11.422	0.000	4.821
19/10/2025 11:00	14.855	278,656	32.579	10.736	0.000	4.346
19/10/2025 12:00	14.930	263,031	29.709	17.526	0.000	4.953
19/10/2025 13:00	14.926	269,691	29.938	24.128	0.000	4.922
19/10/2025 14:00	14.949	267,554	30.117	19.012	0.000	4.643
19/10/2025 15:00	14.883	271,993	31.405	11.409	0.000	4.683
19/10/2025 16:00	14.822	274,338	31.331	10.478	0.000	4.678
19/10/2025 17:00	14.805	282,507	33.083	9.700	0.000	4.953
19/10/2025 18:00	14.735	274,412	32.307	11.684	0.000	4.956
19/10/2025 19:00	14.922	370,506	45.624	20.415	0.001	6.150
19/10/2025 20:00	14.922	372,892	45.946	18.872	0.000	5.727
19/10/2025 21:00	14.880	374,129	45.659	18.223	0.000	5.446
19/10/2025 22:00	14.885	374,412	46.144	20.481	0.000	5.588
19/10/2025 23:00	14.876	376786.938	46.317	18.424	0.000	5.675
20/10/2025 00:00	14.747	272438.125	32.091	15.201	0.000	4.785
20/10/2025 01:00	14.730	272132.031	31.579	8.892	0.000	4.775
20/10/2025 02:00	14.740	274904.438	32.349	9.222	0.000	5.079
20/10/2025 03:00	14.714	280232.438	33.458	11.168	0.000	5.764
20/10/2025 04:00	14.724	272492.844	32.154	8.663	0.000	6.058
20/10/2025 05:00	14.755	269719.813	31.361	17.287	0.000	5.874
20/10/2025 06:00	14.760	284286.313	33.642	10.925	0.000	5.502
20/10/2025 07:00	14.747	288821.844	34.553	11.040	0.001	5.471
20/10/2025 08:00	14.798	274848.969	32.093	10.377	0.001	5.534
20/10/2025 09:00	14.763	278912.406	32.603	12.422	0.001	5.284
20/10/2025 10:00	14.981	370,476	45.090	20.169	0.001	6.128
20/10/2025 11:00	15.011	367,058	44.176	18.683	0.001	6.421
20/10/2025 12:00	15.014	365,888	44.184	18.838	0.001	6.193
20/10/2025 13:00	14.934	270,312	30.404	23.377	0.001	5.106
20/10/2025 14:00	14.930	366,651	44.742	18.583	0.001	5.399
20/10/2025 15:00	14.871	373,079	46.339	20.621	0.001	7.773
20/10/2025 16:00	14.959	364,399	44.355	18.882	0.001	7.977
20/10/2025 17:00	14.960	374,703	45.438	18.196	0.000	7.181
20/10/2025 18:00	14.922	367,697	44.853	17.558	0.000	6.310
20/10/2025 19:00	14.884	366,618	44.856	16.005	0.000	6.275
20/10/2025 20:00	14.889	367,935	44.645	16.257	0.000	6.020
20/10/2025 21:00	14.903	364,284	44.624	16.381	0.000	5.877
20/10/2025 22:00	14.876	365,084	45.232	17.397	0.000	10.832
20/10/2025 23:00	14.934	374,751	46.224	17.542	0.000	7.732
21/10/2025 00:00	14.727	294,724	35.614	14.066	0.010	5.069
21/10/2025 01:00	14.748	299,625	36.007	12.453	0.001	4.944
21/10/2025 02:00	14.748	303,438	36.618	13.303	0.001	5.599
21/10/2025 03:00	14.769	298,983	36.173	11.696	0.003	6.523
21/10/2025 04:00	14.780	303,098	36.801	11.324	0.003	6.646
21/10/2025 05:00	14.749	299,326	35.597	10.298	0.000	6.375
21/10/2025 06:00	14.739	296,932	35.942	11.234	0.003	5.762
21/10/2025 07:00	14.722	292,946	35.496	12.833	0.006	6.286
21/10/2025 08:00	14.711	280,125	33.571	9.924	0.005	5.857
21/10/2025 09:00	14.824	290,292	34.729	12.185	0.005	5.444

Site Name:  
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Periodically:

GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/10/2025 10:00	14.994	369,335	45.186	21.081	0.005	6.386
21/10/2025 11:00	15.029	367,404	44.721	22.818	0.004	6.052
21/10/2025 12:00	14.878	317,157	38.052	16.929	0.004	5.282
21/10/2025 13:00	15.561	206,322	17.060	16.005	0.004	6.008
21/10/2025 14:00	14.898	305,065	35.969	14.527	0.003	5.143
21/10/2025 15:00	14.923	302,295	35.673	14.846	0.003	4.689
21/10/2025 16:00	14.993	336,988	40.228	16.771	0.003	5.582
21/10/2025 17:00	14.963	329,246	38.823	16.061	0.003	5.327
21/10/2025 18:00	14.977	335,786	40.397	17.332	0.003	5.207
21/10/2025 19:00	14.936	345,230	41.696	16.995	0.003	5.475
21/10/2025 20:00	14.910	329,371	39.767	17.272	0.003	5.336
21/10/2025 21:00	14.896	333,500	40.523	16.620	0.003	5.269
21/10/2025 22:00	14.927	347,411	42.456	15.278	0.003	5.714
21/10/2025 23:00	14.906	348198.844	42.681	16.454	0.003	5.777
22/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/10/2025 10:00	14.960	316,589	38.350	18.700	0.002	11.472
22/10/2025 11:00	14.966	316,837	38.114	17.784	0.002	5.444
22/10/2025 12:00	14.871	306,294	36.810	17.464	0.002	6.386
22/10/2025 13:00	15.203	241,083	24.102	44.321	0.002	6.052
22/10/2025 14:00	15.000	325,986	39.450	17.058	0.002	5.282
22/10/2025 15:00	14.999	340,901	40.527	18.409	0.001	6.008
22/10/2025 16:00	14.981	333,822	40.218	18.142	0.001	5.143
22/10/2025 17:00	14.984	331,055	39.681	16.719	0.001	18.884
22/10/2025 18:00	14.955	342,497	41.727	17.579	0.001	19.052
22/10/2025 19:00	14.943	347,970	42.111	15.539	0.001	22.306
22/10/2025 20:00	14.926	337,253	40.575	16.701	0.002	19.145
22/10/2025 21:00	14.958	339,952	41.259	16.550	0.000	18.105
22/10/2025 22:00	14.938	343,532	41.483	17.651	0.000	19.337
22/10/2025 23:00	14.957	351,381	42.656	16.517	0.000	15.053
23/10/2025 00:00	14.991	372,652	45.755	23.440	0.000	15.339
23/10/2025 01:00	15.008	353,071	43.339	18.873	0.000	12.617
23/10/2025 02:00	14.993	351,405	43.237	19.309	0.000	10.391
23/10/2025 03:00	14.991	349,390	43.298	17.795	0.002	14.336
23/10/2025 04:00	14.989	347,685	43.232	19.283	0.004	13.768
23/10/2025 05:00	14.986	350,117	43.219	18.965	0.006	19.037
23/10/2025 06:00	14.984	347,989	43.299	18.788	0.000	9.096
23/10/2025 07:00	14.981	351,937	43.297	16.877	0.001	8.634
23/10/2025 08:00	15.002	348,885	43.267	18.436	0.000	19.145
23/10/2025 09:00	15.043	364,673	44.371	20.986	0.000	18.105
23/10/2025 10:00	14.949	336,883	40.756	19.111	0.000	19.337
23/10/2025 11:00	14.988	335,720	40.223	18.847	0.000	1.184
23/10/2025 12:00	14.943	325,692	39.068	18.889	0.000	1.178
23/10/2025 13:00	15.090	248,573	25.781	41.466	0.000	1.138
23/10/2025 14:00	15.033	343,934	41.613	19.120	0.000	1.150
23/10/2025 15:00	15.008	334,747	40.354	18.437	0.000	1.153
23/10/2025 16:00	15.018	346,397	41.457	19.050	0.000	1.161
23/10/2025 17:00	14.982	351,133	42.000	18.567	0.000	18.105
23/10/2025 18:00	14.986	341,293	41.271	17.446	0.000	20.934
23/10/2025 19:00	14.930	340,014	41.256	18.930	0.000	20.280
23/10/2025 20:00	14.935	335,890	41.375	17.383	0.000	14.336
23/10/2025 21:00	14.948	347,954	42.022	16.516	0.000	13.768
23/10/2025 22:00	14.931	349,321	42.791	17.251	0.001	19.037
23/10/2025 23:00	14.926	343,580	41.515	16.100	0.002	9.096
24/10/2025 00:00	14.967	376,186	46.346	19.904	0.002	22.080
24/10/2025 01:00	14.954	349,809	43.104	17.686	0.000	24.157
24/10/2025 02:00	14.961	349,261	43.272	18.110	0.000	19.145
24/10/2025 03:00	14.967	349,051	43.368	17.867	0.002	18.105
24/10/2025 04:00	14.974	351,314	43.234	17.129	0.006	19.337
24/10/2025 05:00	14.980	350,943	43.303	18.017	0.002	15.053
24/10/2025 06:00	14.987	348,859	43.230	17.925	0.009	15.339
24/10/2025 07:00	14.984	349,193	43.136	18.457	0.009	12.617

Site Name:  
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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/10/2025 08:00	14.964	350,652	43.169	19.624	0.000	10.391
24/10/2025 09:00	14.982	374,481	46.456	22.160	0.000	14.336
24/10/2025 10:00	14.938	330,957	40.124	17.379	0.001	13.768
24/10/2025 11:00	14.999	336,800	40.550	17.358	0.001	19.037
24/10/2025 12:00	14.926	317,439	38.347	16.932	0.001	9.096
24/10/2025 13:00	15.137	244,836	25.076	42.830	0.001	8.634
24/10/2025 14:00	14.987	329,853	39.439	16.113	0.001	19.145
24/10/2025 15:00	15.084	352,152	42.092	18.313	0.002	18.105
24/10/2025 16:00	15.005	339,529	40.513	16.746	0.002	19.337
24/10/2025 17:00	14.970	337,651	40.223	15.400	0.001	1.184
24/10/2025 18:00	14.952	339,917	41.088	16.634	0.001	1.178
24/10/2025 19:00	14.884	333,145	40.183	15.584	0.000	1.138
24/10/2025 20:00	14.890	329,605	39.880	15.851	0.000	1.150
24/10/2025 21:00	14.911	341,273	41.261	15.690	0.000	1.153
24/10/2025 22:00	14.886	334,392	41.098	17.548	0.000	1.161
24/10/2025 23:00	14.935	338,436	41.645	16.167	0.000	1.175
25/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/10/2025 10:00	14.874	335,745	41.234	17.559	0.004	1.156
25/10/2025 11:00	14.900	342,118	41.408	16.962	0.010	1.178
25/10/2025 12:00	14.882	333,731	40.524	17.857	0.002	4.704
25/10/2025 13:00	15.022	247,739	25.834	36.958	0.004	5.152
25/10/2025 14:00	14.934	333,474	39.121	15.999	0.004	4.704
25/10/2025 15:00	14.989	337,848	40.719	17.597	0.003	4.116
25/10/2025 16:00	14.989	352,197	41.810	17.356	0.003	3.971
25/10/2025 17:00	14.922	337,848	41.158	17.080	0.003	4.052
25/10/2025 18:00	14.929	329,868	40.087	16.925	0.003	4.597
25/10/2025 19:00	14.930	341,871	41.410	16.383	0.003	3.715
25/10/2025 20:00	14.906	321,840	39.162	16.704	0.002	4.492
25/10/2025 21:00	14.876	325,588	39.593	15.753	0.002	4.296
25/10/2025 22:00	14.864	325,287	39.254	16.342	0.002	4.035
25/10/2025 23:00	14.870	338,899	41.125	16.384	0.002	4.130
26/10/2025 00:00	14.777	297,051	35.577	13.657	0.002	5.178
26/10/2025 01:00	14.813	300,931	36.353	12.640	0.001	5.028
26/10/2025 02:00	14.803	297,698	36.222	14.018	0.001	4.748
26/10/2025 03:00	14.816	287,023	34.621	13.478	0.001	4.756
26/10/2025 04:00	14.817	290,247	34.533	13.264	0.001	4.885
26/10/2025 05:00	14.818	288,379	34.115	13.647	0.000	4.423
26/10/2025 06:00	14.800	283,594	34.321	13.010	0.000	4.930
26/10/2025 07:00	14.812	269,231	31.976	14.192	0.000	4.721
26/10/2025 08:00	14.909	265,224	30.527	26.742	0.000	4.989
26/10/2025 09:00	14.850	268,220	30.976	25.077	0.000	4.857
26/10/2025 10:00	14.911	265,413	29.916	28.577	0.000	4.767
26/10/2025 11:00	14.907	265,428	29.936	16.834	0.000	4.707
26/10/2025 12:00	14.971	264,161	29.761	28.738	0.000	4.730
26/10/2025 13:00	14.879	268,299	30.695	19.457	0.000	4.407
26/10/2025 14:00	14.845	276,229	32.405	12.839	0.000	4.049
26/10/2025 15:00	14.845	283,923	33.172	12.661	0.000	4.164
26/10/2025 16:00	14.861	277,245	32.191	11.839	0.000	4.491
26/10/2025 17:00	14.824	286,680	33.393	12.334	0.000	4.390
26/10/2025 18:00	14.980	370,419	45.358	20.949	0.000	4.321
26/10/2025 19:00	14.953	374,471	46.002	22.617	0.000	4.424
26/10/2025 20:00	14.926	373,742	46.058	22.409	0.000	4.756
26/10/2025 21:00	14.935	375,516	46.443	21.169	0.000	4.879
26/10/2025 22:00	14.870	319,377	38.621	17.345	0.000	4.921
26/10/2025 23:00	14.954	372,722	46.269	21.162	0.000	5.455
27/10/2025 00:00	14.971	351,267	43.217	17.883	0.000	4.510
27/10/2025 01:00	14.966	350,065	43.228	19.483	0.000	4.813
27/10/2025 02:00	14.962	353,982	43.238	18.157	0.000	4.888
27/10/2025 03:00	14.957	346,835	43.285	17.613	0.000	5.013
27/10/2025 04:00	14.953	350,121	43.084	19.023	0.000	4.888
27/10/2025 05:00	14.948	351,286	43.318	18.798	0.000	4.843

Site Name:  
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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/10/2025 06:00	14.948	350,257	43.083	17.946	0.003	4.861
27/10/2025 07:00	14.953	352,138	43.170	17.778	0.004	5.091
27/10/2025 08:00	14.959	350,519	43.153	17.466	0.005	5.674
27/10/2025 09:00	14.970	369,376	45.890	21.721	0.004	5.173
27/10/2025 10:00	14.891	320,576	38.817	16.529	0.003	4.481
27/10/2025 11:00	14.867	307,752	36.884	15.234	0.003	4.712
27/10/2025 12:00	14.876	309,234	37.208	15.728	0.002	4.532
27/10/2025 13:00	15.159	240,921	24.220	43.728	0.001	11.104
27/10/2025 14:00	14.950	332,140	39.820	17.855	0.006	9.721
27/10/2025 15:00	14.977	339,545	41.127	18.144	0.005	9.779
27/10/2025 16:00	14.953	326,273	39.366	18.079	0.005	9.395
27/10/2025 17:00	14.938	335,891	40.349	18.315	0.004	9.980
27/10/2025 18:00	14.878	324,888	39.009	17.088	0.004	10.746
27/10/2025 19:00	14.854	323,967	39.754	17.000	0.003	10.547
27/10/2025 20:00	14.847	318,897	38.424	16.933	0.003	10.889
27/10/2025 21:00	14.861	326,556	40.224	16.798	0.002	10.828
27/10/2025 22:00	14.862	327,541	39.663	17.585	0.004	10.460
27/10/2025 23:00	14.867	327,754	39.682	16.650	0.006	10.878
28/10/2025 00:00	14.962	375,457	46.552	22.209	0.008	11.290
28/10/2025 01:00	14.965	356,239	43.303	18.765	0.000	11.194
28/10/2025 02:00	14.964	349,507	43.225	17.447	0.006	11.049
28/10/2025 03:00	14.958	353,378	43.370	17.905	0.016	11.254
28/10/2025 04:00	14.937	351,929	43.165	18.475	0.011	11.279
28/10/2025 05:00	14.939	353,814	43.269	17.046	0.003	11.349
28/10/2025 06:00	14.942	349,052	43.227	16.930	0.003	11.498
28/10/2025 07:00	14.945	350,266	43.244	17.712	0.003	11.127
28/10/2025 08:00	14.947	349,041	43.143	17.941	0.001	11.104
28/10/2025 09:00	14.927	370,661	46.014	19.941	0.001	10.652
28/10/2025 10:00	14.857	321,514	39.101	15.778	0.001	10.344
28/10/2025 11:00	14.867	325,760	39.203	15.636	0.001	10.087
28/10/2025 12:00	14.854	311,233	37.871	16.117	0.001	9.750
28/10/2025 13:00	15.090	242,989	24.827	38.924	0.001	9.637
28/10/2025 14:00	14.879	318,519	38.405	15.960	0.001	9.471
28/10/2025 15:00	14.930	320,805	38.550	15.850	0.001	9.167
28/10/2025 16:00	14.956	335,115	39.682	17.068	0.001	9.219
28/10/2025 17:00	14.948	329,383	39.763	17.410	0.001	9.057
28/10/2025 18:00	14.888	323,646	39.033	17.038	0.001	9.365
28/10/2025 19:00	14.888	327,502	39.434	15.890	0.002	9.159
28/10/2025 20:00	14.891	318,167	38.111	15.776	0.002	9.399
28/10/2025 21:00	14.879	323,386	38.770	15.884	0.002	9.327
28/10/2025 22:00	14.878	323,621	39.350	16.391	0.002	9.635
28/10/2025 23:00	14.924	343406.531	41.120	16.779	0.002	9.211
29/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/10/2025 10:00	14.908	315574.813	37.770	17.852	0.000	9.027
29/10/2025 11:00	14.936	319,537	38.495	17.399	0.000	8.913
29/10/2025 12:00	14.833	307,243	37.261	16.745	0.000	9.050
29/10/2025 13:00	15.130	239,137	24.122	44.615	0.001	9.669
29/10/2025 14:00	14.821	323,484	39.093	15.557	0.001	9.754
29/10/2025 15:00	14.843	320,160	38.529	17.057	0.001	9.458
29/10/2025 16:00	14.846	324,802	39.272	15.305	0.002	9.732
29/10/2025 17:00	14.862	320,790	38.951	16.507	0.002	10.038
29/10/2025 18:00	14.815	317,669	39.030	15.973	0.003	10.633
29/10/2025 19:00	14.797	316,061	38.536	15.737	0.004	10.099
29/10/2025 20:00	14.806	314,082	38.408	14.437	0.003	9.780
29/10/2025 21:00	14.777	314,110	38.303	14.393	0.000	9.946
29/10/2025 22:00	14.839	328,497	40.010	16.538	0.000	9.986
29/10/2025 23:00	14.897	323505.000	39.445	15.469	0.004	9.554
30/10/2025 00:00	14.969	375628.781	46.252	20.519	0.001	9.676
30/10/2025 01:00	14.936	349085.844	43.204	18.636	0.004	8.760
30/10/2025 02:00	14.934	352162.313	43.266	18.545	0.006	9.364
30/10/2025 03:00	14.935	350189.188	43.206	18.014	0.000	9.563

Site Name:  
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GNLL2  
HRSG11  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/10/2025 04:00	14.936	350424.531	43.124	18.094	0.000	10.097
30/10/2025 05:00	14.940	349456.688	43.322	17.216	0.000	10.132
30/10/2025 06:00	14.945	350133.406	43.252	17.114	0.003	10.073
30/10/2025 07:00	14.949	350451.719	43.230	18.438	0.000	9.909
30/10/2025 08:00	14.954	350154.688	43.292	17.933	0.009	10.332
30/10/2025 09:00	14.921	372675.031	46.436	21.656	0.003	10.526
30/10/2025 10:00	14.857	319,345	38.338	15.908	0.003	9.594
30/10/2025 11:00	14.860	325,488	39.693	15.958	0.002	9.630
30/10/2025 12:00	14.798	313,231	37.966	16.122	0.002	9.434
30/10/2025 13:00	14.974	248,641	26.559	35.477	0.002	9.461
30/10/2025 14:00	14.890	331,999	40.026	15.833	0.001	9.505
30/10/2025 15:00	14.903	333,532	40.281	16.452	0.001	9.422
30/10/2025 16:00	14.904	341,432	41.242	16.383	0.001	9.425
30/10/2025 17:00	14.931	339,404	40.868	15.493	0.001	9.197
30/10/2025 18:00	14.871	331,702	40.034	16.596	0.001	9.029
30/10/2025 19:00	14.853	324,261	39.197	15.994	0.003	8.612
30/10/2025 20:00	14.819	316,133	38.881	16.632	0.000	9.056
30/10/2025 21:00	14.837	333,732	40.256	15.860	0.000	10.069
30/10/2025 22:00	14.855	329,880	40.279	15.877	0.000	9.512
30/10/2025 23:00	14.839	332,629	40.532	16.752	0.007	10.237
31/10/2025 00:00	14.892	372,870	46.362	20.327	0.001	11.533
31/10/2025 01:00	14.908	355,155	43.603	16.552	0.000	11.405
31/10/2025 02:00	14.902	354,981	43.608	17.698	0.000	10.267
31/10/2025 03:00	14.896	353,700	43.569	17.821	0.000	10.208
31/10/2025 04:00	14.890	353,539	43.501	17.565	0.000	9.266
31/10/2025 05:00	14.884	352,093	43.432	18.011	0.008	9.253
31/10/2025 06:00	14.878	351,972	43.402	17.204	0.004	9.145
31/10/2025 07:00	14.872	350,144	43.346	17.559	0.000	8.986
31/10/2025 08:00	14.892	348,716	43.280	16.704	0.005	8.758
31/10/2025 09:00	14.914	369,660	45.959	21.470	0.000	9.111
31/10/2025 10:00	14.856	317,705	38.319	14.750	0.000	8.574
31/10/2025 11:00	14.887	323,930	39.021	16.146	0.000	8.550
31/10/2025 12:00	14.798	322,461	38.623	14.417	0.000	10.077
31/10/2025 13:00	14.985	245,085	25.720	37.229	0.000	14.984
31/10/2025 14:00	14.790	321,921	38.969	15.015	0.000	10.850
31/10/2025 15:00	14.843	329,732	39.984	17.148	0.000	10.299
31/10/2025 16:00	14.868	332,801	40.238	16.509	0.000	9.928
31/10/2025 17:00	14.857	323,006	38.692	16.389	0.000	9.798
31/10/2025 18:00	14.810	318,444	38.630	15.438	0.000	12.252
31/10/2025 19:00	14.791	315,811	38.250	16.119	0.000	9.187
31/10/2025 20:00	14.775	319,383	38.466	15.060	0.000	8.785
31/10/2025 21:00	14.788	313,841	38.070	14.166	0.000	9.122
31/10/2025 22:00	14.814	329,382	39.892	15.942	0.000	8.938
31/10/2025 23:00	14.821	323932.188	39.300	15.664	0.000	9.158
Minimum	14.65	206,322	17.06	4.34	0.00	1.14
Maximum	15.56	377,305	47.12	50.13	0.80	24.16
Avg	14.64	322,567	39.00	19.65	0.01	6.65
SUM						
STD				160	6	28

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/10/2025 10:00	13.971	319,280	37.254	25.951	0.028	6.022
01/10/2025 11:00	13.963	309,105	35.733	23.952	0.017	2.271
01/10/2025 12:00	14.088	326,186	35.898	28.996	0.452	1.497
01/10/2025 13:00	14.515	271,990	22.007	45.626	0.015	2.130
01/10/2025 14:00	14.123	361,168	38.684	25.882	0.017	1.943
01/10/2025 15:00	14.089	367,644	37.727	27.822	0.022	3.936
01/10/2025 16:00	14.076	385,561	38.604	29.052	0.325	3.380
01/10/2025 17:00	14.115	407,528	40.460	30.154	0.372	2.674
01/10/2025 18:00	14.060	390,745	38.550	27.809	0.009	4.181
01/10/2025 19:00	14.086	395,898	40.747	29.917	0.525	6.606
01/10/2025 20:00	14.054	380,344	38.982	29.781	0.638	7.393
01/10/2025 21:00	14.083	379,294	39.912	30.176	0.513	8.197
01/10/2025 22:00	14.014	359,269	38.847	28.369	0.464	4.468
01/10/2025 23:00	14.020	373,746	41.569	27.447	0.025	3.018
02/10/2025 00:00	14.069	405,771	45.982	33.244	0.014	2.586
02/10/2025 01:00	14.105	391,360	43.351	28.370	0.021	2.343
02/10/2025 02:00	14.104	387,030	43.305	30.650	0.180	2.413
02/10/2025 03:00	14.102	382,166	43.250	28.996	0.013	4.745
02/10/2025 04:00	14.101	366,191	43.302	28.620	0.018	7.350
02/10/2025 05:00	14.099	369,484	43.222	31.856	0.808	6.085
02/10/2025 06:00	14.098	367,675	43.255	29.349	0.014	5.131
02/10/2025 07:00	14.096	371,159	43.290	28.163	0.017	6.375
02/10/2025 08:00	14.094	370,288	43.094	31.496	0.344	7.901
02/10/2025 09:00	14.106	388,404	45.892	30.977	0.035	4.585
02/10/2025 10:00	14.039	349,031	38.318	28.457	0.015	3.382
02/10/2025 11:00	14.083	356,843	38.066	27.139	0.014	1.975
02/10/2025 12:00	13.962	356,083	37.663	24.432	0.014	1.243
02/10/2025 13:00	14.310	308,842	25.228	23.457	0.013	0.786
02/10/2025 14:00	14.252	382,834	41.984	25.370	0.012	1.419
02/10/2025 15:00	14.211	347,920	41.325	30.115	0.012	4.025
02/10/2025 16:00	14.138	327,261	41.311	28.091	0.011	12.370
02/10/2025 17:00	14.093	327,556	40.260	26.618	0.011	14.570
02/10/2025 18:00	14.077	335,721	41.944	26.298	0.012	12.552
02/10/2025 19:00	14.089	339,931	41.439	25.681	0.013	5.450
02/10/2025 20:00	14.045	326,084	39.696	24.846	0.014	5.028
02/10/2025 21:00	14.083	326,139	40.424	25.890	0.015	6.402
02/10/2025 22:00	14.099	324,915	40.321	25.045	0.016	2.306
02/10/2025 23:00	14.109	349950.563	43.353	24.634	0.017	4.320
03/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
03/10/2025 10:00	14.140	370,507	39.485	23.199	0.012	3.385
03/10/2025 11:00	14.155	368,462	37.972	23.359	0.009	2.333
03/10/2025 12:00	14.130	354,135	37.284	23.160	0.009	1.248
03/10/2025 13:00	14.256	319,094	27.900	22.794	0.009	0.659
03/10/2025 14:00	14.230	377,904	41.856	27.232	0.010	6.887
03/10/2025 15:00	14.217	391,348	43.396	26.836	0.010	9.115
03/10/2025 16:00	14.154	386,180	41.093	26.502	0.010	5.090
03/10/2025 17:00	14.142	384,705	41.091	24.279	0.010	3.034
03/10/2025 18:00	14.134	375,645	40.932	24.994	0.010	1.874
03/10/2025 19:00	14.110	372,679	40.646	23.274	0.011	2.600
03/10/2025 20:00	14.137	356,124	40.505	24.854	0.011	1.537
03/10/2025 21:00	14.128	354,393	41.421	26.217	0.012	3.886

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/10/2025 22:00	14.111	370,625	41.197	25.484	0.013	3.767
03/10/2025 23:00	14.146	369,885	41.256	24.568	0.014	2.022
04/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
04/10/2025 10:00	14.057	347,371	39.591	23.783	0.014	4.997
04/10/2025 11:00	14.030	330,290	36.669	22.710	0.009	2.868
04/10/2025 12:00	14.044	365,286	37.927	22.004	0.009	6.182
04/10/2025 13:00	14.468	295,046	22.436	38.505	0.010	2.603
04/10/2025 14:00	14.108	359,800	37.865	21.973	0.010	0.622
04/10/2025 15:00	14.178	376,670	39.746	22.579	0.011	1.368
04/10/2025 16:00	14.233	397,800	41.323	25.126	0.012	1.034
04/10/2025 17:00	14.202	378,291	39.597	24.011	0.012	3.552
04/10/2025 18:00	14.183	390,558	42.119	24.040	0.013	5.051
04/10/2025 19:00	14.115	368,824	40.891	22.703	0.014	10.274
04/10/2025 20:00	14.149	378,231	40.675	22.729	0.013	6.921
04/10/2025 21:00	14.106	391,878	42.390	23.051	0.013	2.750
04/10/2025 22:00	14.117	386,234	41.609	22.937	0.013	2.630
04/10/2025 23:00	14.107	376,788	40.515	21.523	0.013	2.193
05/10/2025 00:00	14.066	316,670	29.888	21.803	0.013	2.167
05/10/2025 01:00	13.971	338,325	35.718	19.478	0.013	2.341
05/10/2025 02:00	14.006	354,987	37.254	19.916	0.013	3.451
05/10/2025 03:00	13.997	356,860	37.532	20.171	0.013	2.828
05/10/2025 04:00	13.986	337,604	35.556	18.629	0.013	2.461
05/10/2025 05:00	13.998	352,786	37.031	18.722	0.013	2.505
05/10/2025 06:00	13.959	330,110	34.576	19.082	0.013	2.396
05/10/2025 07:00	13.946	319,865	33.856	18.476	0.013	8.738
05/10/2025 08:00	14.094	323,369	29.343	22.273	0.013	4.633
05/10/2025 09:00	14.004	346,380	32.627	17.031	0.013	4.921
05/10/2025 10:00	13.995	343,277	34.178	17.504	0.013	12.238
05/10/2025 11:00	13.960	316,931	33.690	17.858	0.013	4.385
05/10/2025 12:00	13.966	297,789	32.606	16.582	0.012	4.777
05/10/2025 13:00	13.954	310,649	32.728	16.109	0.012	3.453
05/10/2025 14:00	13.894	323,397	34.150	17.840	0.012	4.827
05/10/2025 15:00	13.998	325,020	32.326	16.092	0.011	5.579
05/10/2025 16:00	14.002	341,612	33.864	17.771	0.011	3.756
05/10/2025 17:00	14.049	328,621	32.222	17.321	0.010	3.550
05/10/2025 18:00	14.002	323,325	32.598	18.596	0.010	2.661
05/10/2025 19:00	14.167	405,303	45.542	26.737	0.010	2.818
05/10/2025 20:00	14.171	402,144	44.052	22.411	0.010	2.269
05/10/2025 21:00	14.124	412,194	46.049	26.144	0.010	4.575
05/10/2025 22:00	14.119	403,344	46.121	26.052	0.010	7.562
05/10/2025 23:00	14.143	408,863	45.912	26.068	0.011	12.996
06/10/2025 00:00	13.982	323,234	32.491	14.853	0.011	11.502
06/10/2025 01:00	13.963	334,002	34.441	17.095	0.011	9.032
06/10/2025 02:00	13.986	318,381	34.249	16.944	0.011	10.810
06/10/2025 03:00	13.931	304,519	34.009	17.800	0.011	11.601
06/10/2025 04:00	14.126	268,962	28.850	22.209	0.010	19.204
06/10/2025 05:00	14.071	276,395	29.822	22.775	0.010	5.394
06/10/2025 06:00	14.010	288,502	31.965	19.465	0.009	5.116
06/10/2025 07:00	13.996	289,993	33.092	17.650	0.008	6.140
06/10/2025 08:00	14.006	286,408	32.312	19.462	0.008	5.039
06/10/2025 09:00	14.039	298,737	30.454	21.323	0.007	3.282
06/10/2025 10:00	14.116	405,145	45.403	25.132	0.006	5.918
06/10/2025 11:00	14.111	413,459	44.874	26.026	0.006	4.063
06/10/2025 12:00	14.145	399,219	42.274	21.099	0.007	3.207
06/10/2025 13:00	14.193	318,146	29.100	21.338	0.007	2.445
06/10/2025 14:00	14.212	392,500	44.758	24.033	0.007	5.183
06/10/2025 15:00	14.161	387,483	45.826	27.012	0.007	2.175
06/10/2025 16:00	14.174	393,852	44.833	27.414	0.008	1.937
06/10/2025 17:00	14.169	401,138	45.015	26.286	0.008	3.012
06/10/2025 18:00	14.164	401,230	45.277	26.634	0.008	4.397
06/10/2025 19:00	14.128	408,038	45.604	26.084	0.009	5.170

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS G1_NOx@7%O2	HRS G1_SOx@7%O2	HRS G1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/10/2025 20:00	14.179	411,691	45.239	24.462	0.009	8.357
06/10/2025 21:00	14.166	413,441	45.886	25.993	0.009	9.871
06/10/2025 22:00	14.142	413,459	45.970	25.675	0.010	8.446
06/10/2025 23:00	14.074	411,443	46.067	25.413	0.010	12.538
07/10/2025 00:00	13.979	349,266	35.846	17.422	0.010	13.458
07/10/2025 01:00	13.952	346,275	36.272	17.440	0.010	19.817
07/10/2025 02:00	13.965	333,680	35.292	18.024	0.011	9.859
07/10/2025 03:00	13.942	328,999	34.986	16.870	0.011	6.350
07/10/2025 04:00	13.930	324,052	35.199	17.449	0.011	4.730
07/10/2025 05:00	13.990	300,814	32.704	17.180	0.011	11.395
07/10/2025 06:00	14.012	293,590	31.683	16.207	0.010	8.149
07/10/2025 07:00	14.035	292,679	31.190	22.093	0.009	7.763
07/10/2025 08:00	14.097	300,814	30.234	22.405	0.008	3.373
07/10/2025 09:00	14.147	312,290	28.706	20.856	0.007	6.660
07/10/2025 10:00	14.202	418,953	44.573	24.510	0.006	3.563
07/10/2025 11:00	14.206	423,602	43.227	22.436	0.005	2.784
07/10/2025 12:00	14.154	418,926	41.027	20.963	0.004	1.838
07/10/2025 13:00	14.055	304,298	31.975	17.681	0.003	3.512
07/10/2025 14:00	14.172	395,777	45.435	25.693	0.004	3.706
07/10/2025 15:00	14.168	408,702	44.829	25.530	0.005	2.954
07/10/2025 16:00	14.153	421,134	45.096	26.128	0.006	3.923
07/10/2025 17:00	14.138	418,445	45.327	26.103	0.007	4.911
07/10/2025 18:00	14.123	416,658	45.737	26.128	0.008	5.082
07/10/2025 19:00	14.151	414,498	45.569	25.991	0.009	6.756
07/10/2025 20:00	14.162	405,548	43.773	22.393	0.010	2.860
07/10/2025 21:00	14.155	415,407	45.659	23.883	0.011	3.252
07/10/2025 22:00	14.152	387,533	44.149	22.100	0.011	6.890
07/10/2025 23:00	14.165	383,760	44.940	26.341	0.011	7.926
08/10/2025 00:00	13.941	291,295	32.203	21.060	0.011	9.055
08/10/2025 01:00	14.049	298,718	33.675	20.258	0.012	13.229
08/10/2025 02:00	14.018	290,658	32.056	20.115	0.012	14.579
08/10/2025 03:00	13.960	294,373	33.249	16.185	0.012	18.237
08/10/2025 04:00	14.047	285,965	31.218	21.149	0.012	14.974
08/10/2025 05:00	14.036	282,907	31.520	21.482	0.012	14.894
08/10/2025 06:00	14.034	283,873	31.192	22.341	0.011	11.646
08/10/2025 07:00	14.086	276,429	30.526	21.535	0.011	9.561
08/10/2025 08:00	14.110	292,154	29.106	21.432	0.011	7.842
08/10/2025 09:00	14.062	309,476	30.384	23.209	0.011	4.004
08/10/2025 10:00	14.162	382,824	41.518	20.574	0.010	2.774
08/10/2025 11:00	14.224	381,185	42.377	22.498	0.010	2.233
08/10/2025 12:00	14.178	353,502	40.820	21.309	0.010	2.029
08/10/2025 13:00	14.182	288,322	29.254	21.140	0.009	2.052
08/10/2025 14:00	14.241	390,989	44.213	25.407	0.009	1.917
08/10/2025 15:00	14.268	395,485	42.956	23.075	0.009	2.148
08/10/2025 16:00	14.308	389,401	43.194	27.387	0.009	2.505
08/10/2025 17:00	14.251	380,819	43.280	27.406	0.009	3.134
08/10/2025 18:00	14.198	372,141	42.913	28.628	0.009	4.529
08/10/2025 19:00	14.156	372,609	43.139	23.808	0.009	3.405
08/10/2025 20:00	14.115	380,419	43.781	26.001	0.008	3.201
08/10/2025 21:00	14.091	390,583	43.689	25.877	0.008	8.817
08/10/2025 22:00	14.077	380,846	42.728	25.340	0.009	4.848
08/10/2025 23:00	14.063	373,353	44.697	28.783	0.009	5.486
09/10/2025 00:00	13.834	295,201	34.685	25.870	0.010	8.561
09/10/2025 01:00	13.859	300,160	34.662	25.041	0.010	4.865
09/10/2025 02:00	13.920	304,334	35.590	24.069	0.011	3.575
09/10/2025 03:00	13.899	295,547	34.388	24.456	0.011	11.267
09/10/2025 04:00	13.900	305,046	34.844	22.745	0.012	10.542
09/10/2025 05:00	13.882	301,225	34.084	22.644	0.012	9.431
09/10/2025 06:00	13.920	291,401	33.544	21.737	0.012	16.363
09/10/2025 07:00	13.834	290,562	34.134	18.991	0.012	22.069
09/10/2025 08:00	13.946	281,635	30.965	19.964	0.012	14.698
09/10/2025 09:00	13.938	289,489	32.655	16.567	0.012	7.132
09/10/2025 10:00	14.209	377,292.219	45.090	29.177	0.012	3.866
09/10/2025 11:00	14.246	387,289.031	43.977	26.814	0.012	2.829
09/10/2025 12:00	14.204	397,257.344	43.131	26.151	0.012	2.251
09/10/2025 13:00	14.049	326,923.844	31.628	18.924	0.012	1.475
09/10/2025 14:00	14.210	400512.469	44.352	29.731	0.011	2.455
09/10/2025 15:00	14.200	403,783.156	42.485	24.483	0.011	4.953
09/10/2025 16:00	14.076	415,591.000	44.789	26.356	0.010	5.798
09/10/2025 17:00	14.103	408,040.906	44.472	24.152	0.009	2.760

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/10/2025 18:00	14.185	412090.375	44.336	24.581	0.058	2.411
09/10/2025 19:00	14.192	408415.375	44.426	25.284	0.963	3.540
09/10/2025 20:00	14.183	396023.906	44.437	25.847	1.576	3.426
09/10/2025 21:00	14.209	384439.250	44.419	25.216	1.952	4.537
09/10/2025 22:00	14.196	384636.906	44.555	24.600	2.162	7.365
09/10/2025 23:00	14.214	387960.406	44.867	26.756	2.468	6.825
10/10/2025 00:00	14.197	321391.156	35.818	21.789	2.121	7.944
10/10/2025 01:00	14.073	327084.094	36.941	21.676	0.883	13.755
10/10/2025 02:00	13.984	333745.188	37.491	20.562	0.013	15.911
10/10/2025 03:00	13.917	305081.406	32.812	19.340	0.019	10.008
10/10/2025 04:00	13.924	302652.688	32.717	17.253	0.013	16.046
10/10/2025 05:00	13.936	306383.500	33.755	19.579	0.011	13.906
10/10/2025 06:00	13.954	301732.031	33.818	20.461	0.011	15.111
10/10/2025 07:00	13.983	306893.719	33.221	19.469	0.011	15.328
10/10/2025 08:00	13.942	286625.313	31.873	17.203	0.011	11.803
10/10/2025 09:00	13.938	296799.813	33.500	19.266	0.011	10.008
10/10/2025 10:00	14.157	381776.625	44.804	28.190	0.011	4.183
10/10/2025 11:00	14.202	379582.406	44.719	29.487	0.011	2.201
10/10/2025 12:00	14.217	375200.688	44.194	26.065	0.011	1.884
10/10/2025 13:00	14.114	325404.281	30.757	22.512	0.011	1.116
10/10/2025 14:00	14.172	414174.719	45.479	29.833	0.011	3.029
10/10/2025 15:00	14.176	392969.938	43.649	27.316	0.012	8.766
10/10/2025 16:00	14.106	358231.344	41.524	27.315	0.012	9.825
10/10/2025 17:00	14.104	369906.813	43.891	26.933	0.012	20.535
10/10/2025 18:00	14.073	357323.781	42.063	22.759	0.012	9.973
10/10/2025 19:00	14.078	341593.531	41.430	24.293	0.012	5.465
10/10/2025 20:00	14.100	345373.469	42.711	25.292	0.012	8.432
10/10/2025 21:00	14.082	354892.844	43.014	25.686	0.012	5.564
10/10/2025 22:00	14.087	354360.281	42.801	25.745	0.012	1.883
10/10/2025 23:00	14.086	366470.875	43.686	26.164	0.012	1.888
11/10/2025 00:00	13.897	295942.844	34.536	22.192	0.012	10.972
11/10/2025 01:00	13.901	299355.469	33.554	21.017	0.012	13.286
11/10/2025 02:00	13.948	281725.531	31.899	20.699	0.012	10.648
11/10/2025 03:00	13.962	298826.500	32.970	19.535	0.011	11.675
11/10/2025 04:00	13.975	299077.469	32.378	18.585	0.011	7.122
11/10/2025 05:00	14.003	307490.719	32.551	19.204	0.011	15.715
11/10/2025 06:00	14.013	310168.375	31.265	25.038	0.011	15.429
11/10/2025 07:00	14.047	313767.750	29.459	23.509	0.011	6.262
11/10/2025 08:00	14.179	298815.313	27.600	22.746	0.011	3.397
11/10/2025 09:00	14.208	287359.313	26.906	23.821	0.011	3.902
11/10/2025 10:00	14.154	364318.125	40.401	23.717	0.011	3.775
11/10/2025 11:00	14.165	364514.219	40.648	24.654	0.011	2.135
11/10/2025 12:00	14.117	381932.156	39.645	25.246	0.011	1.760
11/10/2025 13:00	14.137	333870.531	29.741	25.606	0.011	2.422
11/10/2025 14:00	14.126	402474.750	42.469	26.372	0.012	5.618
11/10/2025 15:00	14.148	409275.563	43.306	25.241	0.012	3.032
11/10/2025 16:00	14.166	389691.813	42.946	25.405	0.012	3.698
11/10/2025 17:00	14.185	382101.281	43.133	24.772	0.013	3.282
11/10/2025 18:00	14.182	400458.625	44.595	26.456	0.013	3.920
11/10/2025 19:00	14.179	400346.469	44.423	27.735	0.014	2.499
11/10/2025 20:00	14.127	396573.188	43.426	26.159	0.014	4.370
11/10/2025 21:00	14.129	406273.875	45.791	26.676	0.013	3.117
11/10/2025 22:00	14.132	391228.625	43.874	27.156	0.012	7.460
11/10/2025 23:00	14.102	388503.719	43.424	26.008	0.010	7.066
12/10/2025 00:00	14.061	287741.531	29.715	26.384	0.009	6.569
12/10/2025 01:00	14.101	280553.438	29.323	24.288	0.008	13.195
12/10/2025 02:00	14.078	279574.344	30.317	23.964	0.006	11.816
12/10/2025 03:00	14.042	279511.625	30.417	25.206	0.005	15.792
12/10/2025 04:00	14.102	296768.406	28.893	23.529	0.004	12.453
12/10/2025 05:00	14.083	302967.188	29.433	24.660	0.005	10.520
12/10/2025 06:00	14.126	299907.813	29.054	24.081	0.005	3.378
12/10/2025 07:00	14.101	294152.938	28.742	24.095	0.006	2.143
12/10/2025 08:00	14.165	297347.875	27.519	23.629	0.007	2.675
12/10/2025 09:00	14.194	293071.375	27.568	23.322	0.007	2.843
12/10/2025 10:00	14.263	284967.156	27.108	24.655	0.008	2.642
12/10/2025 11:00	14.199	285258.094	26.934	22.830	0.009	2.532
12/10/2025 12:00	14.301	320924.500	25.960	22.484	0.009	2.048
12/10/2025 13:00	14.283	345547.125	24.826	22.306	0.009	2.432
12/10/2025 14:00	14.284	347360.750	25.643	22.458	0.009	2.103
12/10/2025 15:00	14.283	321865.250	25.314	23.733	0.010	10.391

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS G1 NOx@7%O2	HRS G1 SOx@7%O2	HRS G1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/10/2025 16:00	14.235	300248.813	25.822	21.662	0.010	5.011
12/10/2025 17:00	14.191	303669.750	27.601	21.226	0.010	5.012
12/10/2025 18:00	14.185	300646.750	26.690	21.410	0.010	2.892
12/10/2025 19:00	14.111	386997.281	43.540	25.262	0.011	3.614
12/10/2025 20:00	14.120	359248.250	41.982	24.644	0.011	6.629
12/10/2025 21:00	14.157	375442.375	42.781	25.132	0.011	3.325
12/10/2025 22:00	14.116	407936.125	45.270	25.907	0.011	1.890
12/10/2025 23:00	14.097	384821.688	42.892	27.255	0.011	2.390
13/10/2025 00:00	14.090	320330.094	30.532	25.696	0.011	2.363
13/10/2025 01:00	14.131	297988.781	28.552	25.355	0.011	3.073
13/10/2025 02:00	14.123	294793.906	28.171	24.399	0.010	5.812
13/10/2025 03:00	14.163	291064.313	27.990	23.105	0.010	5.365
13/10/2025 04:00	14.083	303309.219	29.754	24.448	0.011	6.879
13/10/2025 05:00	14.178	270074.250	27.293	24.324	0.011	8.347
13/10/2025 06:00	14.059	283422.844	29.292	25.566	0.011	8.289
13/10/2025 07:00	14.109	288625.500	28.577	25.555	0.012	3.228
13/10/2025 08:00	14.214	282064.406	27.003	22.842	0.012	3.403
13/10/2025 09:00	14.151	291895.031	27.539	21.897	0.013	1.786
13/10/2025 10:00	14.225	332805.906	26.590	23.202	0.013	1.650
13/10/2025 11:00	14.237	372437.344	26.568	23.009	0.014	1.380
13/10/2025 12:00	14.184	358292.688	27.064	23.100	0.014	1.794
13/10/2025 13:00	14.154	355114.375	30.083	24.515	0.014	6.016
13/10/2025 14:00	14.128	425875.000	40.625	23.737	0.014	3.078
13/10/2025 15:00	14.196	439863.844	41.754	25.966	0.014	3.134
13/10/2025 16:00	14.161	434540.813	44.732	26.790	0.014	3.399
13/10/2025 17:00	14.113	395484.781	44.157	26.970	0.014	7.444
13/10/2025 18:00	14.109	392011.313	45.035	25.603	0.014	18.015
13/10/2025 19:00	14.096	389726.063	44.839	26.162	0.014	4.946
13/10/2025 20:00	14.075	385425.844	44.014	26.546	0.014	9.344
13/10/2025 21:00	14.123	385832.844	43.912	27.911	0.013	16.326
13/10/2025 22:00	14.088	388312.531	44.213	25.678	0.012	13.601
13/10/2025 23:00	14.096	385245.594	44.065	24.633	0.012	3.041
14/10/2025 00:00	14.003	315899.281	30.851	26.613	0.011	2.009
14/10/2025 01:00	14.048	315349.938	29.611	26.111	0.010	2.621
14/10/2025 02:00	14.092	309314.094	30.935	25.145	0.010	14.522
14/10/2025 03:00	14.032	311949.094	30.581	25.974	0.009	11.855
14/10/2025 04:00	14.095	303643.969	29.153	25.022	0.008	13.347
14/10/2025 05:00	14.095	303913.594	29.140	24.026	0.008	19.932
14/10/2025 06:00	13.999	301508.875	29.439	21.925	0.007	10.527
14/10/2025 07:00	14.070	303534.000	28.984	23.999	0.006	4.295
14/10/2025 08:00	14.055	310698.656	29.628	25.546	0.005	4.434
14/10/2025 09:00	14.045	326868.250	30.041	25.992	0.005	2.622
14/10/2025 10:00	14.962	419897.844	43.310	35.942	1.176	0.945
14/10/2025 11:00	14.862	317649.094	32.542	28.326	1.020	2.504
14/10/2025 12:00	14.971	402151.875	45.033	41.080	1.290	3.688
14/10/2025 13:00	14.923	384233.531	44.313	34.115	0.672	5.511
14/10/2025 14:00	14.932	374552.094	44.428	34.390	0.950	7.888
14/10/2025 15:00	14.921	369772.688	43.849	34.513	1.139	5.837
14/10/2025 16:00	14.906	380721.656	44.848	36.064	1.276	4.724
14/10/2025 17:00	14.898	368891.750	43.374	33.744	1.188	3.744
14/10/2025 18:00	14.884	384576.594	44.717	34.608	1.112	2.542
14/10/2025 19:00	14.870	382438.875	45.062	34.136	0.976	3.252
14/10/2025 20:00	14.865	378630.750	45.201	36.976	0.948	8.618
14/10/2025 21:00	14.690	286750.969	31.796	27.403	1.081	3.645
15/10/2025 00:00	14.806	278955.656	30.975	30.803	1.102	3.625
15/10/2025 01:00	14.783	291270.000	32.818	29.832	1.140	10.604
15/10/2025 02:00	14.802	281897.781	31.666	31.314	1.213	20.606
15/10/2025 03:00	14.788	279224.094	30.845	32.745	1.162	14.394
15/10/2025 04:00	14.750	288702.063	32.439	25.513	1.084	20.043
15/10/2025 05:00	14.757	294024.906	32.430	25.386	0.955	7.890
15/10/2025 06:00	14.784	286361.438	31.044	32.392	0.963	3.129
15/10/2025 07:00	14.909	284686.406	28.442	30.292	1.082	5.985
15/10/2025 08:00	14.933	300790.063	28.592	31.946	0.974	2.624
15/10/2025 09:00	14.998	413171.031	42.459	32.912	0.667	1.649
15/10/2025 10:00	14.977	418150.000	40.930	31.538	0.252	1.873
15/10/2025 11:00	14.952	417151.125	44.640	36.702	0.530	0.841
15/10/2025 12:00	14.941	348831.000	28.576	31.835	0.779	2.398
15/10/2025 13:00	14.912	425187.469	45.049	36.492	0.551	2.489
15/10/2025 14:00	14.945	388296.188	45.187	34.694	0.427	7.454
15/10/2025 15:00	14.895	380752.719	46.203	38.105	0.627	13.095

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/10/2025 17:00	14.945	382810.188	46.170	37.130	0.517	14.060
15/10/2025 18:00	14.872	374645.500	45.460	39.106	0.747	15.977
15/10/2025 19:00	14.943	368908.875	44.714	34.975	0.836	20.873
15/10/2025 20:00	14.904	358628.563	43.320	32.171	0.658	24.459
15/10/2025 21:00	14.908	363424.688	44.355	32.905	0.586	24.919
15/10/2025 22:00	14.916	361729.469	44.281	32.456	0.577	24.905
15/10/2025 23:00	14.880	368246.344	44.887	34.099	0.761	20.151
16/10/2025 00:00	14.817	276985.188	31.089	32.505	0.791	23.220
16/10/2025 01:00	14.759	278934.281	31.039	32.412	0.930	24.659
16/10/2025 02:00	14.731	282377.531	31.305	26.075	0.875	23.902
16/10/2025 03:00	14.735	284900.875	31.751	26.063	0.964	15.687
16/10/2025 04:00	14.840	276511.188	30.129	33.154	1.187	19.550
16/10/2025 05:00	14.768	283214.250	32.050	28.693	1.146	15.059
16/10/2025 06:00	14.821	282753.969	31.658	29.790	1.033	16.825
16/10/2025 07:00	14.871	281610.969	31.038	34.083	1.186	19.036
16/10/2025 08:00	14.893	266304.094	29.284	32.869	0.934	14.904
16/10/2025 09:00	14.887	285995.313	31.539	32.294	0.823	8.137
16/10/2025 10:00	14.999	385053.219	43.962	35.707	0.660	3.914
16/10/2025 11:00	15.024	384049.000	44.619	38.049	0.544	2.848
16/10/2025 12:00	14.979	380744.250	44.311	38.349	0.530	2.171
16/10/2025 13:00	14.861	324126.125	33.808	28.700	0.453	1.351
16/10/2025 14:00	15.051	382781.188	43.862	39.496	0.509	1.037
16/10/2025 15:00	15.040	377491.719	43.557	37.920	0.375	1.604
16/10/2025 16:00	15.041	390336.844	43.604	38.923	0.390	1.129
16/10/2025 17:00	15.069	398426.219	42.779	37.689	0.575	1.409
16/10/2025 18:00	15.055	384780.250	42.726	33.183	0.588	0.777
16/10/2025 19:00	15.030	386478.938	43.359	35.853	0.913	0.880
16/10/2025 20:00	14.953	362524.938	40.631	31.689	0.500	1.598
16/10/2025 21:00	14.928	355798.781	40.866	33.433	1.161	5.031
16/10/2025 22:00	14.957	363330.375	42.476	34.075	1.059	6.419
16/10/2025 23:00	14.928	387298.281	46.627	34.003	0.860	6.513
17/10/2025 00:00	14.750	305489.406	34.986	30.982	1.034	4.622
17/10/2025 01:00	14.768	323377.500	36.070	27.883	0.735	4.988
17/10/2025 02:00	14.745	314151.656	34.330	29.892	1.249	4.950
17/10/2025 03:00	14.756	304218.156	34.549	29.033	0.919	4.759
17/10/2025 04:00	14.727	308023.406	34.314	29.350	1.173	7.650
17/10/2025 05:00	14.756	308519.781	34.820	30.090	1.258	13.072
17/10/2025 06:00	14.787	317364.969	35.972	29.265	1.114	12.391
17/10/2025 07:00	14.764	307084.688	34.805	27.862	0.765	6.643
17/10/2025 08:00	14.776	302774.125	32.424	27.075	1.079	7.813
17/10/2025 09:00	14.837	284774.438	31.726	26.728	0.803	4.278
17/10/2025 10:00	14.998	377928.625	44.616	38.682	0.588	2.449
17/10/2025 11:00	15.067	379119.563	43.564	37.162	0.492	0.983
17/10/2025 12:00	14.998	390951.250	43.736	39.652	0.381	1.042
17/10/2025 13:00	14.958	281919.531	31.927	26.336	0.262	0.466
17/10/2025 14:00	15.004	381108.594	43.316	39.358	0.288	0.809
17/10/2025 15:00	15.072	395008.438	43.212	36.177	0.303	0.461
17/10/2025 16:00	15.034	393751.594	43.654	39.242	0.324	0.791
17/10/2025 17:00	15.045	396452.156	44.013	39.076	0.487	1.071
17/10/2025 18:00	15.005	395556.875	44.514	38.875	0.270	2.032
17/10/2025 19:00	14.998	378898.938	43.188	34.987	0.841	3.864
17/10/2025 20:00	14.987	380735.750	43.940	34.210	0.748	5.687
17/10/2025 21:00	14.965	386597.000	44.032	33.506	0.785	4.568
17/10/2025 22:00	14.997	388232.469	44.280	35.485	1.095	2.357
17/10/2025 23:00	14.935	395725.844	44.716	37.649	0.734	1.783
18/10/2025 00:00	14.799	336406.781	36.219	31.127	1.078	1.728
18/10/2025 01:00	14.732	331369.406	34.832	27.923	0.602	2.803
18/10/2025 02:00	14.718	321725.781	34.159	28.957	1.025	4.378
18/10/2025 03:00	14.758	325502.094	35.652	28.725	0.671	6.165
18/10/2025 04:00	14.751	314379.906	34.348	28.912	1.144	9.947
18/10/2025 05:00	14.742	316412.594	35.490	27.676	0.763	11.673
18/10/2025 06:00	14.754	318074.375	35.803	26.296	0.397	9.190
18/10/2025 07:00	14.717	312724.188	34.485	26.516	0.757	15.474
18/10/2025 08:00	14.818	299441.219	30.732	28.609	0.995	7.891
18/10/2025 09:00	14.784	318684.094	33.268	24.612	0.773	4.332
18/10/2025 10:00	14.996	405230.094	44.558	36.253	0.494	2.829
18/10/2025 11:00	15.024	402527.844	44.000	36.278	0.532	1.887
18/10/2025 12:00	14.910	368863.156	44.417	36.873	0.624	0.526
18/10/2025 13:00	14.861	259589.391	30.635	31.001	0.658	7.433
18/10/2025 14:00	14.936	355487.719	44.776	36.164	0.840	10.138

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/10/2025 15:00	14.890	392631.781	45.314	36.024	0.503	5.653
18/10/2025 16:00	14.932	380790.500	44.848	35.777	0.908	6.738
18/10/2025 17:00	14.920	381680.594	45.726	35.751	1.019	3.578
18/10/2025 18:00	14.864	366439.688	45.630	36.231	0.745	4.803
18/10/2025 19:00	14.883	390998.688	45.568	35.538	0.561	5.179
18/10/2025 20:00	14.918	395074.094	44.727	33.263	0.792	3.003
18/10/2025 21:00	14.913	396482.906	44.437	32.038	0.457	2.472
18/10/2025 22:00	14.853	404652.125	46.245	35.187	1.061	2.958
18/10/2025 23:00	14.880	398300.031	45.088	34.211	0.841	3.989
19/10/2025 00:00	14.609	309697.094	33.848	26.930	0.600	14.140
19/10/2025 01:00	14.690	303192.875	33.459	25.456	0.729	21.928
19/10/2025 02:00	14.689	305118.719	34.107	26.956	0.998	21.203
19/10/2025 03:00	14.733	319138.125	35.992	27.202	1.171	14.066
19/10/2025 04:00	14.671	302550.063	33.535	27.151	1.026	15.721
19/10/2025 05:00	14.715	274928.969	33.879	25.439	1.007	12.672
19/10/2025 06:00	14.708	271003.844	33.128	26.680	1.136	16.272
19/10/2025 07:00	14.733	262700.570	31.672	27.119	1.007	20.348
19/10/2025 08:00	14.873	264512.625	30.520	31.427	0.679	7.737
19/10/2025 09:00	14.884	261457.109	30.376	32.895	0.969	2.786
19/10/2025 10:00	14.878	271162.000	31.632	25.696	0.783	1.620
19/10/2025 11:00	14.887	280754.156	32.578	25.414	0.448	1.068
19/10/2025 12:00	14.944	279206.250	29.726	30.615	0.656	0.841
19/10/2025 13:00	14.924	286382.906	29.873	34.112	0.406	0.922
19/10/2025 14:00	14.964	287948.781	30.015	31.254	0.335	0.477
19/10/2025 15:00	14.893	278331.344	31.437	24.477	0.070	1.112
19/10/2025 16:00	14.905	282799.438	31.360	25.633	0.391	1.628
19/10/2025 17:00	14.845	289615.500	33.012	24.709	0.541	3.613
19/10/2025 18:00	14.778	306335.906	32.246	28.888	0.985	5.288
19/10/2025 19:00	14.943	406151.500	45.501	39.420	0.885	3.256
19/10/2025 20:00	14.922	405460.063	45.718	38.182	0.918	2.683
19/10/2025 21:00	14.907	411641.719	45.668	37.944	0.875	2.946
19/10/2025 22:00	14.890	413553.500	45.856	37.586	0.813	4.174
19/10/2025 23:00	14.874	420434.938	46.193	37.243	0.771	2.672
20/10/2025 00:00	14.783	308671.906	31.950	29.012	0.945	4.913
20/10/2025 01:00	14.758	289435.719	31.538	25.637	0.955	8.926
20/10/2025 02:00	14.736	285320.406	32.305	23.886	0.806	11.822
20/10/2025 03:00	14.738	287327.938	33.514	23.819	0.731	13.711
20/10/2025 04:00	14.727	276328.563	32.124	23.392	0.619	16.044
20/10/2025 05:00	14.762	265411.656	31.235	29.701	0.992	12.969
20/10/2025 06:00	14.709	278317.781	33.551	28.006	1.178	9.447
20/10/2025 07:00	14.745	290152.469	34.574	27.244	0.922	7.273
20/10/2025 08:00	14.759	277127.031	31.992	24.940	0.934	6.783
20/10/2025 09:00	14.794	286743.406	32.546	28.418	0.796	3.709
20/10/2025 10:00	14.988	379832.719	44.962	58.244	0.703	2.938
20/10/2025 11:00	15.009	382422.094	44.124	37.254	0.626	3.050
20/10/2025 12:00	15.007	373077.844	44.118	37.040	0.499	2.196
20/10/2025 13:00	14.986	284629.625	30.382	34.131	0.745	1.688
20/10/2025 14:00	14.975	386568.813	44.634	37.448	0.623	1.730
20/10/2025 15:00	14.918	394329.625	46.105	39.060	0.582	14.320
20/10/2025 16:00	14.984	379660.625	44.275	36.318	0.962	16.980
20/10/2025 17:00	14.975	397138.094	45.333	35.817	0.624	11.215
20/10/2025 18:00	14.949	399636.438	44.839	36.022	1.222	9.955
20/10/2025 19:00	14.934	390090.875	44.825	34.649	1.012	6.427
20/10/2025 20:00	14.924	382072.313	44.643	32.877	0.553	7.501
20/10/2025 21:00	14.933	382818.156	44.607	34.793	1.083	2.705
20/10/2025 22:00	14.934	372433.469	45.254	36.142	0.934	2.938
20/10/2025 23:00	14.922	377779.188	46.225	36.467	0.959	22.078
21/10/2025 00:00	14.735	299775.813	35.615	30.598	1.005	6.312
21/10/2025 01:00	14.710	302322.063	35.940	28.893	1.087	4.911
21/10/2025 02:00	14.726	301178.594	36.575	29.585	1.142	14.571
21/10/2025 03:00	14.736	298621.313	36.158	28.252	1.101	20.454
21/10/2025 04:00	14.761	303604.156	36.666	28.550	1.136	21.912
21/10/2025 05:00	14.721	299867.938	35.617	28.430	1.188	17.627
21/10/2025 06:00	14.717	300480.813	35.978	28.347	1.139	11.987
21/10/2025 07:00	14.710	295193.031	35.435	29.163	1.153	14.421
21/10/2025 08:00	14.734	284865.688	33.478	27.183	1.030	12.031
21/10/2025 09:00	14.808	294765.063	34.663	28.293	0.841	4.674
21/10/2025 10:00	15.011	375354.906	44.989	40.127	0.791	2.576
21/10/2025 11:00	15.005	373452.688	44.437	40.313	0.628	1.406
21/10/2025 12:00	14.935	335449.188	37.948	33.142	0.594	1.045

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/10/2025 13:00	15.647	231758.547	17.095	32.374	0.693	2.000
21/10/2025 14:00	14.907	323065.094	36.029	30.978	0.393	1.455
21/10/2025 15:00	14.920	309690.125	35.599	31.128	0.384	0.580
21/10/2025 16:00	15.034	350126.406	40.191	33.607	0.468	1.694
21/10/2025 17:00	15.022	357406.656	38.975	33.694	0.589	1.319
21/10/2025 18:00	15.028	361083.219	40.308	35.178	0.981	0.757
21/10/2025 19:00	14.985	360618.313	41.670	35.014	0.950	0.726
21/10/2025 20:00	14.964	346114.406	39.753	32.551	0.684	1.935
21/10/2025 21:00	14.959	350055.656	40.435	34.522	1.252	1.300
21/10/2025 22:00	14.975	369571.313	42.421	33.567	0.774	3.048
21/10/2025 23:00	14.946	358784.219	42.622	33.787	1.133	3.291
22/10/2025 00:00	14.942	380515.219	45.443	38.952	0.780	3.442
22/10/2025 01:00	14.963	362287.844	43.146	35.920	1.280	2.549
22/10/2025 02:00	14.970	353733.063	43.261	35.425	1.190	2.285
22/10/2025 03:00	14.977	361205.875	43.277	35.625	1.056	2.197
22/10/2025 04:00	14.975	360494.031	43.140	35.074	0.920	2.289
22/10/2025 05:00	14.974	358010.594	43.213	36.511	1.109	1.924
22/10/2025 06:00	14.965	360324.719	43.147	36.822	1.139	2.073
22/10/2025 07:00	14.966	362359.594	43.065	36.452	1.147	4.299
22/10/2025 08:00	14.971	367738.188	43.111	37.442	1.285	3.415
22/10/2025 09:00	14.955	388894.656	45.670	41.176	0.754	2.877
22/10/2025 10:00	14.918	341779.063	38.224	33.382	0.979	2.219
22/10/2025 11:00	14.944	341846.625	38.118	32.716	0.714	1.750
22/10/2025 12:00	14.897	341812.344	36.859	32.374	0.616	1.467
22/10/2025 13:00	15.170	272493.906	24.282	40.474	0.607	1.237
22/10/2025 14:00	15.000	359415.531	39.217	32.643	0.467	0.902
22/10/2025 15:00	15.055	371270.438	40.428	33.614	0.185	1.281
22/10/2025 16:00	15.020	372313.125	40.135	33.852	0.419	1.511
22/10/2025 17:00	15.017	358309.969	39.577	33.382	0.482	0.799
22/10/2025 18:00	14.976	369201.594	41.688	33.239	0.613	1.678
22/10/2025 19:00	14.980	371948.000	42.091	33.863	0.723	2.035
22/10/2025 20:00	14.960	354382.313	40.523	34.729	1.138	2.043
22/10/2025 21:00	14.974	358106.188	41.258	33.874	0.630	1.969
22/10/2025 22:00	14.955	357798.531	41.475	35.597	1.054	3.039
22/10/2025 23:00	14.966	368308.344	42.615	35.624	0.720	2.399
23/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/10/2025 10:00	14.988	355676.438	40.624	35.193	1.434	1.758
23/10/2025 11:00	15.035	345900.750	40.254	36.440	1.227	1.545
23/10/2025 12:00	14.987	342443.813	39.154	37.178	1.152	1.560
23/10/2025 13:00	15.123	271855.594	25.818	34.075	1.140	0.818
23/10/2025 14:00	15.052	365437.313	41.574	36.128	1.053	1.228
23/10/2025 15:00	15.013	364265.969	40.465	37.299	1.031	1.588
23/10/2025 16:00	15.040	371607.063	41.479	38.266	1.048	1.221
23/10/2025 17:00	15.024	377921.875	42.017	38.198	1.182	1.216
23/10/2025 18:00	15.015	367019.969	41.279	37.678	1.426	1.173
23/10/2025 19:00	14.990	356168.250	41.278	38.124	1.565	2.322
23/10/2025 20:00	14.988	355905.313	41.278	36.094	1.135	3.222
23/10/2025 21:00	14.975	354257.406	42.134	37.718	1.542	3.852
23/10/2025 22:00	14.949	362056.000	42.748	37.155	1.275	4.269
23/10/2025 23:00	14.933	350957.406	41.566	34.781	0.963	4.076
24/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/10/2025 10:00	14.998	345676.563	40.165	43.231	3.101	3.193

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS11_NOx@7%O2	HRS11_SOx@7%O2	HRS11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/10/2025 11:00	14.987	358410.344	40.439	36.937	1.211	2.662
24/10/2025 12:00	14.953	342255.813	38.236	35.136	1.034	2.291
24/10/2025 13:00	15.197	282569.219	25.020	39.167	0.826	1.636
24/10/2025 14:00	14.995	368491.313	39.433	34.720	0.671	1.539
24/10/2025 15:00	15.113	394354.000	42.021	37.267	0.459	0.922
24/10/2025 16:00	15.080	377301.781	40.523	46.081	3.374	1.792
24/10/2025 17:00	15.041	380872.500	40.139	43.097	3.621	1.716
24/10/2025 18:00	15.012	394228.063	41.142	42.881	3.593	2.221
24/10/2025 19:00	14.980	380198.656	40.178	42.915	4.022	1.361
24/10/2025 20:00	14.930	359418.281	39.843	33.513	1.417	0.750
24/10/2025 21:00	14.952	368461.125	41.161	33.311	0.889	3.824
24/10/2025 22:00	14.905	360767.938	41.087	33.493	1.228	5.227
24/10/2025 23:00	14.911	352874.125	41.556	33.767	0.905	5.524
25/10/2025 00:00	14.957	378786.625	45.943	40.513	1.422	5.234
25/10/2025 01:00	14.930	362597.156	43.161	35.118	1.135	5.743
25/10/2025 02:00	14.929	363060.438	43.324	35.391	1.103	5.705
25/10/2025 03:00	14.928	361759.969	43.130	35.387	1.026	6.575
25/10/2025 04:00	14.928	361596.406	43.200	37.444	1.530	4.842
25/10/2025 05:00	14.934	360.456	43.151	37.258	1.435	4.913
25/10/2025 06:00	14.946	362.755	43.097	37.367	1.428	4.308
25/10/2025 07:00	14.957	363.888	43.092	36.748	1.301	4.767
25/10/2025 08:00	14.953	363.267	42.976	35.711	0.909	3.285
25/10/2025 09:00	14.941	382.229	46.828	43.250	1.390	2.577
25/10/2025 10:00	14.875	338.963	41.292	33.406	1.058	9.549
25/10/2025 11:00	14.921	346.167	41.450	33.957	0.990	4.340
25/10/2025 12:00	14.859	335.700	40.512	33.098	1.020	3.131
25/10/2025 13:00	15.038	259.542	25.942	31.968	1.165	2.682
25/10/2025 14:00	14.882	350.381	39.269	30.739	0.582	1.822
25/10/2025 15:00	14.988	360.300	40.653	33.292	0.845	1.272
25/10/2025 16:00	14.982	369.817	41.856	35.233	0.942	0.533
25/10/2025 17:00	14.977	364.270	41.136	33.699	0.905	1.206
25/10/2025 18:00	14.969	345.131	40.008	32.459	0.779	1.502
25/10/2025 19:00	14.964	360.910	41.407	32.048	0.613	1.221
25/10/2025 20:00	14.933	348.606	39.141	32.332	0.824	2.538
25/10/2025 21:00	14.912	336.845	39.661	31.876	0.733	1.904
25/10/2025 22:00	14.895	333.842	39.256	32.728	1.098	1.540
25/10/2025 23:00	14.914	352.598	41.153	32.230	0.885	2.723
26/10/2025 00:00	14.732	314.868	35.521	28.185	0.510	4.588
26/10/2025 01:00	14.761	319.302	36.330	27.787	0.778	4.752
26/10/2025 02:00	14.781	315.391	36.124	30.579	1.101	2.630
26/10/2025 03:00	14.774	305.559	34.519	30.402	1.167	3.609
26/10/2025 04:00	14.754	301.723	34.473	29.659	0.934	3.727
26/10/2025 05:00	14.787	299.970	34.127	29.113	0.792	3.545
26/10/2025 06:00	14.775	301.716	34.111	29.179	0.843	3.745
26/10/2025 07:00	14.816	281.190	31.830	29.188	1.156	3.762
26/10/2025 08:00	14.934	283.295	30.577	37.219	0.912	3.171
26/10/2025 09:00	14.914	288.720	30.887	36.051	1.099	3.397
26/10/2025 10:00	14.953	283.406	29.846	35.866	0.704	3.178
26/10/2025 11:00	14.934	291.125	29.841	29.751	0.598	2.043
26/10/2025 12:00	14.988	292.745	29.673	35.398	0.539	1.875
26/10/2025 13:00	14.896	294.681	30.662	30.504	0.382	1.080
26/10/2025 14:00	14.847	304.984	37.395	27.222	0.435	1.712
26/10/2025 15:00	14.848	310.111	33.116	28.623	0.337	1.655
26/10/2025 16:00	14.891	297.695	32.088	27.626	0.520	1.501
26/10/2025 17:00	14.831	307.996	33.323	29.187	0.476	1.338
26/10/2025 18:00	14.985	390.854	45.226	37.373	0.344	2.363
26/10/2025 19:00	14.968	391.043	45.705	39.758	0.621	3.366
26/10/2025 20:00	14.952	400.316	46.001	39.773	0.732	4.270
26/10/2025 21:00	14.928	394.804	46.112	39.290	0.683	4.706
26/10/2025 22:00	14.876	345.933	38.734	31.543	0.532	4.860
26/10/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS11_NOx@7%O2	HRS11_SOx@7%O2	HRS11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/10/2025 10:00	14.934	349.352	38.774	33.539	1.285	2.376
27/10/2025 11:00	14.915	329.212	36.803	33.156	1.106	2.577
27/10/2025 12:00	14.891	335.199	37.260	33.462	0.952	1.916
27/10/2025 13:00	15.215	270.270	24.051	45.929	0.744	1.966
27/10/2025 14:00	14.986	351.961	39.704	33.946	0.866	2.004
27/10/2025 15:00	15.000	358.766	41.096	34.329	0.812	1.760
27/10/2025 16:00	14.977	346.174	39.210	35.391	0.900	1.852
27/10/2025 17:00	14.938	360.747	40.423	33.632	0.758	2.260
27/10/2025 18:00	14.898	355.760	39.158	34.609	1.426	4.219
27/10/2025 19:00	14.903	347.049	39.740	32.142	0.943	4.002
27/10/2025 20:00	14.898	343.475	38.444	33.534	1.196	4.651
27/10/2025 21:00	14.901	334.860	40.107	33.237	1.088	5.179
27/10/2025 22:00	14.876	337.107	39.590	32.961	0.954	4.725
27/10/2025 23:00	14.875	341.905	39.646	33.936	1.035	5.744
28/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/10/2025 10:00	14.880	344.692	39.116	31.367	1.025	4.695
28/10/2025 11:00	14.915	347.239	39.271	33.859	1.381	3.700
28/10/2025 12:00	14.846	336.620	37.890	33.316	1.607	3.061
28/10/2025 13:00	15.138	277.853	24.946	34.742	1.322	2.446
28/10/2025 14:00	14.882	349.643	38.349	31.963	1.048	2.208
28/10/2025 15:00	14.924	357.638	38.423	31.400	0.661	2.217
28/10/2025 16:00	14.972	352.883	39.609	34.802	1.044	2.056
28/10/2025 17:00	14.977	372.220	39.680	34.586	1.119	1.831
28/10/2025 18:00	14.924	367.168	39.088	32.391	0.782	2.457
28/10/2025 19:00	14.917	351.977	39.369	33.573	1.296	2.677
28/10/2025 20:00	14.882	330.935	38.167	32.850	1.197	3.189
28/10/2025 21:00	14.880	337.744	38.744	32.507	0.987	3.796
28/10/2025 22:00	14.899	344.791	39.341	33.034	1.071	4.064
28/10/2025 23:00	14.939	369559.656	40.897	34.338	1.317	2.363
29/10/2025 00:00	14.987	392837.031	45.930	40.335	1.115	3.995
29/10/2025 01:00	14.929	379216.375	43.202	36.559	1.283	5.069
29/10/2025 02:00	14.926	379350.438	43.253	35.469	1.162	4.727
29/10/2025 03:00	14.924	376998.844	43.043	35.503	0.918	4.454
29/10/2025 04:00	14.926	371250.719	43.190	35.126	1.111	8.241
29/10/2025 05:00	14.931	368528.188	43.152	35.686	1.310	6.801
29/10/2025 06:00	14.939	375649.594	43.221	36.818	1.431	6.559
29/10/2025 07:00	14.953	372548.688	43.351	35.565	1.293	6.241
29/10/2025 08:00	14.966	373424.500	43.017	35.014	0.971	5.007
29/10/2025 09:00	14.946	395047.188	45.194	38.403	0.663	4.085
29/10/2025 10:00	14.884	343232.969	37.777	31.792	0.970	2.992
29/10/2025 11:00	14.906	351.951	38.389	32.036	0.747	1.958
29/10/2025 12:00	14.815	330.621	37.199	30.917	0.661	2.724
29/10/2025 13:00	15.164	271.820	24.047	45.341	1.210	3.452
29/10/2025 14:00	14.836	350.722	39.010	29.914	0.793	3.885
29/10/2025 15:00	14.833	333.459	38.389	29.842	0.744	5.098
29/10/2025 16:00	14.851	343.608	39.328	30.929	0.993	6.587
29/10/2025 17:00	14.859	346.360	38.880	30.898	0.900	7.948
29/10/2025 18:00	14.815	343.835	38.994	29.421	0.754	9.865
29/10/2025 19:00	14.789	338.976	38.497	30.947	1.059	7.916
29/10/2025 20:00	14.791	342.418	38.387	30.588	1.117	6.368
29/10/2025 21:00	14.779	338.051	38.299	30.340	1.052	8.212
29/10/2025 22:00	14.846	352.786	39.981	30.545	0.943	6.438
29/10/2025 23:00	14.854	352767.281	39.242	31.396	0.917	4.906
30/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Oct/25 00:00 - 31/Oct/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/10/2025 10:00	14.869	344,957	38.332	31.269	1.263	5.970
30/10/2025 11:00	14.883	358,126	39.590	32.974	1.384	5.209
30/10/2025 12:00	14.816	343,887	37.920	31.528	1.090	4.823
30/10/2025 13:00	14.991	290,702	26.478	31.543	1.358	4.607
30/10/2025 14:00	14.875	364,471	40.074	31.792	1.183	4.484
30/10/2025 15:00	14.924	364,720	40.315	31.617	0.952	4.331
30/10/2025 16:00	14.943	370,460	41.240	33.283	1.288	3.851
30/10/2025 17:00	14.916	365,175	40.887	32.733	1.251	3.116
30/10/2025 18:00	14.913	359,813	40.101	31.045	0.918	2.333
30/10/2025 19:00	14.896	354,738	39.070	31.563	1.117	2.350
30/10/2025 20:00	14.863	352,103	38.814	30.035	0.712	5.779
30/10/2025 21:00	14.879	356,531	40.258	32.514	1.318	9.176
30/10/2025 22:00	14.852	354,344	40.140	31.149	1.081	9.118
30/10/2025 23:00	14.823	360,129	40.536	30.145	0.774	11.433
31/10/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/10/2025 10:00	14.914	361,194	38.395	31.050	1.449	1.513
31/10/2025 11:00	14.944	377,347	38.999	32.138	1.276	0.997
31/10/2025 12:00	14.787	383,378	38.567	31.146	1.525	6.797
31/10/2025 13:00	15.055	318,948	25.614	31.884	1.403	5.779
31/10/2025 14:00	14.832	380,842	38.896	29.380	1.305	14.864
31/10/2025 15:00	14.828	398,797	39.919	31.543	1.379	8.884
31/10/2025 16:00	14.866	411,367	40.165	29.835	0.714	4.649
31/10/2025 17:00	14.842	381,615	38.670	30.603	1.019	4.070
31/10/2025 18:00	14.828	389,228	38.645	29.200	0.811	17.716
31/10/2025 19:00	14.798	373,722	38.203	29.555	1.042	5.079
31/10/2025 20:00	14.780	361,462	38.361	29.780	0.974	2.639
31/10/2025 21:00	14.806	366,505	37.998	26.499	0.147	2.577
31/10/2025 22:00	14.804	368,562	39.878	30.058	1.099	2.290
31/10/2025 23:00	14.828	370595	39.276	28.227	0.702	3.240
Minimum	13.83	231,759	17.09	0.00	0.00	0.44
Maximum	15.65	439,864	46.83	46.08	4.02	24.92
Avg	14.48	346,937	38.21	28.93	0.54	5.70
SUM						
STD				60	5	28

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
01/11/2025 14:00	14.797	327,309	39.473	16.113	0.004	8.891
01/11/2025 15:00	14.874	334,408	40.409	15.913	0.004	8.692
01/11/2025 16:00	14.890	331,847	39.939	15.476	0.004	8.469
01/11/2025 17:00	14.877	331,919	39.966	15.325	0.003	8.718
01/11/2025 18:00	14.856	313,323	37.860	15.254	0.003	9.158
01/11/2025 19:00	14.856	329,734	39.870	16.489	0.003	9.347
01/11/2025 20:00	14.803	322,138	39.519	15.685	0.003	8.791
01/11/2025 21:00	14.828	321,684	39.175	15.911	0.002	9.711
01/11/2025 22:00	14.846	370,902	45.735	23.002	0.002	10.463
01/11/2025 23:00	14.917	355383.031	43.720	17.743	0.001	10.547
02/11/2025 00:00	14.914	354398.813	43.628	16.783	0.000	9.574
02/11/2025 01:00	14.911	351338.969	43.363	16.822	0.000	9.268
02/11/2025 02:00	14.908	351226.969	43.405	16.850	0.000	9.608
02/11/2025 03:00	14.905	352136.625	43.440	17.320	0.000	9.343
02/11/2025 04:00	14.903	350954.938	43.435	17.012	0.000	9.564
02/11/2025 05:00	14.900	350033.406	43.393	17.507	0.000	9.455
02/11/2025 06:00	14.905	348097.906	43.421	16.875	0.000	9.513
02/11/2025 07:00	14.910	348647.094	43.246	17.363	0.000	9.151
02/11/2025 08:00	14.915	349037.875	43.230	17.732	0.000	9.055
02/11/2025 09:00	14.920	352076.219	43.295	15.664	0.000	8.781
02/11/2025 10:00	14.935	350875.594	43.268	16.789	0.000	8.901
02/11/2025 11:00	14.954	352961.563	43.178	17.066	0.001	9.105
02/11/2025 12:00	14.975	356179.406	43.273	17.915	0.001	9.252
02/11/2025 13:00	14.915	350,895	43.165	17.494	0.002	15.855
02/11/2025 14:00	14.895	350,588	43.269	18.398	0.002	9.845
02/11/2025 15:00	14.931	351,961	43.313	18.688	0.002	9.111
02/11/2025 16:00	14.910	349,307	43.305	17.421	0.003	9.114
02/11/2025 17:00	14.890	350,027	43.350	16.710	0.002	9.237
02/11/2025 18:00	14.873	372,186	46.381	20.981	0.002	9.285
02/11/2025 19:00	14.786	317,951	38.746	15.924	0.002	8.702
02/11/2025 20:00	14.808	317,946	38.554	15.513	0.001	8.705
02/11/2025 21:00	14.810	328,662	40.019	16.182	0.001	8.764
02/11/2025 22:00	14.644	280,094	33.932	14.199	0.001	8.467
02/11/2025 23:00	14.741	278511.656	33.222	13.207	0.000	9.080
03/11/2025 00:00	14.716	270853.125	31.875	11.962	0.000	10.569
03/11/2025 01:00	14.724	278318.938	33.903	11.103	0.000	12.441
03/11/2025 02:00	14.755	282327.688	33.572	11.624	0.000	9.567
03/11/2025 03:00	14.681	280472.875	33.304	11.778	0.000	11.986
03/11/2025 04:00	14.758	278251.875	32.239	16.291	0.000	11.586
03/11/2025 05:00	14.745	270479.188	31.605	21.557	0.002	9.831
03/11/2025 06:00	14.719	276453.813	32.997	12.901	0.004	10.537
03/11/2025 07:00	14.728	282621.000	34.054	12.949	0.004	13.026
03/11/2025 08:00	14.773	272387.375	31.897	14.549	0.003	11.369
03/11/2025 09:00	14.733	282643.469	33.971	13.619	0.002	9.638
03/11/2025 10:00	14.808	299795.500	35.680	13.256	0.002	9.352
03/11/2025 11:00	14.783	279346.875	33.093	13.057	0.001	8.655
03/11/2025 12:00	14.862	273894.438	31.620	14.445	0.000	8.594
03/11/2025 13:00	14.911	266,145	30.045	25.376	0.000	8.520
03/11/2025 14:00	14.922	339,861	40.294	14.712	0.000	8.853
03/11/2025 15:00	14.860	338,242	40.671	15.150	0.000	9.876
03/11/2025 16:00	14.893	333,032	40.334	16.057	0.000	10.278
03/11/2025 17:00	14.855	329,401	40.039	16.156	0.000	9.436
03/11/2025 18:00	14.817	324,836	39.518	16.782	0.000	9.265
03/11/2025 19:00	14.802	326,935	39.881	17.122	0.000	10.327
03/11/2025 20:00	14.816	321,436	38.793	16.335	0.000	8.955
03/11/2025 21:00	14.818	329,264	39.822	15.473	0.000	9.672

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/11/2025 22:00	14.764	312,105	38.428	15.687	0.000	14.058
03/11/2025 23:00	14.767	307,973	37.377	13.924	0.000	16.071
04/11/2025 00:00	14.711	281,780	33.565	13.132	0.000	13.097
04/11/2025 01:00	14.748	302,272	36.565	14.505	0.000	11.944
04/11/2025 02:00	14.763	300,116	36.374	13.125	0.000	11.217
04/11/2025 03:00	14.785	301,002	36.390	14.422	0.000	11.192
04/11/2025 04:00	14.741	291,530	34.834	13.871	0.006	10.530
04/11/2025 05:00	14.802	299,800	36.280	13.277	0.011	9.732
04/11/2025 06:00	14.714	284,643	34.259	12.950	0.000	10.244
04/11/2025 07:00	14.751	295,003	35.654	13.619	0.007	10.868
04/11/2025 08:00	14.709	280,571	33.643	12.554	0.006	10.315
04/11/2025 09:00	14.826	303,969	36.742	14.580	0.005	9.353
04/11/2025 10:00	14.831	292,137	34.701	13.486	0.003	9.094
04/11/2025 11:00	14.840	282,153	33.723	14.342	0.002	8.545
04/11/2025 12:00	14.837	274,986	32.437	14.141	0.001	8.622
04/11/2025 13:00	14.864	286,695	34.041	15.716	0.000	8.058
04/11/2025 14:00	15.002	350,561	42.694	17.535	0.000	8.536
04/11/2025 15:00	14.964	340,505	41.030	17.554	0.000	8.858
04/11/2025 16:00	15.011	356,463	43.252	17.973	0.000	8.757
04/11/2025 17:00	14.948	355,371	42.836	17.217	0.000	8.853
04/11/2025 18:00	14.943	346,272	41.897	16.301	0.000	8.852
04/11/2025 19:00	14.870	337,820	41.118	16.513	0.000	9.220
04/11/2025 20:00	14.910	332,848	40.566	15.865	0.001	8.977
04/11/2025 21:00	14.913	339,491	41.389	17.665	0.001	8.143
04/11/2025 22:00	14.869	343,933	41.612	16.032	0.002	9.651
04/11/2025 23:00	14.794	305,241	37.494	13.688	0.001	10.111
05/11/2025 00:00	14.763	291,942	35.463	13.709	0.000	10.263
05/11/2025 01:00	14.809	301,393	36.770	14.785	0.000	10.223
05/11/2025 02:00	14.793	303,610	36.926	15.818	0.001	10.156
05/11/2025 03:00	14.796	310,099	36.786	15.477	0.009	10.073
05/11/2025 04:00	14.800	304,329	37.150	14.618	0.000	10.173
05/11/2025 05:00	14.772	300,936	36.633	12.897	0.000	10.434
05/11/2025 06:00	14.785	300,916	36.607	14.742	0.000	10.935
05/11/2025 07:00	14.778	290,792	35.250	14.018	0.000	10.591
05/11/2025 08:00	14.738	280,771	33.663	11.615	0.000	9.433
05/11/2025 09:00	14.829	299,350	35.844	12.947	0.000	8.819
05/11/2025 10:00	14.860	289,208	34.415	14.279	0.000	8.452
05/11/2025 11:00	14.809	282,153	32.866	14.805	0.000	8.579
05/11/2025 12:00	14.844	288,306	33.926	13.361	0.000	7.993
05/11/2025 13:00	14.811	283,028	33.289	13.633	0.000	8.426
05/11/2025 14:00	14.923	337,244	40.700	16.760	0.001	8.259
05/11/2025 15:00	14.926	327,387	39.698	16.336	0.002	8.652
05/11/2025 16:00	15.009	331,520	39.765	17.453	0.003	8.854
05/11/2025 17:00	15.002	330,164	39.778	17.357	0.003	8.917
05/11/2025 18:00	14.964	344,228	41.510	17.374	0.003	9.171
05/11/2025 19:00	14.972	331,765	40.125	16.657	0.003	9.568
05/11/2025 20:00	14.936	321,352	39.013	15.548	0.003	9.575
05/11/2025 21:00	14.956	331,530	40.406	16.466	0.003	9.839
05/11/2025 22:00	14.938	334169.563	41.012	16.709	0.003	9.763
05/11/2025 23:00	14.865	309672.125	37.888	14.030	0.002	9.845
06/11/2025 00:00	14.856	305472.875	36.843	13.555	0.002	9.784
06/11/2025 01:00	14.893	307049.969	37.262	13.844	0.002	9.968
06/11/2025 02:00	14.845	301691.188	36.653	14.557	0.001	10.373
06/11/2025 03:00	14.849	306411.906	36.324	14.892	0.001	10.499
06/11/2025 04:00	14.854	307173.313	37.053	14.343	0.008	10.945
06/11/2025 05:00	14.867	307001.188	37.302	15.238	0.000	10.904
06/11/2025 06:00	14.856	307372.375	37.208	14.573	0.003	10.439
06/11/2025 07:00	14.859	303184.656	36.220	15.043	0.000	10.456
06/11/2025 08:00	14.814	274990.500	33.019	12.478	0.001	9.970
06/11/2025 09:00	14.856	285960.375	34.017	13.428	0.001	8.932
06/11/2025 10:00	14.894	292866.688	34.967	13.990	0.001	8.678
06/11/2025 11:00	14.885	282771.438	33.528	12.874	0.001	8.023
06/11/2025 12:00	14.118	277896.906	32.299	18.743	0.001	0.296
06/11/2025 13:00	14.087	279747.188	32.890	19.941	0.002	0.222
06/11/2025 14:00	14.175	333,206	39.892	22.637	0.002	0.547
06/11/2025 15:00	14.229	338,994	40.879	22.867	0.002	0.538
06/11/2025 16:00	14.245	358,163	42.857	28.076	0.002	1.218
06/11/2025 17:00	14.193	345,309	41.810	22.848	0.000	0.693
06/11/2025 18:00	14.153	340,266	40.974	25.936	0.001	0.490
06/11/2025 19:00	14.134	329,223	40.029	21.696	0.001	0.578

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/11/2025 20:00	14.077	324,825	39.848	18.394	0.006	0.704
06/11/2025 21:00	14.158	346,759	41.867	27.955	0.504	1.221
06/11/2025 22:00	14.142	345,837	42.107	18.459	0.004	1.276
06/11/2025 23:00	14.042	313,823	37.542	27.984	1.351	1.340
07/11/2025 00:00	14.018	292,851	35.238	13.351	0.009	1.511
07/11/2025 01:00	14.009	305,107	36.589	19.277	0.000	1.562
07/11/2025 02:00	14.046	307,711	37.260	24.108	0.000	1.384
07/11/2025 03:00	14.038	321,424	38.906	27.984	1.489	1.744
07/11/2025 04:00	14.017	301,780	36.853	20.468	0.012	1.664
07/11/2025 05:00	14.008	303,069	36.816	16.984	0.017	1.345
07/11/2025 06:00	14.020	311,154	37.639	13.475	0.014	2.168
07/11/2025 07:00	14.037	310,466	37.266	18.154	0.005	1.697
07/11/2025 08:00	13.991	291,840	35.079	23.899	0.268	1.426
07/11/2025 09:00	14.023	307,045	37.240	17.843	0.007	1.535
07/11/2025 10:00	14.029	300,055	36.072	18.820	0.007	1.414
07/11/2025 11:00	14.067	305,106	36.862	21.619	0.006	1.256
07/11/2025 12:00	14.050	289,378	34.306	19.309	0.000	0.994
07/11/2025 13:00	14.152	270,448	30.951	23.141	0.001	0.818
07/11/2025 14:00	14.150	333,846	40.073	21.530	0.002	0.772
07/11/2025 15:00	14.110	313,135	37.558	20.795	0.004	0.771
07/11/2025 16:00	14.189	340,050	41.043	18.233	0.006	0.779
07/11/2025 17:00	14.136	326,666	39.824	23.388	0.000	0.916
07/11/2025 18:00	14.125	329,626	40.044	15.666	0.000	1.074
07/11/2025 19:00	14.138	330,637	39.927	15.321	0.007	1.222
07/11/2025 20:00	14.139	327,372	39.805	17.371	0.008	1.341
07/11/2025 21:00	14.095	325,482	39.681	28.605	0.769	0.803
07/11/2025 22:00	14.103	345,587	41.754	14.181	0.003	0.889
07/11/2025 23:00	14.088	325,503	39.136	26.094	0.187	0.763
08/11/2025 00:00	14.009	305,255	36.760	15.868	0.004	0.646
08/11/2025 01:00	14.042	321,034	39.126	19.406	0.001	0.781
08/11/2025 02:00	14.053	315,321	37.921	26.686	1.348	0.915
08/11/2025 03:00	14.036	302,977	36.281	15.536	0.006	0.955
08/11/2025 04:00	14.039	307,166	36.988	17.707	0.006	1.140
08/11/2025 05:00	14.018	298,925	36.482	20.855	0.000	1.203
08/11/2025 06:00	14.016	300,883	36.182	27.654	1.487	1.467
08/11/2025 07:00	14.037	298,933	36.414	24.127	0.002	2.852
08/11/2025 08:00	14.020	282,206	33.700	16.727	0.004	1.324
08/11/2025 09:00	14.066	315,324	38.171	25.919	0.560	0.886
08/11/2025 10:00	14.028	296,965	35.284	16.133	0.005	0.728
08/11/2025 11:00	14.081	292,331	34.269	16.367	0.008	0.465
08/11/2025 12:00	14.081	290,790	34.434	20.056	0.004	0.454
08/11/2025 13:00	14.069	287,680	34.147	14.932	0.001	0.490
08/11/2025 14:00	14.194	330,541	39.239	18.811	0.001	0.741
08/11/2025 15:00	14.220	336,084	40.429	27.963	0.000	0.924
08/11/2025 16:00	14.230	350,113	41.711	22.067	0.000	1.138
08/11/2025 17:00	14.191	345,109	41.230	24.936	0.005	1.117
08/11/2025 18:00	14.165	334,355	40.718	18.474	0.002	1.850
08/11/2025 19:00	14.137	338,088	41.166	24.638	0.002	1.904
08/11/2025 20:00	14.118	327,544	39.657	21.467	0.009	1.584
08/11/2025 21:00	14.096	344,016	41.791	25.177	0.007	0.973
08/11/2025 22:00	14.109	343,867	41.996	15.291	0.006	0.828
08/11/2025 23:00	14.001	304,951	36.844	18.907	0.003	0.871
09/11/2025 00:00	14.000	302,515	36.322	25.369	0.279	0.691
09/11/2025 01:00	14.036	305,661	37.162	24.550	0.126	1.019
09/11/2025 02:00	14.051	311,857	38.152	18.928	0.002	0.856
09/11/2025 03:00	14.014	304,264	36.268	17.174	0.006	0.591
09/11/2025 04:00	14.014	302,969	36.333	16.032	0.014	0.815
09/11/2025 05:00	13.996	294,288	35.579	13.422	0.010	0.965
09/11/2025 06:00	13.995	296,740	35.605	11.467	0.006	1.395
09/11/2025 07:00	13.985	286,905	34.469	16.704	0.010	2.926
09/11/2025 08:00	14.086	265,902	30.640	30.158	0.000	1.510
09/11/2025 09:00	14.073	276,136	31.795	21.137	0.003	0.647
09/11/2025 10:00	14.120	270,186	30.994	25.708	0.002	0.140
09/11/2025 11:00	14.125	273,485	31.479	17.023	0.001	0.017
09/11/2025 12:00	14.135	267,580	30.557	17.767	0.001	0.000
09/11/2025 13:00	14.089	273,020	31.963	21.189	0.000	0.000
09/11/2025 14:00	14.066	290,397	33.748	17.287	0.000	0.236
09/11/2025 15:00	13.983	284,445	33.722	21.947	0.014	2.105
09/11/2025 16:00	14.001	272,591	32.438	22.297	0.005	1.788
09/11/2025 17:00	14.026	284,622	32.988	24.829	0.148	1.078

GNLL2  
HRSG11  
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	Actual Operation Condition			Emission Concentration for Standardization Comparison		
Date & Time	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/11/2025 18:00	14.023	278,490	33.183	18.848	0.003	1.180
09/11/2025 19:00	14.184	369,937	45.119	30.059	0.004	0.929
09/11/2025 20:00	14.162	370,305	45.424	31.440	0.011	1.613
09/11/2025 21:00	14.140	374,366	45.837	18.808	0.010	1.015
09/11/2025 22:00	14.001	283,153	33.411	23.733	0.003	0.337
09/11/2025 23:00	13.988	287,065	34.448	15.948	0.002	0.656
10/11/2025 00:00	13.974	276,454	32.185	15.773	0.011	0.603
10/11/2025 01:00	13.995	283,880	34.750	23.978	0.002	0.971
10/11/2025 02:00	13.995	278,483	33.007	18.688	0.007	0.951
10/11/2025 03:00	13.976	277,127	33.108	10.881	0.013	0.816
10/11/2025 04:00	14.007	278,500	32.873	16.037	0.009	0.863
10/11/2025 05:00	13.963	282,912	33.845	19.508	0.001	0.787
10/11/2025 06:00	14.008	286,865	34.419	27.075	1.551	0.794
10/11/2025 07:00	13.953	278,922	33.776	19.531	0.006	0.749
10/11/2025 08:00	13.959	282,958	33.722	14.520	0.006	0.615
10/11/2025 09:00	14.009	279,673	33.401	16.980	0.009	0.605
10/11/2025 10:00	14.041	278,628	32.762	19.585	0.009	0.339
10/11/2025 11:00	14.070	278,524	32.859	17.524	0.006	0.273
10/11/2025 12:00	14.060	278,495	32.370	18.838	0.004	0.000
10/11/2025 13:00	14.130	266,244	29.896	27.790	0.002	0.697
10/11/2025 14:00	14.139	348,465	42.511	30.675	0.423	3.747
10/11/2025 15:00	14.117	336,372	41.190	22.973	0.002	2.653
10/11/2025 16:00	14.164	335,767	40.428	19.354	0.002	0.833
10/11/2025 17:00	14.164	346,041	41.473	21.084	0.000	0.926
10/11/2025 18:00	14.132	335,746	40.499	20.528	0.013	2.423
10/11/2025 19:00	14.120	335,847	40.889	19.891	0.003	1.153
10/11/2025 20:00	14.113	328,220	40.100	21.665	0.001	1.239
10/11/2025 21:00	14.084	372,699	46.133	20.849	0.000	1.762
10/11/2025 22:00	13.969	265,730	29.075	20.997	0.005	1.332
10/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/11/2025 14:00	14.160	339,915	40.838	19.962	0.005	0.845
11/11/2025 15:00	14.233	343,938	40.993	21.009	0.003	1.404
11/11/2025 16:00	14.200	344,001	41.251	20.524	0.006	1.152
11/11/2025 17:00	14.172	332,463	39.957	27.204	0.011	1.047
11/11/2025 18:00	14.168	339,827	40.842	21.375	0.000	1.641
11/11/2025 19:00	14.135	336,772	40.532	17.428	0.003	1.709
11/11/2025 20:00	14.082	322,496	39.377	22.039	0.001	1.889
11/11/2025 21:00	14.009	286,579	33.924	19.610	0.017	1.961
11/11/2025 22:00	14.113	342,557	41.366	19.073	0.002	1.547
11/11/2025 23:00	14.007	308,757	36.852	18.997	0.002	1.225
12/11/2025 00:00	13.989	293,355	35.216	22.931	0.006	0.634
12/11/2025 01:00	13.986	295,022	35.400	10.869	0.006	0.587
12/11/2025 02:00	14.009	298,343	35.910	19.599	0.001	0.636
12/11/2025 03:00	14.017	295,744	36.013	24.921	0.556	0.841
12/11/2025 04:00	14.023	301,054	36.285	16.590	0.001	0.928
12/11/2025 05:00	14.036	304,970	37.109	11.885	0.010	0.924
12/11/2025 06:00	14.010	300,551	35.885	17.769	0.002	0.726
12/11/2025 07:00	13.958	283,819	34.076	21.132	0.006	0.594
12/11/2025 08:00	13.994	272,731	32.062	15.576	0.005	0.672
12/11/2025 09:00	14.030	276,398	32.628	17.331	0.006	0.260
12/11/2025 10:00	14.079	274,281	31.989	16.115	0.006	0.454
12/11/2025 11:00	14.095	288,593	34.350	18.463	0.006	0.238
12/11/2025 12:00	13.992	282,946	33.808	25.458	0.005	1.385
12/11/2025 13:00	14.140	262,716	30.022	25.995	0.005	1.709
12/11/2025 14:00	14.149	334,031	39.811	24.579	0.004	1.079
12/11/2025 15:00	14.163	329,859	39.976	23.217	0.004	0.590

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HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

	Actual Operation Condition			Emission Concentration for Standardization Comparison		
Date & Time	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/11/2025 16:00	14.191	337,679	40.252	21.262	0.003	0.360
12/11/2025 17:00	14.192	340,605	41.096	25.122	0.002	0.388
12/11/2025 18:00	14.170	338,976	40.000	18.769	0.006	0.165
12/11/2025 19:00	14.140	323,510	39.301	15.731	0.008	0.180
12/11/2025 20:00	14.116	319,409	39.125	23.350	0.011	0.293
12/11/2025 21:00	14.082	325,688	39.411	21.216	0.010	0.315
12/11/2025 22:00	14.161	370,530	46.728	18.185	0.009	0.623
12/11/2025 23:00	14.175	351,414	43.392	21.281	0.002	0.399
13/11/2025 00:00	14.171	351,715	43.439	27.784	0.381	0.764
13/11/2025 01:00	14.167	352,047	43.369	16.976	0.003	0.638
13/11/2025 02:00	14.163	349,843	43.447	20.878	0.000	0.304
13/11/2025 03:00	14.158	350,358	43.426	22.027	0.006	0.702
13/11/2025 04:00	14.158	348,779	43.322	28.469	0.073	0.432
13/11/2025 05:00	14.157	352,107	43.307	29.342	0.884	0.656
13/11/2025 06:00	14.157	350,506	43.298	21.449	0.003	2.855
13/11/2025 07:00	14.157	350,058	43.309	16.774	0.015	1.660
13/11/2025 08:00	14.156	348,073	43.297	24.073	0.003	0.865
13/11/2025 09:00	14.172	351,681	43.363	24.218	0.009	1.334
13/11/2025 10:00	14.199	356,252	43.356	22.948	0.007	0.880
13/11/2025 11:00	14.234	355,643	43.171	24.251	0.004	0.492
13/11/2025 12:00	14.235	356,249	43.274	20.241	0.002	0.778
13/11/2025 13:00	14.121	327,752	40.110	30.304	0.035	1.227
13/11/2025 14:00	14.106	319,366	38.539	24.734	0.004	1.521
13/11/2025 15:00	14.161	326,081	39.343	23.885	0.003	1.366
13/11/2025 16:00	14.129	326,092	40.077	20.504	0.001	0.253
13/11/2025 17:00	14.113	325,420	39.702	24.440	0.000	1.108
13/11/2025 18:00	14.097	331,951	40.238	23.650	0.000	1.554
13/11/2025 19:00	14.072	330,254	40.669	15.817	0.005	1.328
13/11/2025 20:00	14.049	316,722	38.820	19.848	0.010	1.014
13/11/2025 21:00	14.062	323,461	39.397	21.849	0.002	1.111
13/11/2025 22:00	14.078	375,348	46.321	30.173	0.012	1.427
13/11/2025 23:00	14.140	348,086	43.351	27.816	0.098	3.005
14/11/2025 00:00	14.135	348,954	43.378	19.858	0.011	2.471
14/11/2025 01:00	14.131	352,069	43.255	16.128	0.004	4.173
14/11/2025 02:00	14.131	351,052	43.420	20.790	0.003	2.522
14/11/2025 03:00	14.145	350,115	43.295	21.858	0.005	1.248
14/11/2025 04:00	14.172	350,976	43.369	22.201	0.000	2.151
14/11/2025 05:00	14.199	346,364	43.240	24.065	0.014	1.490
14/11/2025 06:00	14.184	348,620	43.193	26.847	0.000	1.804
14/11/2025 07:00	14.196	348,052	43.186	27.379	0.000	1.880
14/11/2025 08:00	14.226	347,984	43.128	27.762	0.020	1.303
14/11/2025 09:00	14.273	351,661	43.091	28.544	0.011	0.264
14/11/2025 10:00	14.282	350,127	43.106	28.429	0.010	0.385
14/11/2025 11:00	14.297	353,222	43.026	26.227	0.009	0.318
14/11/2025 12:00	14.319	353,217	43.078	26.721	0.007	0.311
14/11/2025 13:00	14.276	331,702	39.883	27.772	0.006	0.056
14/11/2025 14:00	14.220	323,747	38.683	22.246	0.005	0.000
14/11/2025 15:00	14.235	329,662	39.505	27.150	0.003	0.000
14/11/2025 16:00	14.246	330,408	39.792	24.315	0.002	0.000
14/11/2025 17:00	14.238	323,470	38.917	23.691	0.008	0.000
14/11/2025 18:00	14.204	329,572	39.725	31.059	0.106	0.000
14/11/2025 19:00	14.188	331,954	40.506	30.729	0.000	0.004
14/11/2025 20:00	14.143	322,189	39.208	24.226	0.001	0.249
14/11/2025 21:00	14.173	324,241	39.665	26.709	0.004	0.014
14/11/2025 22:00	14.185	252,654	26.048	23.885	0.009	0.000
14/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
15/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/11/2025 14:00	14.195	324,954	38.122	30.013	0.003	0.000
15/11/2025 15:00	14.243	314,409	37.256	24.553	0.007	0.000
15/11/2025 16:00	14.271	319,106	37.928	25.005	0.000	0.000
15/11/2025 17:00	14.258	329,590	39.387	32.548	0.028	0.000
15/11/2025 18:00	14.244	329,673	40.064	31.293	0.012	0.000
15/11/2025 19:00	14.203	325,553	39.655	18.960	0.002	0.000
15/11/2025 20:00	14.190	321,532	38.663	23.491	0.004	0.024
15/11/2025 21:00	14.180	330,221	40.267	31.284	0.263	0.045
15/11/2025 22:00	14.120	319,374	39.207	32.095	1.366	0.000
15/11/2025 23:00	14.104	289,073	34.895	31.098	1.608	0.213
16/11/2025 00:00	14.060	272,521	32.088	26.943	0.007	0.265
16/11/2025 01:00	14.051	284,661	34.391	20.752	0.013	0.387
16/11/2025 02:00	14.032	287,088	34.613	16.870	0.014	0.517
16/11/2025 03:00	14.091	290,047	35.070	29.492	1.259	0.533
16/11/2025 04:00	14.027	280,147	33.647	13.327	0.010	0.668
16/11/2025 05:00	14.029	278,599	32.991	29.772	0.653	1.077
16/11/2025 06:00	14.016	280,913	33.757	15.879	0.004	0.893
16/11/2025 07:00	14.080	294,476	35.252	24.055	0.001	0.868
16/11/2025 08:00	14.097	268,315	31.221	33.979	0.012	1.130
16/11/2025 09:00	14.173	261,686	29.358	38.324	0.001	0.922
16/11/2025 10:00	14.139	270,453	31.249	35.033	0.003	0.217
16/11/2025 11:00	14.227	263,766	30.026	38.681	0.003	0.254
16/11/2025 12:00	14.244	260,645	29.048	37.253	0.002	0.284
16/11/2025 13:00	14.227	267,208	29.891	35.743	0.002	0.181
16/11/2025 14:00	14.169	271,524	30.939	25.758	0.001	0.039
16/11/2025 15:00	14.123	281,264	33.133	19.883	0.001	0.000
16/11/2025 16:00	14.168	274,975	32.531	30.224	0.001	0.000
16/11/2025 17:00	14.091	275,836	31.989	25.952	0.000	0.000
16/11/2025 18:00	14.234	263,370	29.305	33.433	0.002	0.000
16/11/2025 19:00	14.178	338,723	40.918	16.652	0.009	0.332
16/11/2025 20:00	14.096	315,538	38.706	31.841	0.839	0.491
16/11/2025 21:00	14.125	319,484	39.145	21.205	0.005	0.696
16/11/2025 22:00	14.179	346,490	43.480	21.104	0.002	1.861
16/11/2025 23:00	14.180	346037.938	43.172	27.950	0.004	1.975
17/11/2025 00:00	14.179	347122.938	43.244	30.977	0.333	2.074
17/11/2025 01:00	14.187	347214.938	43.327	24.926	0.015	2.404
17/11/2025 02:00	14.204	346106.313	43.173	22.691	0.005	1.786
17/11/2025 03:00	14.209	349706.844	43.250	22.121	0.003	1.448
17/11/2025 04:00	14.215	348267.719	43.247	17.808	0.002	1.546
17/11/2025 05:00	14.220	349204.938	43.242	23.840	0.005	1.365
17/11/2025 06:00	14.207	348476.313	43.210	32.939	1.640	1.661
17/11/2025 07:00	14.165	348002.406	43.108	23.936	0.002	1.695
17/11/2025 08:00	14.202	349316.438	43.246	17.627	0.006	1.045
17/11/2025 09:00	14.237	352150.906	43.108	24.512	0.002	0.781
17/11/2025 10:00	14.244	354,138	43.150	23.549	0.017	0.329
17/11/2025 11:00	14.227	352,060	43.275	21.005	0.003	0.270
17/11/2025 12:00	14.254	352,321	43.171	23.117	0.007	0.108
17/11/2025 13:00	14.182	335,732	40.803	28.831	0.002	0.183
17/11/2025 14:00	14.162	314,434	38.210	26.942	0.003	0.219
17/11/2025 15:00	14.197	328,363	39.646	21.861	0.004	0.000
17/11/2025 16:00	14.120	328,854	39.882	25.372	0.002	0.652
17/11/2025 17:00	14.136	328,831	39.423	18.731	0.002	0.774
17/11/2025 18:00	14.089	321,495	39.120	24.665	0.003	0.556
17/11/2025 19:00	14.107	325,336	39.508	20.039	0.008	0.666
17/11/2025 20:00	14.115	315,072	38.048	23.671	0.003	0.986
17/11/2025 21:00	14.105	326,323	39.683	20.862	0.004	1.281
17/11/2025 22:00	14.081	326,216	39.673	23.365	0.016	1.542
17/11/2025 23:00	14.032	300,980	35.926	18.235	0.000	1.565
18/11/2025 00:00	14.038	288,588	34.576	26.425	0.251	1.462
18/11/2025 01:00	14.075	303,016	36.775	14.319	0.007	1.781
18/11/2025 02:00	14.041	301,377	36.458	20.196	0.005	1.963
18/11/2025 03:00	14.019	295,652	35.396	22.160	0.000	1.524
18/11/2025 04:00	14.046	299,778	36.019	21.461	0.000	1.873
18/11/2025 05:00	14.049	299,010	36.068	22.394	0.001	2.693
18/11/2025 06:00	14.061	301,435	36.735	24.429	0.002	2.922
18/11/2025 07:00	14.075	296,962	35.237	27.645	0.998	2.251
18/11/2025 08:00	14.037	286,706	34.402	18.160	0.001	1.306
18/11/2025 09:00	14.026	281,591	33.321	25.217	0.016	1.059
18/11/2025 10:00	14.116	300,852	35.486	17.762	0.010	0.456
18/11/2025 11:00	14.103	302,374	36.440	20.971	0.004	0.320

Site Name:  
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GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/11/2025 12:00	14.027	283,416	34.262	19.584	0.004	0.520
18/11/2025 13:00	14.101	273,030	31.867	27.472	0.001	0.815
18/11/2025 14:00	14.146	331,732	39.843	21.148	0.001	0.843
18/11/2025 15:00	14.180	330,277	39.912	20.656	0.000	0.651
18/11/2025 16:00	14.194	339,877	41.210	25.825	0.001	0.811
18/11/2025 17:00	14.150	326,850	39.425	29.994	0.137	0.671
18/11/2025 18:00	14.142	320,843	38.854	29.085	0.001	0.822
18/11/2025 19:00	14.116	335,896	40.443	23.180	0.000	1.552
18/11/2025 20:00	14.105	332,068	40.247	26.211	0.003	1.160
18/11/2025 21:00	14.131	333,643	40.740	28.695	0.193	1.171
18/11/2025 22:00	14.075	327,589	39.991	18.602	0.010	1.161
18/11/2025 23:00	14.078	309,392	37.249	19.876	0.000	1.006
19/11/2025 00:00	14.076	303,759	36.642	27.356	0.167	0.880
19/11/2025 01:00	14.090	294,066	35.805	22.355	0.009	0.839
19/11/2025 02:00	14.055	302,556	36.529	19.849	0.001	0.927
19/11/2025 03:00	14.078	300,961	36.197	20.123	0.000	2.508
19/11/2025 04:00	14.023	286,432	34.378	20.115	0.011	1.863
19/11/2025 05:00	14.033	292,391	35.168	19.746	0.000	2.090
19/11/2025 06:00	14.045	292,766	35.141	18.111	0.003	1.395
19/11/2025 07:00	14.044	287,734	34.605	28.364	0.082	1.032
19/11/2025 08:00	14.065	276,012	32.152	26.441	0.010	1.060
19/11/2025 09:00	14.067	282,568	33.626	25.192	0.001	0.614
19/11/2025 10:00	14.071	280,568	32.998	27.277	0.000	0.435
19/11/2025 11:00	14.103	282,806	33.531	18.786	0.008	0.237
19/11/2025 12:00	14.156	270,384	31.646	26.160	0.006	0.098
19/11/2025 13:00	14.119	283,789	32.822	21.569	0.004	0.033
19/11/2025 14:00	14.123	274,419	31.949	26.308	0.003	0.206
19/11/2025 15:00	14.254	326,559	39.453	27.686	0.001	0.123
19/11/2025 16:00	14.241	374,366	45.730	23.941	0.001	0.352
19/11/2025 17:00	14.225	372,943	46.080	25.338	0.002	0.209
19/11/2025 18:00	14.208	376,315	46.343	32.761	0.010	0.763
19/11/2025 19:00	14.213	376,859	46.817	26.409	0.002	0.656
19/11/2025 20:00	14.230	375,414	46.672	29.638	0.007	0.480
19/11/2025 21:00	14.117	288,682	34.385	26.725	0.022	0.248
19/11/2025 22:00	14.160	323,935	39.721	22.317	0.005	0.281
19/11/2025 23:00	14.127	300934.938	36.247	18.411	0.018	0.410
20/11/2025 00:00	14.163	298379.281	36.094	21.023	0.002	0.311
20/11/2025 01:00	14.170	302536.813	36.163	29.454	0.349	0.350
20/11/2025 02:00	14.170	312769.344	38.193	19.757	0.010	0.351
20/11/2025 03:00	14.112	302319.594	36.056	21.886	0.015	0.387
20/11/2025 04:00	14.129	290895.438	35.190	20.532	0.005	0.351
20/11/2025 05:00	14.122	296830.563	35.728	20.821	0.005	0.373
20/11/2025 06:00	14.145	301734.031	36.679	20.739	0.008	0.524
20/11/2025 07:00	14.082	290707.469	35.084	27.848	0.000	0.494
20/11/2025 08:00	14.112	274304.813	32.163	19.359	0.009	0.309
20/11/2025 09:00	14.112	288864.563	35.179	25.901	0.019	0.502
20/11/2025 10:00	14.154	303,578	36.079	21.189	0.005	0.421
20/11/2025 11:00	14.085	284,967	34.321	15.255	0.002	0.390
20/11/2025 12:00	14.118	270,427	31.913	21.973	0.004	0.494
20/11/2025 13:00	14.227	261,933	28.641	44.280	0.001	0.308
20/11/2025 14:00	14.082	321,209	39.028	25.515	0.016	0.305
20/11/2025 15:00	14.197	329,578	40.295	24.534	0.005	0.277
20/11/2025 16:00	14.242	337,792	41.209	24.206	0.013	0.000
20/11/2025 17:00	14.173	320,854	39.155	31.036	0.688	0.265
20/11/2025 18:00	14.181	328,307	39.890	31.616	0.810	0.520
20/11/2025 19:00	14.172	322,024	38.890	22.785	0.004	0.587
20/11/2025 20:00	14.156	321,452	39.497	16.219	0.000	0.465
20/11/2025 21:00	14.168	327,103	39.970	29.594	0.907	0.918
20/11/2025 22:00	14.190	339,867	41.284	22.034	0.005	0.793
20/11/2025 23:00	14.140	299,461	36.566	16.740	0.005	0.291
21/11/2025 00:00	14.076	284,275	33.985	28.415	0.820	0.671
21/11/2025 01:00	14.106	296,830	35.922	19.174	0.001	0.362
21/11/2025 02:00	14.107	294,875	35.411	29.428	1.571	0.636
21/11/2025 03:00	14.103	296,205	35.711	20.254	0.003	0.385
21/11/2025 04:00	14.098	291,839	35.410	28.439	1.284	0.386
21/11/2025 05:00	14.128	309,355	36.764	19.701	0.004	0.706
21/11/2025 06:00	14.120	296,834	35.601	22.544	0.016	0.499
21/11/2025 07:00	14.075	289,167	35.085	20.728	0.003	0.575
21/11/2025 08:00	14.089	282,887	33.712	20.034	0.005	0.303
21/11/2025 09:00	14.080	286,668	34.619	18.142	0.001	0.301

Site Name:  
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Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/11/2025 10:00	14.108	288,741	34.276	21.946	0.000	0.357
21/11/2025 11:00	14.115	274,819	31.965	20.105	0.006	0.075
21/11/2025 12:00	14.197	266,181	30.668	40.968	0.013	0.450
21/11/2025 13:00	14.304	250,769	26.936	50.800	0.000	0.249
21/11/2025 14:00	14.136	321,421	38.604	17.257	0.010	0.338
21/11/2025 15:00	14.163	315,293	38.230	22.525	0.012	0.360
21/11/2025 16:00	14.188	319,300	38.605	23.265	0.001	0.200
21/11/2025 17:00	14.198	315,448	38.170	30.412	0.641	0.026
21/11/2025 18:00	14.175	314,998	38.641	31.722	1.056	0.307
21/11/2025 19:00	14.138	315,306	38.309	21.987	0.005	0.231
21/11/2025 20:00	14.168	311,158	37.683	19.941	0.003	0.281
21/11/2025 21:00	14.182	315,521	38.740	20.476	0.010	0.140
21/11/2025 22:00	14.124	316,812	38.560	28.862	0.000	0.347
21/11/2025 23:00	14.125	299473.844	35.883	19.399	0.001	0.320
22/11/2025 00:00	14.088	270526.500	32.019	32.138	0.940	0.647
22/11/2025 01:00	14.138	290176.125	35.061	19.139	0.003	0.493
22/11/2025 02:00	14.143	300024.531	36.067	27.626	1.009	0.309
22/11/2025 03:00	14.073	279375.094	33.495	13.559	0.002	0.432
22/11/2025 04:00	14.081	282529.125	34.139	19.279	0.000	0.349
22/11/2025 05:00	14.153	290525.125	34.820	29.278	1.767	0.108
22/11/2025 06:00	14.120	285112.094	34.058	20.781	0.001	0.484
22/11/2025 07:00	14.080	280968.563	33.746	15.641	0.003	0.582
22/11/2025 08:00	14.221	261152.203	29.960	34.075	0.011	0.707
22/11/2025 09:00	14.223	262144.844	30.106	37.011	0.000	0.305
22/11/2025 10:00	14.253	261,318	29.447	41.054	0.006	0.056
22/11/2025 11:00	14.248	267,589	31.072	42.704	0.004	0.002
22/11/2025 12:00	14.261	264,538	29.815	37.162	0.003	0.301
22/11/2025 13:00	14.326	254,219	27.007	44.232	0.001	0.244
22/11/2025 14:00	14.185	313,234	37.719	22.691	0.000	0.000
22/11/2025 15:00	14.213	307,057	36.502	22.274	0.000	0.000
22/11/2025 16:00	14.223	313,867	37.470	27.678	0.000	0.000
22/11/2025 17:00	14.229	326,618	38.988	22.365	0.000	0.000
22/11/2025 18:00	14.209	322,586	38.544	22.190	0.000	0.000
22/11/2025 19:00	14.179	309,823	38.138	20.771	0.009	0.000
22/11/2025 20:00	14.169	318,317	38.217	20.712	0.002	0.348
22/11/2025 21:00	14.180	327,074	39.630	20.836	0.002	0.337
22/11/2025 22:00	14.100	311,389	38.249	20.393	0.005	0.388
22/11/2025 23:00	14.085	290,526	34.565	13.362	0.005	0.445
23/11/2025 00:00	14.042	275,718	32.567	21.973	0.010	0.662
23/11/2025 01:00	14.126	293,209	35.447	17.948	0.003	0.375
23/11/2025 02:00	14.060	280,149	33.871	17.410	0.009	0.292
23/11/2025 03:00	14.126	290,658	35.084	18.281	0.005	0.653
23/11/2025 04:00	14.076	274,305	32.349	26.694	0.003	0.620
23/11/2025 05:00	14.094	271,122	31.920	30.131	0.007	0.667
23/11/2025 06:00	14.121	269,188	31.623	34.444	0.000	0.693
23/11/2025 07:00	14.130	272,317	31.824	32.259	0.006	0.752
23/11/2025 08:00	14.287	255,652	27.767	38.201	0.006	0.838
23/11/2025 09:00	14.296	255,837	28.319	50.589	0.007	0.445
23/11/2025 10:00	14.346	255,775	28.207	44.483	0.006	0.280
23/11/2025 11:00	14.317	253,883	27.788	44.276	0.005	0.052
23/11/2025 12:00	14.356	252,877	27.401	45.301	0.005	0.174
23/11/2025 13:00	14.379	253,631	26.993	43.038	0.004	0.137
23/11/2025 14:00	14.270	264,242	29.716	33.516	0.003	0.000
23/11/2025 15:00	14.285	259,581	29.108	37.658	0.003	0.000
23/11/2025 16:00	14.188	269,851	30.836	21.328	0.002	0.000
23/11/2025 17:00	14.250	263,632	29.601	40.543	0.002	0.000
23/11/2025 18:00	14.428	242,367	23.350	43.446	0.002	0.000
23/11/2025 19:00	14.198	319,953	38.309	21.330	0.002	0.000
23/11/2025 20:00	14.104	307,047	36.954	24.302	0.002	0.022
23/11/2025 21:00	14.093	305,102	36.765	18.093	0.005	0.216
23/11/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 14:00	14.121	309,177	37.084	22.487	0.000	0.000
24/11/2025 15:00	14.187	314,170	37.376	22.273	0.000	0.000
24/11/2025 16:00	14.196	312,638	37.332	25.778	0.000	0.061
24/11/2025 17:00	14.235	316,109	37.794	25.913	0.000	0.000
24/11/2025 18:00	14.200	314,195	37.576	22.381	0.000	0.024
24/11/2025 19:00	14.171	309,205	37.327	28.264	0.000	0.082
24/11/2025 20:00	14.136	310,415	37.419	20.452	0.007	0.154
24/11/2025 21:00	14.126	315,672	37.740	23.882	0.002	0.244
24/11/2025 22:00	14.214	376,701	46.297	22.000	0.009	0.588
24/11/2025 23:00	14.245	350,084	42.940	22.657	0.000	0.107
25/11/2025 00:00	14.254	350,245	43.192	23.979	0.000	0.016
25/11/2025 01:00	14.255	352,583	43.211	30.316	0.540	0.174
25/11/2025 02:00	14.256	351,439	43.243	18.348	0.005	0.125
25/11/2025 03:00	14.256	351,004	43.136	23.239	0.003	0.242
25/11/2025 04:00	14.259	348,659	43.262	23.139	0.005	0.386
25/11/2025 05:00	14.267	348,420	43.107	27.613	0.000	0.268
25/11/2025 06:00	14.274	348,499	43.251	22.818	0.001	0.255
25/11/2025 07:00	14.281	350,053	43.083	23.575	0.001	0.358
25/11/2025 08:00	14.288	347,913	43.060	19.744	0.002	0.003
25/11/2025 09:00	14.295	348,772	43.033	28.012	0.000	0.116
25/11/2025 10:00	14.310	352,083	42.983	26.118	0.000	0.000
25/11/2025 11:00	14.333	350,752	43.018	30.652	0.000	0.000
25/11/2025 12:00	14.356	354,198	43.017	25.903	0.000	0.004
25/11/2025 13:00	14.283	327,626	39.680	25.000	0.000	0.000
25/11/2025 14:00	14.260	320,808	38.609	26.743	0.000	0.000
25/11/2025 15:00	14.257	319,026	38.485	24.829	0.000	0.000
25/11/2025 16:00	14.295	328,019	39.342	27.303	0.000	0.000
25/11/2025 17:00	14.282	328,665	39.392	20.957	0.001	0.000
25/11/2025 18:00	14.242	329,629	39.738	21.417	0.003	0.000
25/11/2025 19:00	14.275	339,878	40.905	25.747	0.002	0.000
25/11/2025 20:00	14.229	317,949	38.495	22.004	0.001	0.000
25/11/2025 21:00	14.219	337,785	40.795	28.484	0.002	0.057
25/11/2025 22:00	14.256	378,072	47	35.749	0.456	0.349
25/11/2025 23:00	14.265	349,811	43	27.455	0.007	0.086
26/11/2025 00:00	14.273	349,594	43	22.436	0.003	0.068
26/11/2025 01:00	14.280	350,088	43	19.542	0.011	0.169
26/11/2025 02:00	14.293	350,041	43	31.427	0.836	0.065
26/11/2025 03:00	14.282	346,010	43	24.454	0.003	0.098
26/11/2025 04:00	14.272	350,736	43	22.916	0.000	0.103
26/11/2025 05:00	14.265	346,477	43	22.991	0.019	0.144
26/11/2025 06:00	14.262	345,573	43	23.837	0.002	0.208
26/11/2025 07:00	14.260	349,685	43	33.643	1.915	0.297
26/11/2025 08:00	14.261	346,037	43	32.692	1.054	0.408
26/11/2025 09:00	14.273	348,324	43	22.219	0.001	0.115
26/11/2025 10:00	14.285	350,160	43	21.452	0.006	0.000
26/11/2025 11:00	14.297	348,061	43	26.986	0.005	0.000
26/11/2025 12:00	14.315	350,195	43	25.499	0.005	0.073
26/11/2025 13:00	14.280	333,102	40	21.975	0.004	0.000
26/11/2025 14:00	14.210	316,839	38	24.528	0.004	0.000
26/11/2025 15:00	14.210	309,590	37	22.748	0.003	0.000
26/11/2025 16:00	14.271	373,740	45	27.624	0.003	0.064
26/11/2025 17:00	14.288	337,327	41	30.557	0.003	0.000
26/11/2025 18:00	14.215	329,594	40	26.400	0.009	0.000
26/11/2025 19:00	14.189	330,033	39.985	19.542	0.003	0.000
26/11/2025 20:00	14.178	319,597	38.954	20.297	0.003	0.000
26/11/2025 21:00	14.167	317,368	38.816	21.681	0.001	0.051
26/11/2025 22:00	14.338	244,539	24.214	33.348	0.004	0.096
26/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/11/2025 14:00	14.200	305,867	36.427	27.478	0.005	0.000
27/11/2025 15:00	14.267	307,718	36.666	24.893	0.003	0.000
27/11/2025 16:00	14.262	317,694	38.124	23.029	0.002	0.000
27/11/2025 17:00	14.274	321,433	38.529	24.461	0.000	0.000
27/11/2025 18:00	14.253	324,887	39.115	21.011	0.003	0.000
27/11/2025 19:00	14.252	325,663	39.199	22.053	0.003	0.000
27/11/2025 20:00	14.230	309,846	37.728	17.550	0.000	0.000
27/11/2025 21:00	14.254	325,588	40.022	22.605	0.005	0.000
27/11/2025 22:00	14.361	378,735	47.485	26.592	0.003	0.229
27/11/2025 23:00	14.284	346,829	43.097	22.031	0.002	0.000
28/11/2025 00:00	14.284	348,149	43.002	24.683	0.000	0.000
28/11/2025 01:00	14.285	348,041	43.117	29.459	0.001	0.000
28/11/2025 02:00	14.286	345,881	43.018	35.595	1.086	0.000
28/11/2025 03:00	14.287	345,843	43.097	34.806	0.306	0.000
28/11/2025 04:00	14.288	345,413	42.981	29.277	0.001	0.000
28/11/2025 05:00	14.305	346,123	43.070	25.472	0.001	0.000
28/11/2025 06:00	14.306	345,910	43.031	23.079	0.015	0.000
28/11/2025 07:00	14.308	345,236	43.091	25.970	0.000	0.087
28/11/2025 08:00	14.309	343,538	43.028	34.078	0.796	0.000
28/11/2025 09:00	14.320	347,266	42.908	22.966	0.006	0.000
28/11/2025 10:00	14.336	345,712	42.882	33.859	0.005	0.000
28/11/2025 11:00	14.352	348,035	42.965	26.742	0.001	0.000
28/11/2025 12:00	14.368	350,302	42.974	23.751	0.001	0.000
28/11/2025 13:00	14.227	300,352	36.249	28.292	0.001	0.000
28/11/2025 14:00	14.302	321,426	38.708	30.679	0.000	0.000
28/11/2025 15:00	14.240	321,018	38.380	28.339	0.000	0.000
28/11/2025 16:00	14.263	327,226	39.102	24.607	0.000	0.000
28/11/2025 17:00	14.292	319,850	38.593	24.872	0.000	0.000
28/11/2025 18:00	14.241	306,848	37.014	30.800	0.001	0.000
28/11/2025 19:00	14.164	299,678	36.165	23.437	0.002	0.000
28/11/2025 20:00	14.176	299,335	36.192	19.873	0.005	0.000
28/11/2025 21:00	14.179	304,434	36.893	21.658	0.002	0.000
28/11/2025 22:00	14.348	372,824	46.353	27.472	0.000	0.000
28/11/2025 23:00	14.296	349713.500	43.199	36.266	2.181	0.000
29/11/2025 00:00	14.306	348700.688	43.260	35.739	2.181	0.000
29/11/2025 01:00	14.281	347809.344	43.255	34.868	0.582	0.000
29/11/2025 02:00	14.253	347186.031	43.112	25.383	0.000	0.000
29/11/2025 03:00	14.268	347483.125	42.976	23.278	0.000	0.000
29/11/2025 04:00	14.282	347021.031	43.047	20.142	0.000	0.000
29/11/2025 05:00	14.296	343848.563	43.034	30.926	0.015	0.047
29/11/2025 06:00	14.299	345211.938	43.023	22.978	0.004	0.000
29/11/2025 07:00	14.302	343346.000	42.974	27.329	0.018	0.000
29/11/2025 08:00	14.319	345989.156	43.004	22.919	0.002	0.237
29/11/2025 09:00	14.338	348001.625	42.936	29.842	0.011	0.000
29/11/2025 10:00	14.376	348413.656	42.841	30.562	0.000	0.000
29/11/2025 11:00	14.397	351,032	42.923	24.094	0.000	0.000
29/11/2025 12:00	14.377	350,159	42.874	27.271	0.000	0.002
29/11/2025 13:00	14.226	316,565	38.492	26.616	0.001	0.000
29/11/2025 14:00	14.278	300,999	35.754	22.912	0.001	0.000
29/11/2025 15:00	14.266	308,409	35.616	25.824	0.001	0.000
29/11/2025 16:00	14.280	313,881	37.528	18.267	0.002	0.000
29/11/2025 17:00	14.284	305,138	36.407	30.389	0.002	0.000
29/11/2025 18:00	14.207	305,061	36.828	32.259	0.165	0.000
29/11/2025 19:00	14.226	311,220	37.726	16.879	0.004	0.000
29/11/2025 20:00	14.173	306,357	36.715	15.222	0.001	0.000
29/11/2025 21:00	14.180	308,945	37.091	19.884	0.002	0.000
29/11/2025 22:00	14.058	262,873	28.607	23.371	0.000	0.000
29/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Nov/25 00:00 - 30/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/11/2025 19:00	14.196	303,984	36.478	28.373	0.157	0.000
30/11/2025 20:00	14.169	299,790	36.307	15.593	0.004	0.000
30/11/2025 21:00	14.152	308,814	37.120	14.187	0.003	0.000
30/11/2025 22:00	14.141	266,094	29.502	29.326	0.001	0.000
30/11/2025 23:00	14.178	267,807	30.949	35.395	0.001	0.126
01/12/2025 00:00						
01/12/2025 01:00						
01/12/2025 02:00						
01/12/2025 03:00						
01/12/2025 04:00						
01/12/2025 05:00						
01/12/2025 06:00						
01/12/2025 07:00						
01/12/2025 08:00						
01/12/2025 09:00						
01/12/2025 10:00						
01/12/2025 11:00						
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01/12/2025 15:00						
01/12/2025 16:00						
01/12/2025 17:00						
01/12/2025 18:00						
01/12/2025 19:00						
01/12/2025 20:00						
01/12/2025 21:00						
01/12/2025 22:00						
01/12/2025 23:00						
Minimum	13.95	242,367	23.36	10.87	0.00	0.00
Maximum	15.01	378,735	47.49	50.80	2.18	16.07
Avg	14.29	315,065	39.00	22.44	0.08	2.35
SUM						
STD				60	6	26

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/11/2025 00:00	14.850	417,561	45.996	37.520	1.151	2.922
01/11/2025 01:00	14.865	380,535	43.293	34.017	1.304	6.041
01/11/2025 02:00	14.869	387,711	43.543	32.685	1.100	4.702
01/11/2025 03:00	14.873	389,239	43.156	32.805	1.236	20.776
01/11/2025 04:00	14.877	397,471	43.256	32.044	1.159	24.789
01/11/2025 05:00	14.881	393,068	43.228	32.798	1.223	5.903
01/11/2025 06:00	14.885	382,791	43.092	32.645	1.195	3.547
01/11/2025 07:00	14.882	380,736	43.199	31.924	1.081	6.366
01/11/2025 08:00	14.879	377,651	43.095	32.338	1.005	10.970
01/11/2025 09:00	14.878	376,866	43.260	31.586	0.985	6.263
01/11/2025 10:00	14.880	380,521	43.144	30.230	0.569	3.658
01/11/2025 11:00	14.882	376,594	43.175	31.138	1.075	2.586
01/11/2025 12:00	14.884	381,263	43.033	31.019	0.871	2.338
01/11/2025 13:00	14.868	366,962	39.756	30.835	1.181	1.721
01/11/2025 14:00	14.840	368,179	39.437	30.043	0.957	1.333
01/11/2025 15:00	14.846	388,883	40.328	28.631	0.459	1.143
01/11/2025 16:00	14.868	397,072	39.880	28.217	0.493	0.700
01/11/2025 17:00	14.886	408,945	39.943	29.131	0.755	1.153
01/11/2025 18:00	14.865	388,841	37.806	30.500	1.120	2.422
01/11/2025 19:00	14.871	397,127	39.883	29.598	0.845	2.882
01/11/2025 20:00	14.816	397,328	39.452	28.750	0.486	2.312
01/11/2025 21:00	14.845	395,510	39.240	29.124	0.891	6.685
01/11/2025 22:00	14.919	333,226	25.557	30.906	1.016	9.845
01/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
02/11/2025 19:00	14.769	358,115	38.861	30.632	1.702	4.311
02/11/2025 20:00	14.804	365,377	38.518	30.815	1.435	2.573
02/11/2025 21:00	14.820	366,066	39.984	31.068	1.287	1.910
02/11/2025 22:00	14.636	320,254	33.948	27.737	1.278	2.345
02/11/2025 23:00	14.724	321122.406	33.205	28.052	1.233	5.722
03/11/2025 00:00	14.714	312501.281	31.762	26.144	1.211	15.128
03/11/2025 01:00	14.684	313536.031	33.684	26.143	1.272	24.512
03/11/2025 02:00	14.731	314359.656	33.516	26.266	1.287	13.239
03/11/2025 03:00	14.665	306256.719	33.278	27.404	1.256	21.246
03/11/2025 04:00	14.785	298440.375	32.310	29.819	1.449	21.289
03/11/2025 05:00	14.752	294797.781	31.571	32.619	1.150	8.976
03/11/2025 06:00	14.704	301574.125	33.035	27.084	1.314	16.603
03/11/2025 07:00	14.683	310359.000	33.991	28.306	1.245	4.311
03/11/2025 08:00	14.728	301427.500	31.925	26.397	1.079	20.114
03/11/2025 09:00	14.678	315509.313	33.848	26.129	0.728	8.986
03/11/2025 10:00	14.736	332,700	35.661	27.818	0.806	3.501
03/11/2025 11:00	14.752	327,042	33.097	26.930	0.801	2.277
03/11/2025 12:00	14.855	332,131	31.552	27.042	0.805	1.522
03/11/2025 13:00	14.962	323,829	30.051	33.430	0.682	1.863
03/11/2025 14:00	14.900	390,799	40.428	28.911	0.418	1.377
03/11/2025 15:00	14.882	402,243	40.644	31.297	0.834	6.972
03/11/2025 16:00	14.905	404,596	40.299	30.658	0.950	9.899
03/11/2025 17:00	14.873	404,183	39.970	30.323	1.054	3.504
03/11/2025 18:00	14.812	378,802	39.476	30.294	0.766	5.941
03/11/2025 19:00	14.821	381,565	39.737	29.449	0.529	13.585
03/11/2025 20:00	14.830	365,974	38.853	28.488	0.514	3.762
03/11/2025 21:00	14.800	363,234	39.776	30.657	0.851	9.570

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/11/2025 22:00	14.777	345122.250	38.393	30.203	0.966	4.311
03/11/2025 23:00	14.711	331031.156	37.337	27.927	0.840	2.573
04/11/2025 00:00	14.672	303741.750	33.452	26.844	0.948	1.910
04/11/2025 01:00	14.708	325460.406	36.536	28.153	0.907	23.743
04/11/2025 02:00	14.706	323562.250	36.273	27.280	0.898	19.472
04/11/2025 03:00	14.748	324349.000	36.375	27.685	0.760	17.360
04/11/2025 04:00	14.707	316984.500	34.775	26.906	0.546	13.773
04/11/2025 05:00	14.739	323317.656	36.169	27.356	0.853	9.611
04/11/2025 06:00	14.732	310343.719	34.185	28.398	0.980	13.122
04/11/2025 07:00	14.739	315481.625	35.688	27.988	1.102	16.940
04/11/2025 08:00	14.714	305393.000	33.503	26.478	0.963	13.959
04/11/2025 09:00	14.768	327756.219	36.650	29.388	0.905	5.826
04/11/2025 10:00	14.770	327536.250	34.752	28.359	0.841	3.520
04/11/2025 11:00	14.786	321522.719	33.665	27.879	0.563	2.524
04/11/2025 12:00	14.801	320997.125	32.360	27.649	0.492	2.309
04/11/2025 13:00	14.832	340361.563	34.076	29.876	0.609	1.632
04/11/2025 14:00	14.991	402,474	42.651	32.607	0.581	1.718
04/11/2025 15:00	14.974	390,768	40.926	35.050	0.830	2.249
04/11/2025 16:00	15.016	409,313	43.176	35.329	0.786	1.810
04/11/2025 17:00	14.978	402,957	42.794	32.357	0.429	3.010
04/11/2025 18:00	14.978	390,359	41.942	32.372	0.622	3.252
04/11/2025 19:00	14.937	372,790	41.012	33.314	1.087	5.264
04/11/2025 20:00	14.913	368,535	40.551	31.965	0.714	3.783
04/11/2025 21:00	14.922	369,707	41.406	33.852	1.215	1.695
04/11/2025 22:00	14.853	368587.156	41.608	33.177	1.108	7.134
04/11/2025 23:00	14.783	333788.281	37.493	29.629	1.076	11.681
05/11/2025 00:00	14.739	320046.844	35.345	29.541	1.117	12.618
05/11/2025 01:00	14.773	325472.406	36.774	30.488	1.218	13.050
05/11/2025 02:00	14.779	323994.906	36.812	30.964	1.278	11.515
05/11/2025 03:00	14.760	327025.094	36.814	30.821	1.186	12.902
05/11/2025 04:00	14.785	324781.594	37.044	29.787	1.128	13.001
05/11/2025 05:00	14.748	320127.875	36.561	30.348	1.377	14.036
05/11/2025 06:00	14.743	317500.688	36.460	29.152	1.044	17.121
05/11/2025 07:00	14.715	314580.094	35.283	27.358	0.680	15.178
05/11/2025 08:00	14.717	311809.250	33.661	28.600	1.251	8.384
05/11/2025 09:00	14.788	332186.438	35.756	28.058	0.545	4.807
05/11/2025 10:00	14.807	316506.500	34.391	29.065	0.742	3.388
05/11/2025 11:00	14.788	338640.688	32.937	29.651	0.798	2.210
05/11/2025 12:00	14.789	342970.969	33.846	28.274	0.534	2.167
05/11/2025 13:00	14.778	336170.406	33.250	28.605	0.717	2.446
05/11/2025 14:00	14.935	382,482	40.636	31.236	0.617	1.921
05/11/2025 15:00	14.949	372,582	39.583	31.739	0.534	2.420
05/11/2025 16:00	14.915	387,881	39.865	31.153	1.031	2.949
05/11/2025 17:00	14.948	379,549	39.799	31.744	0.763	2.964
05/11/2025 18:00	14.943	376,104	41.545	33.660	1.188	4.634
05/11/2025 19:00	14.923	372,231	40.168	31.416	0.660	7.182
05/11/2025 20:00	14.888	354,932	38.921	31.964	1.108	8.041
05/11/2025 21:00	14.857	362,675	40.348	31.882	1.026	9.366
05/11/2025 22:00	14.856	372,210	40.991	31.215	0.643	8.985
05/11/2025 23:00	14.776	351429.031	37.849	28.821	0.826	9.127
06/11/2025 00:00	14.785	340919.156	36.690	28.863	0.854	7.775
06/11/2025 01:00	14.788	335296.281	37.213	29.843	1.005	10.509
06/11/2025 02:00	14.747	325009.375	36.563	29.432	0.959	11.793
06/11/2025 03:00	14.739	324491.375	36.385	29.358	0.976	13.047
06/11/2025 04:00	14.752	330533.406	36.949	28.853	0.917	15.500
06/11/2025 05:00	14.765	328160.219	37.283	29.456	0.905	15.742
06/11/2025 06:00	14.767	333851.531	37.091	30.478	1.223	13.709
06/11/2025 07:00	14.764	326674.000	36.177	29.866	1.093	13.545
06/11/2025 08:00	14.731	309931.188	33.058	27.126	1.108	12.344
06/11/2025 09:00	14.729	323405.063	34.072	28.500	1.041	4.922
06/11/2025 10:00	14.795	342,439	34.858	28.827	0.942	3.142
06/11/2025 11:00	14.823	341,868	33.533	29.170	0.764	2.261
06/11/2025 12:00	14.059	340,098	32.284	23.627	0.543	0.000
06/11/2025 13:00	14.003	343,811	32.806	23.580	0.467	0.076
06/11/2025 14:00	14.135	392,738	39.913	27.978	0.549	0.000
06/11/2025 15:00	14.143	400,412	40.830	28.600	0.631	0.009
06/11/2025 16:00	14.302	429,024	42.753	33.560	1.464	0.678
06/11/2025 17:00	14.166	438,775	41.682	33.250	2.263	0.000
06/11/2025 18:00	14.088	416,097	40.951	30.329	1.079	0.000
06/11/2025 19:00	14.012	398,820	40.011	31.378	1.852	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/11/2025 20:00	14.012	387,684	39.747	30.525	2.084	0.000
06/11/2025 21:00	14.054	392,202	41.887	29.338	0.663	3.257
06/11/2025 22:00	14.054	388,923	42.023	30.432	1.102	3.270
06/11/2025 23:00	13.965	364,197	37.616	28.356	1.328	4.057
07/11/2025 00:00	13.900	339,868	35.206	26.811	1.333	4.563
07/11/2025 01:00	13.905	347,158	36.648	26.838	1.118	6.598
07/11/2025 02:00	13.919	350,911	37.216	27.636	1.071	4.769
07/11/2025 03:00	13.929	359,760	38.970	26.541	0.581	5.654
07/11/2025 04:00	13.915	340,756	36.839	27.504	1.508	5.765
07/11/2025 05:00	13.903	344,053	36.770	27.725	1.836	5.017
07/11/2025 06:00	13.913	344,410	37.455	26.065	0.950	10.610
07/11/2025 07:00	13.917	346,189	37.216	26.092	0.802	6.901
07/11/2025 08:00	13.851	337,320	35.063	24.334	0.693	4.720
07/11/2025 09:00	13.899	354,954	37.240	26.332	1.253	6.871
07/11/2025 10:00	13.923	345,271	35.947	25.453	0.528	4.087
07/11/2025 11:00	13.936	358,471	36.856	27.331	1.315	3.417
07/11/2025 12:00	13.913	343,985	34.230	24.564	0.734	1.892
07/11/2025 13:00	14.049	335,418	31.038	27.126	1.276	0.888
07/11/2025 14:00	14.053	387,253	39.973	26.648	0.009	0.944
07/11/2025 15:00	13.986	377,396	37.535	29.051	1.137	0.353
07/11/2025 16:00	14.092	396,556	40.973	29.733	0.792	0.675
07/11/2025 17:00	14.038	379,315	39.760	29.675	1.438	1.885
07/11/2025 18:00	14.016	375,851	40.056	29.813	1.668	2.713
07/11/2025 19:00	14.021	375,545	39.893	27.698	0.554	2.612
07/11/2025 20:00	13.992	373,620	39.650	26.943	0.014	2.956
07/11/2025 21:00	14.036	395,362	39.573	27.342	0.502	0.666
07/11/2025 22:00	14.014	436,699	41.782	27.967	0.654	0.409
07/11/2025 23:00	13.961	423,469	39.106	27.542	1.131	0.275
08/11/2025 00:00	13.879	415,827	36.714	26.563	1.407	0.000
08/11/2025 01:00	13.919	420,861	39.226	27.635	1.417	0.403
08/11/2025 02:00	13.926	401,247	37.967	26.890	1.384	0.683
08/11/2025 03:00	13.908	383,769	36.214	25.760	1.085	2.054
08/11/2025 04:00	13.902	395,718	37.115	25.801	0.701	1.921
08/11/2025 05:00	13.875	383,139	36.286	25.046	0.654	2.972
08/11/2025 06:00	13.924	386,715	36.147	25.648	0.560	2.606
08/11/2025 07:00	13.941	366,570	36.348	26.494	0.631	12.529
08/11/2025 08:00	13.905	340,256	33.560	27.315	2.080	4.468
08/11/2025 09:00	13.955	388,573	38.121	25.681	0.503	1.592
08/11/2025 10:00	13.913	378,264	35.280	24.317	0.307	0.418
08/11/2025 11:00	13.927	372,535	34.262	24.529	0.017	0.000
08/11/2025 12:00	13.954	414,832	34.515	24.884	0.018	0.000
08/11/2025 13:00	13.909	405,420	34.172	26.801	1.051	0.000
08/11/2025 14:00	14.064	441,895	39.349	27.169	0.015	0.092
08/11/2025 15:00	14.086	434,722	40.321	29.551	0.182	0.366
08/11/2025 16:00	14.072	450,370	41.693	29.472	0.416	1.161
08/11/2025 17:00	14.066	443,161	41.234	30.341	1.394	0.815
08/11/2025 18:00	14.061	427,709	40.734	29.299	1.108	2.802
08/11/2025 19:00	14.060	420,711	41.106	27.450	0.019	5.301
08/11/2025 20:00	13.987	408,081	39.642	27.203	0.384	5.357
08/11/2025 21:00	14.041	433,901	41.686	27.770	0.512	1.464
08/11/2025 22:00	14.006	431,883	42.015	27.860	0.584	0.430
08/11/2025 23:00	13.910	385,807	36.740	25.595	0.611	0.555
09/11/2025 00:00	13.854	368,487	36.405	24.578	0.400	0.722
09/11/2025 01:00	13.897	364,760	37.201	24.501	0.250	0.985
09/11/2025 02:00	13.925	384,684	38.069	28.182	2.189	0.648
09/11/2025 03:00	13.869	378,371	36.203	25.859	1.029	0.577
09/11/2025 04:00	13.853	368,377	36.292	25.330	0.668	0.690
09/11/2025 05:00	13.847	352,334	35.521	24.735	0.570	0.785
09/11/2025 06:00	13.848	347,887	35.791	26.119	1.719	3.944
09/11/2025 07:00	13.796	339,941	34.481	24.621	1.104	12.994
09/11/2025 08:00	13.983	330,596	30.621	26.673	0.213	5.616
09/11/2025 09:00	13.967	356,919	31.845	22.539	0.053	0.243
09/11/2025 10:00	14.019	356,743	31.017	26.533	0.226	0.000
09/11/2025 11:00	13.996	347,611	31.517	23.258	0.035	0.000
09/11/2025 12:00	14.013	343,826	30.584	24.972	0.956	0.000
09/11/2025 13:00	13.996	369,754	31.935	22.126	0.023	0.000
09/11/2025 14:00	13.965	377,643	33.783	26.327	0.476	0.000
09/11/2025 15:00	13.883	378,751	33.702	25.533	1.044	9.921
09/11/2025 16:00	13.896	391,548	32.328	22.936	0.293	5.070
09/11/2025 17:00	13.892	402,225	33.018	24.505	0.290	2.019

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @ 1 ATM	GTG11 LOAD	HRSG1 NOx@7%O2	HRSG1 SOx@7%O2	HRSG1 Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/11/2025 18:00	13.919	391,672	33.174	26.520	1.690	3.650
09/11/2025 19:00	14.089	459,275	45.072	33.820	0.667	0.342
09/11/2025 20:00	14.067	455,928	45.245	34.241	1.059	2.058
09/11/2025 21:00	14.044	469,646	45.579	33,257	0.226	0.632
09/11/2025 22:00	13.878	401,080	33.418	23.841	0.417	0.000
09/11/2025 23:00	13.878	395,828	34.318	23.346	0.310	0.627
10/11/2025 00:00	13.876	386,910	32.068	23.004	0.219	0.866
10/11/2025 01:00	13.833	376,332	34.667	22.756	0.161	1.806
10/11/2025 02:00	13.831	366,328	32.907	22.562	0.151	2.639
10/11/2025 03:00	13.871	365,025	33.121	23.277	0.534	1.428
10/11/2025 04:00	13.858	358,256	32.867	25.436	2.065	1.119
10/11/2025 05:00	13.856	372,743	33.906	24.655	1.595	0.912
10/11/2025 06:00	13.829	372,261	34.302	24.815	0.997	0.776
10/11/2025 07:00	13.849	374,127	33.775	24.874	0.644	0.553
10/11/2025 08:00	13.861	359,132	33.702	23.033	0.569	0.827
10/11/2025 09:00	13.862	360,310	33.337	23.550	0.078	0.183
10/11/2025 10:00	13.908	361,519	32.777	23.807	0.115	0.000
10/11/2025 11:00	13.956	380,006	32.868	25.656	0.811	0.000
10/11/2025 12:00	13.918	394,647	32.336	24.163	0.021	0.000
10/11/2025 13:00	14.033	399,175	29.743	29.099	0.851	0.272
10/11/2025 14:00	14.038	439,690	42.351	29.113	0.149	13.913
10/11/2025 15:00	13.997	391,944	41.238	26.929	0.644	14.874
10/11/2025 16:00	14.072	390,169	40.470	29.859	1.580	1.236
10/11/2025 17:00	14.054	402,979	41.418	29.193	0.669	1.325
10/11/2025 18:00	14.030	403,178	40.545	27.312	0.753	5.984
10/11/2025 19:00	14.002	400,448	40.864	28.926	1.658	2.911
10/11/2025 20:00	13.969	383,589	40.027	26.205	0.168	5.150
10/11/2025 21:00	13.876	349,027	36.276	24.060	0.232	6.041
10/11/2025 22:00	13.956	421,564	45.724	33.013	0.491	5.984
10/11/2025 23:00	14.013	397,117	43.428	27.955	0.530	5.959
11/11/2025 00:00	14.027	398,196	43.246	28.168	0.614	1.938
11/11/2025 01:00	14.021	398,067	43.229	27.619	0.452	0.633
11/11/2025 02:00	14.021	416,680	43.392	27.380	0.344	0.562
11/11/2025 03:00	14.024	428,710	43.405	30.767	2.183	0.309
11/11/2025 04:00	14.000	432,026	43.213	29.410	1.307	2.642
11/11/2025 05:00	14.036	431,580	43.132	28.587	0.749	1.188
11/11/2025 06:00	14.029	424,176	43.192	27.164	0.220	0.869
11/11/2025 07:00	14.021	419,416	43.266	30.624	2.211	1.742
11/11/2025 08:00	14.026	421,581	43.296	28.153	0.421	2.375
11/11/2025 09:00	14.066	423,307	43.349	28.127	0.170	1.294
11/11/2025 10:00	14.070	429,834	43.386	29.195	0.419	0.217
11/11/2025 11:00	14.115	431,815	43.393	30.499	0.106	0.394
11/11/2025 12:00	14.143	437,122	43.308	33.460	1.187	0.000
11/11/2025 13:00	14.100	425,575	40.792	29.200	0.012	0.059
11/11/2025 14:00	14.054	438,644	40.874	29.108	0.557	0.000
11/11/2025 15:00	14.089	452,273	41.004	28.491	0.021	2.055
11/11/2025 16:00	14.067	463,554	41.191	29.773	1.583	1.931
11/11/2025 17:00	14.032	452,512	39.872	26.824	0.020	1.147
11/11/2025 18:00	14.071	443,826	40.763	27.358	0.206	3.397
11/11/2025 19:00	14.025	433,012	40.464	29.778	1.719	4.142
11/11/2025 20:00	14.044	411,407	39.337	25.979	0.104	5.340
11/11/2025 21:00	14.035	456,661	45.525	37.659	0.470	2.168
11/11/2025 22:00	13.998	442,055	41.336	27.210	0.627	2.385
11/11/2025 23:00	13.889	402,749	36.840	26.130	1.173	2.182
12/11/2025 00:00	13.835	388,920	35.237	25.724	1.294	0.438
12/11/2025 01:00	13.834	403,581	35.450	25.857	1.643	0.132
12/11/2025 02:00	13.860	403,955	35.899	26.523	1.579	0.020
12/11/2025 03:00	13.873	388,969	35.873	26.267	1.347	0.227
12/11/2025 04:00	13.878	378,691	36.300	24.024	0.707	1.335
12/11/2025 05:00	13.905	373,861	36.922	24.688	0.619	0.627
12/11/2025 06:00	13.914	369,025	35.984	23.869	0.374	0.524
12/11/2025 07:00	13.811	350,145	34.019	23.175	0.253	0.429
12/11/2025 08:00	13.907	354,125	31.969	21.528	0.715	0.350
12/11/2025 09:00	13.900	361,240	32.568	21.208	0.018	0.000
12/11/2025 10:00	13.990	363,064	32.016	23.439	0.843	0.570
12/11/2025 11:00	13.937	376,135	34.126	22.809	0.015	0.000
12/11/2025 12:00	13.883	373,115	33.752	23.888	0.033	3.068
12/11/2025 13:00	14.033	367,869	29.918	28.977	1.254	2.949
12/11/2025 14:00	14.009	434,656	39.894	26.681	0.010	0.614
12/11/2025 15:00	14.053	444,313	40.052	29.804	0.968	0.344

Site Name:  
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GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/11/2025 16:00	14.082	457,379	40.142	27.662	0.017	0.066
12/11/2025 17:00	14.100	468,054	41.024	30.950	1.172	0.000
12/11/2025 18:00	14.082	420,625	40.064	30.554	1.478	0.000
12/11/2025 19:00	14.023	425,096	39.232	27.432	0.270	0.000
12/11/2025 20:00	13.997	428,881	39.042	28.954	1.495	0.000
12/11/2025 21:00	14.009	408,202	39.429	27.421	0.140	0.000
12/11/2025 22:00	13.794	345,939	30.952	25.895	0.259	0.096
12/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/11/2025 14:00	13.978	396,985	38.485	35.983	3.774	2.912
13/11/2025 15:00	14.070	417,382	39.434	33.324	1.936	1.906
13/11/2025 16:00	14.043	388,398	40.003	29.482	0.564	0.493
13/11/2025 17:00	14.033	369,713	39.653	30.862	1.058	3.017
13/11/2025 18:00	14.012	373,789	40.240	29.881	1.331	6.066
13/11/2025 19:00	13.994	371,040	40.605	28.723	1.103	7.125
13/11/2025 20:00	13.967	358,813	38.895	27.355	0.738	3.296
13/11/2025 21:00	13.964	359,079	39.450	28.421	0.770	1.509
13/11/2025 22:00	14.106	300,036	25.187	28.455	0.279	2.878
13/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/11/2025 14:00	14.100	394666.156	38.628	38.345	3.267	0.000
14/11/2025 15:00	14.187	404635.281	39.384	39.613	2.745	0.000
14/11/2025 16:00	14.223	405668.281	39.843	42.697	3.829	0.000
14/11/2025 17:00	14.190	396310.188	38.752	42.453	3.787	0.000
14/11/2025 18:00	14.140	387625.688	39.700	41.471	3.439	0.000
14/11/2025 19:00	14.124	384,276	40.435	41.141	3.341	0.000
14/11/2025 20:00	14.128	369,711	39.060	42.221	4.171	0.351
14/11/2025 21:00	14.112	366,614	39.590	41.898	3.673	0.037
14/11/2025 22:00	14.055	405,138	46.245	49.311	4.317	0.187
14/11/2025 23:00	14.155	384058.406	43.134	36.105	1.492	0.000
15/11/2025 00:00	14.143	387740.125	43.041	35.075	0.684	0.031
15/11/2025 01:00	14.135	383097.875	42.856	35.256	1.235	0.279
15/11/2025 02:00	14.150	385102.563	43.016	35.344	0.789	0.593
15/11/2025 03:00	14.128	386213.438	43.105	35.023	1.070	0.852
15/11/2025 04:00	14.116	381173.531	42.997	34.609	1.423	0.934
15/11/2025 05:00	14.116	381304.156	42.890	38.002	2.700	0.946
15/11/2025 06:00	14.101	377089.813	42.918	35.402	1.031	0.835
15/11/2025 07:00	14.117	382777.500	42.876	34.643	0.818	0.974
15/11/2025 08:00	14.155	382254.094	42.912	38.258	2.260	0.607
15/11/2025 09:00	14.212	390350.031	42.874	38.646	0.828	0.050
15/11/2025 10:00	14.219	384,909	42.719	39.327	1.302	0.000
15/11/2025 11:00	14.235	381,987	42.836	38.858	0.282	0.000
15/11/2025 12:00	14.252	385,246	42.843	38.628	0.654	0.000
15/11/2025 13:00	14.165	388,635	40.620	34.031	0.026	0.000

Site Name:  
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GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/11/2025 14:00	14.086	375,966	38.088	34.787	0.839	0.000
15/11/2025 15:00	14.128	371,126	37.315	32.585	0.013	0.000
15/11/2025 16:00	14.183	379,880	37.990	35.571	0.927	0.000
15/11/2025 17:00	14.170	389,658	39.371	35.549	1.377	0.000
15/11/2025 18:00	14.123	386,164	40.004	33.005	0.323	0.000
15/11/2025 19:00	14.069	373,634	39.710	32.122	0.620	0.000
15/11/2025 20:00	14.040	363,651	38.730	31.012	0.429	0.182
15/11/2025 21:00	14.083	371,842	40.202	32.478	0.647	0.000
15/11/2025 22:00	14.056	361,564	39.164	31.208	0.209	0.253
15/11/2025 23:00	13.953	329,589	34.717	30.392	1.338	0.558
16/11/2025 00:00	13.969	310,952	31.952	27.276	0.546	0.873
16/11/2025 01:00	13.927	320,363	34.477	29.110	1.174	0.939
16/11/2025 02:00	13.919	325,270	34.593	28.632	0.815	1.545
16/11/2025 03:00	13.909	322,971	35.000	27.983	0.830	1.997
16/11/2025 04:00	13.898	313,311	33.560	27.832	0.839	3.187
16/11/2025 05:00	13.927	309,080	32.861	26.965	0.891	4.413
16/11/2025 06:00	13.898	313,596	33.622	27.689	0.941	4.353
16/11/2025 07:00	13.923	327,350	35.095	29.155	1.796	3.833
16/11/2025 08:00	14.025	303,744	31.157	34.240	0.658	3.831
16/11/2025 09:00	14.089	307,812	29.332	33.116	0.507	2.345
16/11/2025 10:00	14.043	325,521	31.313	31.187	0.013	0.328
16/11/2025 11:00	14.115	328,323	30.009	32.423	0.016	0.405
16/11/2025 12:00	14.120	329,688	29.064	33.289	0.028	0.026
16/11/2025 13:00	14.076	338,381	29.829	34.028	0.691	0.026
16/11/2025 14:00	14.064	343,847	30.847	27.295	0.012	0.000
16/11/2025 15:00	14.004	359,799	33.210	25.727	0.027	0.000
16/11/2025 16:00	14.085	353,094	32.599	29.610	0.718	0.000
16/11/2025 17:00	14.021	347,708	31.796	27.665	0.772	0.000
16/11/2025 18:00	14.167	330,580	29.343	34.442	1.041	0.000
16/11/2025 19:00	14.033	383,033	40.823	29.421	0.264	0.353
16/11/2025 20:00	13.986	351,621	38.771	29.262	0.504	1.541
16/11/2025 21:00	13.987	355,626	39.042	29.892	0.638	2.364
16/11/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
16/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
17/11/2025 14:00	13.994	388,919	38.087	29.861	1.299	0.072
17/11/2025 15:00	14.094	396,633	39.601	31.623	1.449	0.000
17/11/2025 16:00	14.040	383,224	39.830	32.127	1.967	1.128
17/11/2025 17:00	14.017	390,159	39.546	29.275	0.375	0.888
17/11/2025 18:00	13.972	389,523	39.106	27.893	0.684	0.251
17/11/2025 19:00	13.977	386,510	39.375	29.628	1.343	4.056
17/11/2025 20:00	13.961	373,449	38.083	30.157	1.666	4.378
17/11/2025 21:00	14.015	381,790	39.702	31.395	2.019	4.806
17/11/2025 22:00	13.987	379,082	39.684	29.299	0.531	7.763
17/11/2025 23:00	13.919	351,985	35.933	25.703	0.295	8.138
18/11/2025 00:00	13.892	343,378	34.628	25.539	0.252	8.385
18/11/2025 01:00	13.917	350,093	36.592	26.396	0.315	9.646
18/11/2025 02:00	13.896	347,985	36.377	27.898	1.285	10.808
18/11/2025 03:00	13.904	343,732	35.231	28.302	1.383	8.943
18/11/2025 04:00	13.896	343,093	36.016	26.986	0.835	10.600
18/11/2025 05:00	13.915	339,247	36.004	26.643	0.622	13.636
18/11/2025 06:00	13.923	349,547	36.641	28.902	1.595	13.845
18/11/2025 07:00	13.896	340,383	35.285	26.041	0.711	11.658
18/11/2025 08:00	13.906	343,958	34.282	27.827	1.549	6.638
18/11/2025 09:00	13.917	347,395	33.214	27.297	1.268	3.939
18/11/2025 10:00	13.982	374,189	35.464	28.291	0.892	1.021
18/11/2025 11:00	13.970	373,018	36.468	25.347	0.021	0.895

Site Name:  
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GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/11/2025 12:00	13.909	355,233	34.116	25.159	0.016	1.180
18/11/2025 13:00	13.952	338,184	31.722	25.849	0.008	2.428
18/11/2025 14:00	13.958	388,595	39.805	29.567	0.993	1.955
18/11/2025 15:00	14.030	395,149	39.929	28.183	0.017	1.464
18/11/2025 16:00	14.081	401,024	41.290	28.997	0.317	1.907
18/11/2025 17:00	14.051	386,372	39.484	28.323	0.089	1.781
18/11/2025 18:00	13.998	379,195	38.632	30.052	1.202	2.963
18/11/2025 19:00	14.009	385,244	40.460	28.308	0.072	5.050
18/11/2025 20:00	13.991	378,530	40.291	26.960	0.021	5.808
18/11/2025 21:00	14.031	381,422	40.644	29.783	1.259	3.694
18/11/2025 22:00	13.958	376,204	39.904	30.628	1.542	4.943
18/11/2025 23:00	13.914	360,210	37.228	27.578	1.203	4.775
19/11/2025 00:00	13.959	352,096	36.517	26.488	0.528	2.776
19/11/2025 01:00	13.954	346,647	35.691	27.094	0.491	3.372
19/11/2025 02:00	13.922	342,052	36.505	27.578	0.298	2.193
19/11/2025 03:00	13.921	338,370	36.324	25.808	0.328	10.773
19/11/2025 04:00	13.899	326,761	34.451	26.750	0.618	9.150
19/11/2025 05:00	13.876	335,307	35.194	25.974	0.676	10.167
19/11/2025 06:00	13.912	333,884	35.096	28.860	1.592	6.251
19/11/2025 07:00	13.938	334,211	34.567	26.740	0.301	4.763
19/11/2025 08:00	13.972	327,021	32.019	27.695	1.441	3.290
19/11/2025 09:00	13.967	343,429	33.641	27.619	0.772	1.790
19/11/2025 10:00	13.956	346,656	32.975	27.308	0.012	0.851
19/11/2025 11:00	13.984	341,860	33.599	29.550	1.157	0.481
19/11/2025 12:00	13.985	333,629	31.765	26.498	0.024	0.015
19/11/2025 13:00	13.982	339,535	32.870	27.615	0.169	0.000
19/11/2025 14:00	14.124	419,334	45.181	36.076	0.011	0.000
19/11/2025 15:00	14.096	382,706	39.377	33.242	0.654	0.000
19/11/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/11/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/11/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/11/2025 19:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/11/2025 20:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
19/11/2025 21:00	13.975	338,128	34.385	27.760	0.194	0.256
19/11/2025 22:00	14.097	368,265	39.654	32.867	0.317	0.154
19/11/2025 23:00	13.991	341808.813	36.317	29.009	0.285	0.665
20/11/2025 00:00	14.051	340225.719	36.105	28.092	0.023	0.698
20/11/2025 01:00	14.028	338363.969	36.285	29.557	0.019	0.750
20/11/2025 02:00	14.076	351235.719	38.223	31.646	1.357	0.698
20/11/2025 03:00	13.998	338441.469	36.141	29.382	0.015	0.651
20/11/2025 04:00	14.015	328333.438	35.162	29.287	0.238	0.656
20/11/2025 05:00	13.990	330085.594	35.722	29.553	0.200	0.760
20/11/2025 06:00	14.016	332687.563	36.648	29.684	0.178	1.125
20/11/2025 07:00	13.952	321597.063	35.067	29.595	0.139	1.113
20/11/2025 08:00	13.982	315636.938	32.079	31.043	0.487	0.755
20/11/2025 09:00	14.019	326592.313	35.015	29.968	0.012	0.835
20/11/2025 10:00	14.070	339,767	36.140	29.643	0.009	1.059
20/11/2025 11:00	13.940	322,066	34.188	29.220	0.239	0.891
20/11/2025 12:00	14.025	320,100	32.012	32.030	0.021	1.056
20/11/2025 13:00	14.153	316,025	28.762	34.915	0.014	0.645
20/11/2025 14:00	14.002	370,899	38.919	29.617	0.015	0.487
20/11/2025 15:00	14.091	377,787	40.338	33.685	0.657	0.177
20/11/2025 16:00	14.111	385,963	41.133	32.713	0.027	0.000
20/11/2025 17:00	14.077	367,477	38.878	30.636	0.014	0.449
20/11/2025 18:00	14.080	369,719	39.836	33.719	0.680	0.896
20/11/2025 19:00	14.073	365,974	39.009	31.038	0.021	1.059
20/11/2025 20:00	14.059	367,889	39.371	31.950	0.425	1.024
20/11/2025 21:00	14.086	368,466	39.939	30.971	0.013	1.256
20/11/2025 22:00	14.090	380,427	41.236	32.338	0.015	1.580
20/11/2025 23:00	13.976	346,745	36.476	28.812	0.071	0.574
21/11/2025 00:00	13.944	333,821	34.098	29.895	1.119	1.117
21/11/2025 01:00	13.984	342,227	35.741	27.931	0.017	0.627
21/11/2025 02:00	13.974	335,793	35.540	28.434	0.025	1.504
21/11/2025 03:00	13.983	342,561	35.744	28.765	0.068	1.054
21/11/2025 04:00	13.986	340,110	35.350	28.640	0.131	0.874
21/11/2025 05:00	14.006	348,723	37.028	29.810	0.415	1.509
21/11/2025 06:00	13.977	337,686	35.679	29.355	0.480	1.116
21/11/2025 07:00	13.941	329,023	34.900	29.235	0.435	1.273
21/11/2025 08:00	13.975	325,697	33.792	30.104	0.854	1.036
21/11/2025 09:00	13.985	327,050	34.513	28.765	0.007	0.990

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/11/2025 10:00	13.984	330,366	34.327	30.467	0.929	1.053
21/11/2025 11:00	14.030	330,504	32.011	28.214	0.016	0.630
21/11/2025 12:00	14.110	324,405	30.566	35.399	0.018	0.924
21/11/2025 13:00	14.223	315,463	26.805	34.279	0.639	0.478
21/11/2025 14:00	14.005	370,216	38.606	28.895	0.022	0.630
21/11/2025 15:00	14.041	370,367	38.128	32.917	0.585	0.536
21/11/2025 16:00	14.060	368,688	38.415	28.982	0.023	0.411
21/11/2025 17:00	14.088	370,244	38.136	30.179	0.014	0.118
21/11/2025 18:00	14.038	368,822	38.668	33.705	0.842	0.487
21/11/2025 19:00	14.066	366,156	38.221	29.993	0.011	0.384
21/11/2025 20:00	14.052	357,967	37.682	31.071	0.102	0.296
21/11/2025 21:00	14.073	366,236	38.671	30.706	0.019	0.205
21/11/2025 22:00	14.046	362,335	38.549	31.657	0.019	0.385
21/11/2025 23:00	13.972	354078.813	36.079	27.749	0.018	0.412
22/11/2025 00:00	13.981	325180.781	31.797	32.174	0.835	0.724
22/11/2025 01:00	14.009	337206.563	34.907	29.325	0.190	0.698
22/11/2025 02:00	13.982	343995.813	35.985	27.270	0.015	0.932
22/11/2025 03:00	13.957	327726.969	33.351	27.305	0.019	0.599
22/11/2025 04:00	13.994	331142.250	33.841	27.456	0.018	0.730
22/11/2025 05:00	14.023	334426.375	34.663	28.100	0.026	0.791
22/11/2025 06:00	13.950	330919.156	34.151	30.546	1.025	0.936
22/11/2025 07:00	13.973	325404.250	33.708	27.308	0.191	1.192
22/11/2025 08:00	14.144	317415.031	29.876	33.784	0.012	0.927
22/11/2025 09:00	14.123	323455.469	29.975	37.604	0.632	0.754
22/11/2025 10:00	14.157	327,338	29.210	33.135	0.017	0.464
22/11/2025 11:00	14.184	338,859	30.888	32.724	0.013	0.374
22/11/2025 12:00	14.145	341,890	29.926	36.420	0.019	0.192
22/11/2025 13:00	14.270	337,681	27.248	31.531	0.012	0.000
22/11/2025 14:00	14.057	392,049	37.880	29.622	0.014	0.000
22/11/2025 15:00	14.056	388,883	36.514	30.435	0.016	0.000
22/11/2025 16:00	14.102	395,972	37.398	28.273	0.018	0.000
22/11/2025 17:00	14.175	410,392	39.048	30.653	0.014	0.000
22/11/2025 18:00	14.131	399,329	38.610	32.028	0.016	0.000
22/11/2025 19:00	14.051	381,041	38.159	31.975	0.619	0.000
22/11/2025 20:00	14.051	378,955	38.178	31.050	0.449	0.554
22/11/2025 21:00	14.055	380,411	39.492	29.747	0.018	0.873
22/11/2025 22:00	13.979	371,139	38.150	28.870	0.017	1.308
22/11/2025 23:00	13.904	345,302	34.696	25.936	0.010	1.166
23/11/2025 00:00	13.946	332,192	32.561	28.689	0.774	1.492
23/11/2025 01:00	13.970	343,512	35.418	25.537	0.024	1.292
23/11/2025 02:00	13.971	336,770	33.784	26.578	0.006	1.168
23/11/2025 03:00	13.948	339,143	35.005	25.739	0.007	1.289
23/11/2025 04:00	13.967	322,458	32.135	28.813	0.023	2.098
23/11/2025 05:00	13.984	319,925	31.844	33.461	0.019	1.781
23/11/2025 06:00	14.015	316,425	31.362	33.289	0.014	2.332
23/11/2025 07:00	14.019	320,608	31.932	33.568	0.011	2.612
23/11/2025 08:00	14.201	312,189	27.906	30.915	0.018	2.041
23/11/2025 09:00	14.201	323,732	28.283	30.470	0.023	1.452
23/11/2025 10:00	14.228	335,566	28.008	30.871	0.015	0.630
23/11/2025 11:00	14.230	340,126	27.833	34.155	0.008	0.336
23/11/2025 12:00	14.251	340,508	27.203	30.318	0.011	0.003
23/11/2025 13:00	14.256	349,373	26.973	31.419	0.013	0.000
23/11/2025 14:00	14.165	365,012	29.729	34.496	0.016	0.000
23/11/2025 15:00	14.226	366,336	28.920	31.016	0.018	0.000
23/11/2025 16:00	14.074	375,829	30.951	24.839	0.020	0.000
23/11/2025 17:00	14.196	368,400	29.507	34.744	0.014	0.000
23/11/2025 18:00	14.356	343,762	23.566	34.639	0.254	0.000
23/11/2025 19:00	14.063	394,673	38.190	26.430	0.019	0.232
23/11/2025 20:00	14.019	383,039	36.929	27.749	0.022	0.518
23/11/2025 21:00	14.004	376,752	36.808	29.353	0.352	1.014
23/11/2025 22:00	14.140	412,257	43.045	34.907	0.696	0.737
23/11/2025 23:00	14.116	416,238	43.180	33.146	0.440	0.927
24/11/2025 00:00	14.115	409,214	43.226	31.130	0.022	1.236
24/11/2025 01:00	14.122	405,516	43.141	33.527	0.225	1.214
24/11/2025 02:00	14.120	405,001	43.176	31.542	0.015	1.294
24/11/2025 03:00	14.100	405,904	43.109	31.571	0.011	0.883
24/11/2025 04:00	14.111	393,329	43.006	30.760	0.014	1.668
24/11/2025 05:00	14.101	393,491	43.077	34.228	0.924	2.570
24/11/2025 06:00	14.085	392,043	42.970	30.417	0.015	2.544
24/11/2025 07:00	14.107	394,697	43.151	30.648	0.023	3.219

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/11/2025 08:00	14.130	397,299	43.069	30.187	0.010	2.901
24/11/2025 09:00	14.143	406,033	43.080	31.859	0.032	1.886
24/11/2025 10:00	14.151	410,807	43.041	33.404	0.079	1.160
24/11/2025 11:00	14.160	420,083	43.101	30.844	0.015	1.040
24/11/2025 12:00	14.168	424,093	43.043	33.443	0.015	0.637
24/11/2025 13:00	14.128	418,693	40.805	28.755	0.015	0.445
24/11/2025 14:00	14.056	402,190	36.998	28.742	0.015	0.000
24/11/2025 15:00	14.047	404,685	37.368	27.474	0.015	0.029
24/11/2025 16:00	14.085	405,265	37.267	27.536	0.015	0.174
24/11/2025 17:00	14.106	406,071	37.651	28.919	0.015	0.000
24/11/2025 18:00	14.083	398,302	37.556	29.842	0.006	0.353
24/11/2025 19:00	14.047	391,210	37.283	27.827	0.026	0.571
24/11/2025 20:00	14.032	388,403	37.388	28.752	0.079	0.822
24/11/2025 21:00	13.996	383,239	37.663	29.668	0.378	1.028
24/11/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 14:00	14.055	410,590	38.468	38.236	2.292	0.000
25/11/2025 15:00	14.119	402,752	38.423	40.136	2.079	0.000
25/11/2025 16:00	14.130	414,667	39.267	42.751	2.877	0.000
25/11/2025 17:00	14.156	409,419	39.169	41.700	2.443	0.000
25/11/2025 18:00	14.120	407,240	39.658	41.284	2.319	0.000
25/11/2025 19:00	14.100	406,737	40.846	41.175	2.608	0.000
25/11/2025 20:00	14.093	388,887	38.326	31.148	0.106	0.000
25/11/2025 21:00	14.100	400,607	40.781	31.432	0.017	0.023
25/11/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/11/2025 14:00	14.027	399,133	37.887	38.731	2.696	0.000
26/11/2025 15:00	14.038	393,238	36.888	40.468	2.528	0.000
26/11/2025 16:00	14.049	439,307	45.041	45.503	1.839	0.000
26/11/2025 17:00	14.103	414,260	40.501	42.494	3.026	0.000
26/11/2025 18:00	14.068	399,969	39.977	40.406	2.240	0.000
26/11/2025 19:00	14.028	398,264	40.045	40.300	2.561	0.130
26/11/2025 20:00	14.020	385,802	38.948	39.289	2.412	0.186
26/11/2025 21:00	14.014	379,688	38.767	40.199	3.348	0.324
26/11/2025 22:00	14.082	427,871	46.948	40.092	0.095	0.559
26/11/2025 23:00	14.121	404,309	43.222	33.528	0.231	0.387
27/11/2025 00:00	14.132	401,977	43.238	36.579	1.339	0.424
27/11/2025 01:00	14.144	399,131	43.246	34.363	0.075	0.252
27/11/2025 02:00	14.151	398,143	43.289	34.024	0.184	0.384
27/11/2025 03:00	14.125	396,811	43.289	33.899	0.152	0.643
27/11/2025 04:00	14.122	387,466	43.255	34.457	0.331	0.801
27/11/2025 05:00	14.078	384,544	43.292	33.210	0.155	1.028

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/11/2025 06:00	14.113	385,451	43.273	34.084	0.559	0.825
27/11/2025 07:00	14.142	386,647	43.122	34.779	0.310	0.783
27/11/2025 08:00	14.157	392,169	43.032	36.493	1.006	0.634
27/11/2025 09:00	14.173	400,052	43.882	33.679	0.013	0.441
27/11/2025 10:00	14.187	401,002	42.914	33.663	0.020	0.054
27/11/2025 11:00	14.201	403,279	42.890	36.986	0.374	0.036
27/11/2025 12:00	14.215	413,429	42.860	36.334	0.014	0.033
27/11/2025 13:00	14.170	397,083	39.491	32.205	0.017	0.000
27/11/2025 14:00	14.071	374,584	36.471	32.810	0.017	0.000
27/11/2025 15:00	14.099	376,577	36.690	29.913	0.021	0.000
27/11/2025 16:00	14.119	391,507	38.094	33.039	0.020	0.000
27/11/2025 17:00	14.158	389,903	38.411	32.447	0.013	0.000
27/11/2025 18:00	14.152	351,886	39.104	30.937	0.012	0.000
27/11/2025 19:00	14.124	336,100	39.263	32.937	0.015	0.000
27/11/2025 20:00	14.054	320,120	37.702	30.631	0.014	0.000
27/11/2025 21:00	14.089	333,511	39.944	33.521	0.926	0.000
27/11/2025 22:00	14.160	259,677	26.097	34.062	0.027	0.000
27/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/11/2025 14:00	14.060	345,212	38.508	39.997	2.150	0.000
28/11/2025 15:00	14.089	350,882	38.339	43.279	2.078	0.000
28/11/2025 16:00	14.140	352,514	39.071	44.845	2.958	0.000
28/11/2025 17:00	14.122	354,187	38.688	44.152	2.652	0.000
28/11/2025 18:00	14.027	340,529	36.912	42.217	2.626	0.000
28/11/2025 19:00	14.056	335,568	36.071	32.303	0.020	0.000
28/11/2025 20:00	14.058	342,302	36.177	30.037	0.018	0.000
28/11/2025 21:00	14.037	342,801	36.785	30.691	0.012	0.000
28/11/2025 22:00	14.053	300,630	27.813	33.173	0.019	0.000
28/11/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/11/2025 14:00	14.027	384,770	35.643	36.782	1.745	0.000
29/11/2025 15:00	14.091	391,271	35.646	40.982	2.307	0.000
29/11/2025 16:00	14.137	397,981	37.483	41.236	2.667	0.000
29/11/2025 17:00	14.149	390,579	36.312	42.441	2.814	0.000
29/11/2025 18:00	14.048	376,553	36.751	40.701	2.257	0.000
29/11/2025 19:00	14.034	373,415	37.687	39.438	2.395	0.000
29/11/2025 20:00	13.996	361,631	36.671	38.376	2.127	0.000
29/11/2025 21:00	13.980	365,519	37.077	38.312	2.503	0.000
29/11/2025 22:00	14.129	408,767	44.802	34.820	1.155	0.000
29/11/2025 23:00	14.079	397,644	43.241	34.410	0.898	0.108
30/11/2025 00:00	14.109	395,564	43.152	32.542	0.011	0.000
30/11/2025 01:00	14.107	398,379	43.288	32.020	0.019	0.000
30/11/2025 02:00	14.077	395,103	42.978	31.835	0.012	0.000
30/11/2025 03:00	14.060	387,190	43.135	32.805	0.727	0.940

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Nov/25 00:00 - 31/Nov/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/11/2025 04:00	14.079	387,675	43.092	31.366	0.009	0.000
30/11/2025 05:00	14.051	382,077	43.019	31.754	0.017	0.104
30/11/2025 06:00	14.107	381,224	42.995	31.712	0.051	0.550
30/11/2025 07:00	14.072	381,784	42.969	34.268	1.094	0.635
30/11/2025 08:00	14.110	387,772	42.827	34.879	0.724	0.887
30/11/2025 09:00	14.157	400,333	42.870	34.357	0.018	0.123
30/11/2025 10:00	14.203	409,747	42.848	33.324	0.022	0.000
30/11/2025 11:00	14.250	420,984	42.748	37.924	0.008	0.016
30/11/2025 12:00	14.277	431,360	42.809	35.557	0.010	0.000
30/11/2025 13:00	14.266	441,034	42.760	35.218	0.012	0.000
30/11/2025 14:00	14.293	441,945	42.943	37.400	0.014	0.000
30/11/2025 15:00	14.300	448,273	42.833	34.778	0.015	0.000
30/11/2025 16:00	14.294	459,215	42.893	35.031	0.017	0.000
30/11/2025 17:00	14.278	468,837	43.310	35.136	0.024	0.000
30/11/2025 18:00	14.243	470,467	44.051	32.733	0.017	0.000
30/11/2025 19:00	14.075	383,891	36.454	30.107	0.011	0.000
30/11/2025 20:00	14.043	358,325	36.236	27.767	0.023	0.000
30/11/2025 21:00	14.008	367,519	36.965	29.319	0.072	0.000
30/11/2025 22:00	14.040	334,607	29.631	32.523	0.014	0.000
30/11/2025 23:00	14.034	333,381	30.909	32.741	0.044	0.000
01/12/2025 00:00						
01/12/2025 01:00						
01/12/2025 02:00						
01/12/2025 03:00						
01/12/2025 04:00						
01/12/2025 05:00						
01/12/2025 06:00						
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01/12/2025 08:00						
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01/12/2025 11:00						
01/12/2025 12:00						
01/12/2025 13:00						
01/12/2025 14:00						
01/12/2025 15:00						
01/12/2025 16:00						
01/12/2025 17:00						
01/12/2025 18:00						
01/12/2025 19:00						
01/12/2025 20:00						
01/12/2025 21:00						
01/12/2025 22:00						
01/12/2025 23:00						
Minimum	13.79	259,677	23.57	21.21	0.01	0.00
Maximum	15.02	470,467	46.95	49.31	4.32	24.79
Avg	14.18	371,238	37.59	30.39	0.75	2.73
SUM						
STD				60	6	26

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/12/2025 00:00	14.216	257,034	28.835	38.377	0.013	0.179
01/12/2025 01:00	14.147	268,378	30.951	35.018	0.008	0.511
01/12/2025 02:00	14.157	267,083	30.900	33.441	0.000	0.142
01/12/2025 03:00	14.163	262,988	30.693	47.768	1.781	0.000
01/12/2025 04:00	14.120	265,921	30.911	31.004	0.008	0.193
01/12/2025 05:00	14.091	273,500	31.944	29.856	0.002	0.191
01/12/2025 06:00	14.114	262,333	30.294	34.648	0.003	0.550
01/12/2025 07:00	14.137	266,093	31.085	35.419	0.009	0.305
01/12/2025 08:00	14.258	252,817	28.083	39.169	0.013	0.610
01/12/2025 09:00	14.253	262,356	29.965	41.016	0.002	0.383
01/12/2025 10:00	14.337	257,484	27.889	40.198	0.001	0.000
01/12/2025 12:00	14.311	261,223	28.750	28.648	0.001	0.009
01/12/2025 13:00	14.400	256,309	27.432	42.543	0.000	0.023
01/12/2025 14:00	14.316	327,398	38.211	21.252	0.000	0.000
01/12/2025 15:00	14.287	332,227	39.359	25.030	0.000	0.000
01/12/2025 16:00	14.272	328,312	39.005	22.886	0.000	0.000
01/12/2025 17:00	14.303	336,483	40.608	29.762	0.000	0.135
01/12/2025 18:00	14.276	333,695	40.206	27.396	0.000	0.248
01/12/2025 19:00	14.227	336,145	40.533	22.128	0.000	0.000
01/12/2025 20:00	14.158	326,937	39.483	16.699	0.002	0.000
01/12/2025 21:00	14.175	331,836	40.200	19.934	0.002	0.237
01/12/2025 22:00	14.090	323,603	39.713	19.152	0.004	0.412
01/12/2025 23:00	14.076	304,663.125	36.695	14.294	0.012	0.180
02/12/2025 00:00	14.064	296,469.000	35.132	25.739	0.669	0.260
02/12/2025 01:00	14.094	306,645.500	36.670	18.110	0.003	0.113
02/12/2025 02:00	14.090	302,195.750	36.222	16.570	0.001	0.054
02/12/2025 03:00	14.033	296,731.563	35.609	19.920	0.012	0.096
02/12/2025 04:00	14.062	292,732.594	35.003	13.431	0.008	0.270
02/12/2025 05:00	14.067	305,015.438	36.945	17.450	0.000	0.607
02/12/2025 06:00	14.050	310,626.844	37.662	24.115	0.074	0.327
02/12/2025 07:00	14.033	292,500.250	36.129	14.794	0.006	0.590
02/12/2025 08:00	14.072	271,889.063	31.802	21.706	0.003	0.550
02/12/2025 09:00	14.087	278,985.344	33.143	27.491	0.001	0.437
02/12/2025 10:00	14.178	267,792.281	30.793	25.814	0.001	0.093
02/12/2025 11:00	14.173	267,465.813	30.607	20.145	0.001	0.000
02/12/2025 12:00	14.327	262,557.656	29.274	33.253	0.001	0.044
02/12/2025 13:00	14.194	283,806	33.054	18.951	0.001	0.000
02/12/2025 14:00	14.372	366,589	43.967	27.452	0.000	0.000
02/12/2025 15:00	14.334	366,489	43.852	25.902	0.000	0.000
02/12/2025 16:00	14.286	332,473	39.317	24.134	0.000	0.142
02/12/2025 17:00	14.276	340,231	40.306	23.369	0.002	0.225
02/12/2025 18:00	14.221	326,088	39.292	23.562	0.004	0.000
02/12/2025 19:00	14.213	331,635	40.082	21.399	0.006	0.000
02/12/2025 20:00	14.199	329,831	39.844	16.959	0.008	0.049
02/12/2025 21:00	14.165	332,968	40.455	19.857	0.009	0.194
02/12/2025 22:00	14.106	326,287	39.729	20.514	0.002	0.000
02/12/2025 23:00	14.106	309,082.813	37.566	18.994	0.001	0.150
03/12/2025 00:00	14.022	295,853.250	35.963	18.950	0.004	0.000
03/12/2025 01:00	14.032	296,844.781	35.478	18.610	0.002	0.487
03/12/2025 02:00	14.094	309,153.875	38.167	16.828	0.006	0.511
03/12/2025 03:00	14.119	315,576.219	38.226	17.279	0.006	0.537
03/12/2025 04:00	14.065	299,560.875	35.927	11.875	0.000	0.545
03/12/2025 05:00	14.037	299,726.844	36.301	25.729	0.799	0.157
03/12/2025 06:00	14.059	303,786.844	36.270	16.419	0.005	0.000
03/12/2025 07:00	14.055	294,256.438	35.137	14.902	0.000	0.017
03/12/2025 08:00	14.087	273,241.688	32.325	20.491	0.001	0.000
03/12/2025 09:00	14.160	305,028.188	36.294	17.139	0.001	0.255
03/12/2025 10:00	14.114	278,297.875	32.846	21.193	0.001	0.064
03/12/2025 11:00	14.151	280,494.938	33.267	19.241	0.002	0.000
03/12/2025 12:00	14.185	273,981.063	31.407	19.557	0.002	0.000
03/12/2025 13:00	14.266	264,701	29.856	27.332	0.002	0.000
03/12/2025 14:00	14.310	342,697	40.591	22.442	0.003	0.000
03/12/2025 15:00	14.312	345,989	41.071	21.847	0.003	0.000
03/12/2025 16:00	14.304	341,984	41.038	23.195	0.003	0.000
03/12/2025 17:00	14.244	347,681	41.049	19.066	0.003	0.000
03/12/2025 18:00	14.221	329,709	40.008	24.519	0.003	0.251
03/12/2025 19:00	14.238	339,844	41.115	23.937	0.003	0.071
03/12/2025 20:00	14.203	336,660	40.816	20.141	0.003	0.104
03/12/2025 21:00	14.173	345,685	41.709	15.200	0.003	0.000
03/12/2025 22:00	14.119	334,051	40.724	26.508	0.003	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/12/2025 23:00	14.095	307,126	37.226	18.493	0.002	0.000
04/12/2025 00:00	14.082	302,705	36.106	22.947	0.001	0.000
04/12/2025 01:00	14.087	309,014	37.111	13.725	0.000	0.000
04/12/2025 02:00	14.138	315,574	38.358	18.962	0.000	0.085
04/12/2025 03:00	14.073	307,110	36.602	26.721	0.005	0.000
04/12/2025 04:00	14.094	291,056	34.913	18.705	0.004	0.000
04/12/2025 05:00	14.142	309,516	37.466	14.398	0.013	0.000
04/12/2025 06:00	14.121	292,832	35.633	18.725	0.004	0.000
04/12/2025 07:00	14.110	289,747	34.779	18.434	0.003	0.046
04/12/2025 08:00	14.139	268,285	31.602	21.279	0.004	0.000
04/12/2025 09:00	14.128	285,429	34.065	17.435	0.004	0.000
04/12/2025 10:00	14.110	276,242	31.984	19.184	0.004	0.000
04/12/2025 11:00	14.143	283,544	33.583	20.231	0.003	0.000
04/12/2025 12:00	14.247	273,579	31.651	21.493	0.003	0.000
04/12/2025 13:00	14.349	255,859	27.370	41.534	0.003	0.000
04/12/2025 14:00	14.198	315,748	37.381	22.083	0.003	0.000
04/12/2025 15:00	14.225	324,294	38.707	22.796	0.003	0.000
04/12/2025 16:00	14.303	345,239	40.061	22.802	0.003	0.000
04/12/2025 17:00	14.270	345,547	40.735	22.882	0.002	0.000
04/12/2025 18:00	14.219	333,696	40.175	22.522	0.002	0.000
04/12/2025 19:00	14.201	334,466	40.854	20.752	0.001	0.000
04/12/2025 20:00	14.202	323,379	38.960	20.411	0.001	0.000
04/12/2025 21:00	14.189	322,766	39.094	19.822	0.001	0.000
04/12/2025 22:00	14.159	328,181	39.972	20.185	0.000	0.000
04/12/2025 23:00	14.103	300,992	36.378	17.845	0.000	0.000
05/12/2025 00:00	14.077	294,953	35.121	17.864	0.000	0.000
05/12/2025 01:00	14.103	301,783	36.448	18.756	0.000	0.000
05/12/2025 02:00	14.083	301,535	36.853	18.334	0.000	0.000
05/12/2025 03:00	14.124	306,631	36.696	17.821	0.000	0.000
05/12/2025 04:00	14.061	303,863	36.723	18.597	0.000	0.332
05/12/2025 05:00	14.076	307,147	37.226	18.672	0.000	0.580
05/12/2025 06:00	14.076	300,166	35.716	17.641	0.000	0.591
05/12/2025 07:00	14.067	289,801	35.061	17.300	0.000	0.000
05/12/2025 08:00	14.150	264,088	30.306	31.737	0.000	0.312
05/12/2025 09:00	14.233	262,192	28.818	32.245	0.000	0.000
05/12/2025 10:00	14.179	264,566	30.859	31.663	0.000	0.000
05/12/2025 11:00	14.218	267,155	30.071	31.072	0.000	0.000
05/12/2025 12:00	14.286	264,147	29.465	35.865	0.000	0.000
05/12/2025 13:00	14.320	255,792	27.980	40.900	0.000	0.000
05/12/2025 14:00	14.163	275,421	31.730	22.888	0.004	0.000
05/12/2025 15:00	14.184	268,228	30.359	30.128	0.000	0.000
05/12/2025 16:00	14.111	280,471	33.373	17.762	0.000	0.000
05/12/2025 17:00	14.085	272,088	31.805	17.350	0.000	0.000
05/12/2025 18:00	14.222	260,313	28.689	37.687	0.000	0.000
05/12/2025 19:00	14.206	334,484	40.605	20.649	0.000	0.000
05/12/2025 20:00	14.160	324,130	39.349	18.750	0.000	0.000
05/12/2025 21:00	14.171	342,553	41.945	20.079	0.000	0.153
05/12/2025 22:00	14.011	279672.219	32.424	15.511	0.000	0.397
05/12/2025 23:00	14.060	277057.656	32.809	17.618	0.000	0.441
06/12/2025 00:00	14.087	268256.094	31.300	24.868	0.000	0.774
06/12/2025 01:00	14.046	273489.313	31.195	21.884	0.001	0.826
06/12/2025 02:00	14.066	273773.063	31.924	21.699	0.001	0.903
06/12/2025 03:00	14.004	275993.844	32.829	20.038	0.001	1.046
06/12/2025 04:00	14.128	268197.250	32.027	23.488	0.001	0.986
06/12/2025 05:00	14.084	268890.406	30.929	22.103	0.001	0.475
06/12/2025 06:00	14.060	274362.438	32.602	19.487	0.001	0.572
06/12/2025 07:00	14.097	266590.156	30.872	29.004	0.001	0.812
06/12/2025 08:00	14.165	260802.734	29.624	31.356	0.001	0.698
06/12/2025 09:00	14.152	267018.844	30.688	29.928	0.000	0.142
06/12/2025 10:00	14.170	272319.844	31.465	26.189	0.000	0.019
06/12/2025 11:00	14.135	280176.625	32.423	17.097	0.000	0.000
06/12/2025 12:00	14.141	274261.063	32.397	15.265	0.000	0.000
06/12/2025 13:00	14.456	244559.734	25.310	43.678	0.000	0.000
06/12/2025 14:00	14.234	331,741	40.001	20.465	0.000	0.000
06/12/2025 15:00	14.268	326,015	39.549	21.407	0.000	0.000
06/12/2025 16:00	14.324	352,140	42.018	22.875	0.000	0.000
06/12/2025 17:00	14.251	348,851	42.781	21.302	0.000	0.195
06/12/2025 18:00	14.237	337,701	39.945	22.174	0.000	0.748
06/12/2025 19:00	14.174	328,881	39.781	20.532	0.000	0.647
06/12/2025 20:00	14.153	331,492	40.095	23.012	0.000	0.217

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/12/2025 21:00	14.173	331,716	40.258	19.499	0.000	0.029
06/12/2025 22:00	14.091	333,763	40.738	19.323	0.000	0.059
06/12/2025 23:00	13.996	284,952	33.949	15.964	0.000	0.000
07/12/2025 00:00	13.996	282,069	33.635	15.975	0.000	0.000
07/12/2025 01:00	14.025	288,908	34.581	15.773	0.000	0.000
07/12/2025 02:00	14.028	290,780	35.006	16.133	0.000	0.000
07/12/2025 03:00	13.997	284,712	34.065	15.645	0.000	0.935
07/12/2025 04:00	14.009	280,128	33.380	16.207	0.000	0.410
07/12/2025 05:00	14.002	279,737	33.871	15.939	0.000	0.045
07/12/2025 06:00	14.023	284,310	34.713	16.301	0.000	0.000
07/12/2025 07:00	14.034	276,596	33.323	16.325	0.000	0.043
07/12/2025 08:00	14.173	262,149	29.801	36.287	0.000	0.323
07/12/2025 09:00	14.153	272,280	31.653	25.371	0.000	0.000
07/12/2025 10:00	14.243	262,828	29.905	32.559	0.000	0.000
07/12/2025 11:00	14.302	264,566	29.747	36.176	0.000	0.000
07/12/2025 12:00	14.296	266,200	29.336	33.505	0.000	0.000
07/12/2025 13:00	14.320	263,192	29.068	34.021	0.000	0.000
07/12/2025 14:00	14.295	272,178	31.164	33.578	0.000	0.000
07/12/2025 15:00	14.225	288,665	33.918	20.612	0.000	0.000
07/12/2025 16:00	14.150	276,323	32.339	20.198	0.000	0.000
07/12/2025 17:00	14.143	276,409	31.871	16.808	0.000	0.039
07/12/2025 18:00	14.350	250,186	25.799	42.313	0.000	0.390
07/12/2025 19:00	14.163	337,592	40.918	19.915	0.000	0.814
07/12/2025 20:00	14.123	319,358	38.381	19.637	0.000	0.414
07/12/2025 21:00	14.127	316,904	38.738	18.171	0.000	0.128
07/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
07/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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08/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
08/12/2025 14:00	14.245	324,608	38.230	22.728	0.000	0.000
08/12/2025 15:00	14.324	324,578	38.728	23.733	0.000	0.000
08/12/2025 16:00	14.296	323,055	38.608	24.319	0.000	0.000
08/12/2025 17:00	14.359	344,315	41.615	23.746	0.000	0.000
08/12/2025 18:00	14.354	350,695	42.288	24.818	0.000	0.000
08/12/2025 19:00	14.317	348,346	41.990	23.104	0.000	0.000
08/12/2025 20:00	14.242	334,713	40.704	23.452	0.000	0.000
08/12/2025 21:00	14.233	335,699	41.066	21.809	0.001	0.000
08/12/2025 22:00	14.227	378,023	46.587	28.483	0.000	0.000
08/12/2025 23:00	14.274	347,576	43.108	21.792	0.000	0.000
09/12/2025 00:00	14.773	348,005	43.136	27.977	0.000	0.000
09/12/2025 01:00	14.771	346,587	43.104	22.656	0.000	0.000
09/12/2025 02:00	14.770	344,676	43.034	21.821	0.000	0.000
09/12/2025 03:00	14.264	347,998	43.155	21.877	0.000	0.000
09/12/2025 04:00	14.253	344,029	42.910	21.728	0.000	0.000
09/12/2025 05:00	14.243	344,487	43.100	21.643	0.000	0.000
09/12/2025 06:00	14.249	347,883	43.261	20.468	0.000	0.000
09/12/2025 07:00	14.271	347,938	43.235	22.317	0.000	0.000
09/12/2025 08:00	14.293	347,692	43.059	22.443	0.000	0.000
09/12/2025 09:00	14.317	347,845	42.925	22.921	0.000	0.000
09/12/2025 10:00	14.343	351,724	42.955	23.765	0.000	0.000
09/12/2025 11:00	14.369	354,151	43.005	22.947	0.000	0.000
09/12/2025 12:00	14.375	351,214	42.957	26.475	0.000	0.

Site Name:  
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GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/12/2025 19:00	14.237	325,284	39.352	22.156	0.001	0.000
09/12/2025 20:00	14.233	328,609	40.113	22.139	0.002	0.000
09/12/2025 21:00	14.251	332,481	40.241	21.124	0.002	0.000
09/12/2025 22:00	14.232	378,825	46.748	26.161	0.002	0.000
09/12/2025 23:00	14.261	349,956	43.142	21.748	0.001	0.000
10/12/2025 00:00	14.251	347,850	43.097	21.838	0.001	0.000
10/12/2025 01:00	14.240	348,131	43.106	20.385	0.001	0.000
10/12/2025 02:00	14.229	349,445	43.216	20.952	0.000	0.000
10/12/2025 03:00	14.223	349,334	43.061	20.738	0.000	0.000
10/12/2025 04:00	14.220	346,248	43.016	20.540	0.000	0.000
10/12/2025 05:00	14.218	345,749	43.140	19.966	0.000	0.000
10/12/2025 06:00	14.216	347,258	43.091	18.917	0.000	0.000
10/12/2025 07:00	14.217	344,236	43.083	21.386	0.000	0.110
10/12/2025 08:00	14.248	349,294	42.994	21.519	0.000	0.320
10/12/2025 09:00	14.278	347,626	42.952	22.751	0.000	0.087
10/12/2025 10:00	14.308	349,241	42.908	25.253	0.000	0.000
10/12/2025 11:00	14.339	350,139	43.003	25.063	0.000	0.000
10/12/2025 12:00	14.383	353,362	43.075	22.742	0.000	0.000
10/12/2025 13:00	14.321	322,179	38.125	22.877	0.000	0.000
10/12/2025 14:00	14.313	339,846	40.289	21.740	0.000	0.000
10/12/2025 15:00	14.341	358,257	42.536	23.552	0.000	0.000
10/12/2025 16:00	14.328	344,010	41.650	23.676	0.000	0.000
10/12/2025 17:00	14.279	359,586	43.164	22.941	0.000	0.000
10/12/2025 18:00	14.296	347,152	42.465	22.583	0.000	0.000
10/12/2025 19:00	14.266	343,537	42.309	21.342	0.000	0.000
10/12/2025 20:00	14.235	336,315	41.381	21.438	0.000	0.000
10/12/2025 21:00	14.153	307,073	37.086	18.884	0.000	0.000
10/12/2025 22:00	14.041	266,612	29.630	20.692	0.004	0.000
10/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
11/12/2025 14:00	14.141	328,477	39.132	19.249	0.001	0.000
11/12/2025 15:00	14.193	330,555	39.741	24.725	0.001	0.016
11/12/2025 16:00	14.235	332,319	39.906	20.915	0.001	0.057
11/12/2025 17:00	14.185	333,328	40.306	20.561	0.001	0.149
11/12/2025 18:00	14.196	345,444	41.525	19.939	0.001	0.480
11/12/2025 19:00	14.192	335,694	40.526	19.338	0.001	0.518
11/12/2025 20:00	14.153	334,881	40.728	19.639	0.001	0.528
11/12/2025 21:00	14.210	374,778	46.645	23.982	0.002	1.010
11/12/2025 22:00	14.191	374,808	46.688	23.839	0.001	1.032
11/12/2025 23:00	14.235	349,593	43.206	21.021	0.001	0.789
12/12/2025 00:00	14.207	348,564	43.313	20.081	0.001	0.947
12/12/2025 01:00	14.198	350,063	43.210	20.039	0.001	0.918
12/12/2025 02:00	14.190	350,055	43.296	20.717	0.000	1.211
12/12/2025 03:00	14.182	349,449	43.202	22.023	0.000	1.252
12/12/2025 04:00	14.185	349,105	43.247	21.720	0.000	1.367
12/12/2025 05:00	14.194	347,818	43.349	20.015	0.000	1.674
12/12/2025 06:00	14.202	348,340	43.176	20.062	0.000	1.681
12/12/2025 07:00	14.211	350,807	43.162	19.808	0.000	2.062
12/12/2025 08:00	14.220	346,280	43.134	19.643	0.000	1.736
12/12/2025 09:00	14.229	352,134	43.183	20.729	0.000	1.225
12/12/2025 10:00	14.237	352,187	43.272	20.543	0.000	0.783
12/12/2025 11:00	14.251	354,110	43.261	20.810	0.000	0.372
12/12/2025 12:00	14.265	354,148	43.180	20.063	0.000	0.060
12/12/2025 13:00	14.240	350,144	42.853	20.184	0.000	0.000
12/12/2025 14:00	14.248	337,835	40.513	20.902	0.000	0.000
12/12/2025 15:00	14.241	336,896	40.517	20.707	0.000	0.000
12/12/2025 16:00	14.245	345,071	41.606	19.667	0.000	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust(7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/12/2025 17:00	14.217	332,523	39.917	19.917	0.000	0.000
12/12/2025 18:00	14.186	338,725	41.217	18.493	0.000	0.346
12/12/2025 19:00	14.149	339,487	40.979	18.984	0.000	0.000
12/12/2025 20:00	14.153	325,048	39.769	17.917	0.000	0.381
12/12/2025 21:00	14.116	331,642	40.144	19.034	0.000	0.686
12/12/2025 22:00	14.204	376,523	46.185	21.491	0.000	0.861
12/12/2025 23:00	14.187	348,932	43.330	19.145	0.000	0.670
13/12/2025 00:00	14.192	353,338	43.347	19.205	0.000	0.793
13/12/2025 01:00	14.196	350,162	43.291	18.857	0.000	0.838
13/12/2025 02:00	14.191	352,607	43.367	20.095	0.000	1.080
13/12/2025 03:00	14.187	350,117	43.493	19.380	0.000	1.278
13/12/2025 04:00	14.183	350,157	43.212	20.167	0.000	1.476
13/12/2025 05:00	14.178	350,187	43.220	19.352	0.000	1.376
13/12/2025 06:00	14.192	350,522	43.165	19.482	0.000	1.986
13/12/2025 07:00	14.210	348,075	43.161	19.656	0.000	1.920
13/12/2025 08:00	14.229	352,042	43.095	20.488	0.000	1.053
13/12/2025 09:00	14.266	353,017	43.172	20.581	0.000	0.659
13/12/2025 10:00	14.302	355,008	43.142	20.698	0.001	0.000
13/12/2025 11:00	14.314	352,263	43.151	24.859	0.001	0.000
13/12/2025 12:00	14.368	356,855	42.952	23.467	0.001	0.000
13/12/2025 13:00	14.268	337,402	40.691	22.206	0.001	0.000
13/12/2025 14:00	14.289	328,418	39.159	22.779	0.001	0.000
13/12/2025 15:00	14.277	315,493	37.651	21.772	0.000	0.000
13/12/2025 16:00	14.348	339,860	40.616	22.061	0.000	0.000
13/12/2025 17:00	14.260	327,485	38.609	22.179	0.000	0.000
13/12/2025 18:00	14.297	335,793	40.247	21.194	0.000	0.000
13/12/2025 19:00	14.289	341,888	40.770	21.647	0.000	0.000
13/12/2025 20:00	14.202	333,663	40.008	20.092	0.000	0.000
13/12/2025 21:00	14.151	329,913	39.700	19.486	0.000	0.000
13/12/2025 22:00	14.484	230,949	20.731	42.011	0.001	0.000
13/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
14/12/2025 19:00	14.188	324,055	39.797	21.173	0.001	0.000
14/12/2025 20:00	14.133	323,452	38.929	19.742	0.001	0.000
14/12/2025 21:00	14.192	329,536	39.416	20.867	0.001	0.000
14/12/2025 22:00	14.058	284,606	33.476	17.372	0.001	0.000
14/12/2025 23:00	14.106	276874.281	32.406	17.397	0.001	0.000
15/12/2025 00:00	14.094	274795.125	32.321	19.074	0.001	0.000
15/12/2025 01:00	14.077	283028.969	33.638	16.333	0.001	0.037
15/12/2025 02:00	14.066	283486.000	33.762	16.876	0.001	0.044
15/12/2025 03:00	14.095	286989.969	34.157	16.659	0.001	0.000
15/12/2025 04:00	14.058	278816.688	32.954	20.663	0.001	0.000
15/12/2025 05:00	14.098	283642.500	33.923	17.601	0.001	0.000
15/12/2025 06:00	14.101	280035.063	32.582	18.577	0.001	0.000
15/12/2025 07:00	14.099	286658.844	34.428	17.958	0.001	0.118
15/12/2025 08:00	14.141	271976.406	31.507	27.519	0.002	0.074
15/12/2025 09:00	14.137	275594.875	32.378	19.913	0.002	0.000
15/12/2025 10:00	14.201	270,041	31.252	31.447	0.002	0.000
15/12/2025 11:00	14.222	268,990	30.386	29.037	0.001	0.000
15/12/2025 12:00	14.252	267,215	29.824	30.378	0.001	0.000
15/12/2025 13:00	14.322	259,270	28.336	36.229	0.000	0.000
15/12/2025 14:00	14.222	321,423	37.691	20.519	0.000	0.000

Site Name:  
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Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/12/2025 15:00	14.287	332,044	39.473	21.862	0.000	0.000
15/12/2025 16:00	14.320	346,104	41.196	21.793	0.000	0.000
15/12/2025 17:00	14.312	339,906	40.847	22.628	0.000	0.000
15/12/2025 18:00	14.267	346,662	40.647	21.428	0.000	0.000
15/12/2025 19:00	14.190	335,709	40.238	19.939	0.000	0.154
15/12/2025 20:00	14.160	323,721	39.231	19.023	0.000	0.089
15/12/2025 21:00	14.195	347,675	41.793	19.134	0.000	0.000
15/12/2025 22:00	14.119	333,716	40.388	18.829	0.000	0.000
15/12/2025 23:00	14.081	301,148	36.563	18.425	0.000	0.000
16/12/2025 00:00	14.082	294,919	35.167	17.037	0.000	0.000
16/12/2025 01:00	14.092	300,491	36.389	18.897	0.000	0.000
16/12/2025 02:00	14.087	300,676	36.712	18.176	0.000	0.000
16/12/2025 03:00	14.118	299,007	35.818	18.150	0.000	0.000
16/12/2025 04:00	14.127	305,997	36.706	17.581	0.000	0.000
16/12/2025 05:00	14.137	306,158	36.372	16.813	0.000	0.000
16/12/2025 06:00	14.120	303,047	36.446	16.587	0.000	0.000
16/12/2025 07:00	14.101	296,776	35.405	16.739	0.000	0.000
16/12/2025 08:00	14.101	277,963	32.497	20.056	0.000	0.155
16/12/2025 09:00	14.096	281,146	33.467	19.374	0.000	0.000
16/12/2025 10:00	14.195	270,567	31.061	22.984	0.000	0.000
16/12/2025 11:00	14.192	272,717	31.536	20.196	0.000	0.000
16/12/2025 12:00	14.245	271,054	30.945	23.043	0.000	0.000
16/12/2025 13:00	14.320	261,253	28.613	35.533	0.000	0.000
16/12/2025 14:00	14.290	327,664	38.825	21.769	0.000	0.000
16/12/2025 15:00	14.333	341,810	40.526	22.654	0.000	0.000
16/12/2025 16:00	14.297	331,840	39.827	21.576	0.000	0.000
16/12/2025 17:00	14.313	352,084	41.821	22.274	0.000	0.033
16/12/2025 18:00	14.280	346,781	41.521	22.780	0.000	0.000
16/12/2025 19:00	14.261	339,845	40.632	20.761	0.000	0.000
16/12/2025 20:00	14.200	336,315	40.148	20.568	0.000	0.000
16/12/2025 21:00	14.143	331,614	39.926	20.017	0.000	0.000
16/12/2025 22:00	14.118	338,490	40.564	18.371	0.000	0.000
16/12/2025 23:00	14.100	317120.094	37.744	17.371	0.000	0.000
17/12/2025 00:00	14.064	298791.156	35.643	16.217	0.000	0.000
17/12/2025 01:00	14.037	299223.500	35.880	16.969	0.000	0.000
17/12/2025 02:00	14.047	295044.688	35.235	16.310	0.000	0.092
17/12/2025 03:00	14.033	292106.500	35.422	16.508	0.000	0.000
17/12/2025 04:00	14.098	295835.688	35.491	16.793	0.000	0.055
17/12/2025 05:00	14.079	305758.188	36.493	18.029	0.000	0.000
17/12/2025 06:00	14.113	300988.750	36.171	17.023	0.000	0.008
17/12/2025 07:00	14.129	305426.844	36.654	15.989	0.000	0.152
17/12/2025 08:00	14.093	275063.781	32.804	18.740	0.001	0.347
17/12/2025 09:00	14.152	302306.563	35.800	18.770	0.001	0.000
17/12/2025 10:00	14.132	280,560	32.827	20.466	0.001	0.000
17/12/2025 11:00	14.165	271,064	30.432	18.872	0.000	0.000
17/12/2025 12:00	14.187	280,360	33.177	15.819	0.000	0.000
17/12/2025 13:00	14.343	260,813	27.897	36.926	0.000	0.000
17/12/2025 14:00	14.272	339,216	40.600	22.537	0.000	0.000
17/12/2025 15:00	14.330	345,315	40.612	23.468	0.000	0.000
17/12/2025 16:00	14.372	359,803	42.117	23.053	0.000	0.000
17/12/2025 17:00	14.327	342,099	41.115	23.151	0.000	0.000
17/12/2025 18:00	14.765	339,148	40.508	27.622	0.000	0.000
17/12/2025 19:00	14.296	341,367	41.254	22.578	0.000	0.000
17/12/2025 20:00	14.207	340,470	40.756	20.649	0.000	0.000
17/12/2025 21:00	14.212	345,039	41.848	21.936	0.000	0.000
17/12/2025 22:00	14.152	329,218	39.992	19.874	0.000	0.000
17/12/2025 23:00	14.124	300,459	36.130	18.692	0.000	0.000
18/12/2025 00:00	14.078	286,659	34.296	18.212	0.000	0.000
18/12/2025 01:00	14.098	302,632	36.247	18.045	0.000	0.000
18/12/2025 02:00	14.131	310,730	36.566	19.087	0.000	0.000
18/12/2025 03:00	14.115	297,608	35.636	18.174	0.000	0.000
18/12/2025 04:00	14.072	298,884	35.957	18.186	0.000	0.000
18/12/2025 05:00	14.102	297,211	35.536	17.936	0.000	0.000
18/12/2025 06:00	14.094	299,088	35.980	17.535	0.000	0.000
18/12/2025 07:00	14.096	294,893	34.713	19.250	0.000	0.077
18/12/2025 08:00	14.085	277,156	33.123	18.626	0.000	0.000
18/12/2025 09:00	14.074	276,695	32.790	20.959	0.000	0.000
18/12/2025 10:00	14.139	278,468	32.474	19.380	0.000	0.000
18/12/2025 11:00	14.112	273,814	32.101	20.410	0.000	0.000
18/12/2025 12:00	14.182	276,590	32.404	8.502	0.000	0.000

Site Name:  
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GNLL2  
HRSG11  
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Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/12/2025 13:00	14.307	261,246	28.934	35.827	0.000	0.000
18/12/2025 14:00	14.234	335,878	39.829	21.798	0.000	0.000
18/12/2025 15:00	14.264	330,696	39.587	21.960	0.000	0.000
18/12/2025 16:00	14.336	359,146	42.798	22.161	0.001	0.000
18/12/2025 17:00	14.271	353,651	42.333	21.271	0.001	0.000
18/12/2025 18:00	14.209	340,556	39.884	21.032	0.001	0.052
18/12/2025 19:00	14.217	346,913	41.646	20.387	0.001	0.010
18/12/2025 20:00	14.172	331,293	40.009	19.495	0.001	0.000
18/12/2025 21:00	14.233	348,048	41.361	19.943	0.001	0.000
18/12/2025 22:00	14.216	345,921	41.008	19.341	0.001	0.000
18/12/2025 23:00	14.132	312,688	37.321	18.681	0.001	0.000
19/12/2025 00:00	14.058	295,088	34.961	17.255	0.002	0.000
19/12/2025 01:00	14.084	292,148	34.491	17.888	0.002	0.000
19/12/2025 02:00	14.110	309,295	36.762	18.388	0.001	0.000
19/12/2025 03:00	14.123	309,087	37.023	17.401	0.001	0.000
19/12/2025 04:00	14.115	300,807	35.512	18.622	0.001	0.000
19/12/2025 05:00	14.111	296,771	35.395	18.518	0.001	0.000
19/12/2025 06:00	14.136	299,063	36.071	18.364	0.001	0.000
19/12/2025 07:00	14.084	305,072	35.622	17.860	0.001	0.000
19/12/2025 08:00	14.085	276,869	33.099	17.079	0.000	0.235
19/12/2025 09:00	14.128	282,713	32.700	19.610	0.000	0.000
19/12/2025 10:00	14.260	266,096	30.699	35.572	0.000	0.000
19/12/2025 11:00	14.279	263,459	28.762	30.580	0.000	0.000
19/12/2025 12:00	14.364	258,072	27.721	40.100	0.000	0.000
19/12/2025 13:00	14.367	252,303	25.468	38.445	0.000	0.000
19/12/2025 14:00	14.285	319,608	37.134	20.481	0.000	0.000
19/12/2025 15:00	14.277	319,212	37.444	21.591	0.000	0.000
19/12/2025 16:00	14.267	318,293	37.768	21.173	0.000	0.000
19/12/2025 17:00	14.224	328,988	38.483	20.820	0.000	0.000
19/12/2025 18:00	14.233	317,314	37.820	20.434	0.000	0.000
19/12/2025 19:00	14.193	325,625	38.250	21.870	0.000	0.000
19/12/2025 20:00	14.156	312,459	37.181	19.276	0.000	0.000
19/12/2025 21:00	14.157	309,284	37.046	19.469	0.000	0.000
19/12/2025 22:00	14.094	309,326	37.280	18.365	0.000	0.000
19/12/2025 23:00	14.104	295796.969	34.896	16.060	0.000	0.000
20/12/2025 00:00	14.029	273775.906	31.858	16.879	0.000	0.000
20/12/2025 01:00	14.080	282500.656	33.261	16.916	0.000	0.000
20/12/2025 02:00	14.095	289739.656	34.703	16.040	0.000	0.000
20/12/2025 03:00	14.033	272386.625	32.367	16.402	0.000	0.000
20/12/2025 04:00	14.038	278395.063	32.598	17.062	0.000	0.000
20/12/2025 05:00	14.065	274492.438	32.605	18.896	0.000	0.000
20/12/2025 06:00	14.095	284259.063	33.821	16.520	0.000	0.000
20/12/2025 07:00	14.089	273600.188	31.556	17.359	0.000	0.004
20/12/2025 08:00	14.230	261146.109	28.842	36.946	0.000	0.319
20/12/2025 09:00	14.171	275266.625	32.082	21.546	0.000	0.000
20/12/2025 10:00	14.185	291,460	33.536	20.261	0.000	0.000
20/12/2025 11:00	14.171	275,214	31.487	20.795	0.000	0.000
20/12/2025 12:00	14.308	266,820	29.409	31.002	0.000	0.000
20/12/2025 13:00	14.332	267,193	29.074	33.485	0.001	0.000
20/12/2025 14:00	14.314	324,709	38.101	22.133	0.001	0.000
20/12/2025 15:00	14.410	339,814	40.862	23.868	0.001	0.000
20/12/2025 16:00	14.420	351,196	41.171	25.275	0.001	0.000
20/12/2025 17:00	14.329	354,126	41.448	22.409	0.001	0.000
20/12/2025 18:00	14.294	350,758	41.707	22.311	0.001	0.000
20/12/2025 19:00	14.328	356,589	42.941	19.812	0.001	0.077
20/12/2025 20:00	14.196	331,798	40.139	20.528	0.001	0.000
20/12/2025 21:00	14.231	348,644	42.324	20.495	0.001	0.000
20/12/2025 22:00	14.240	345,200	42.465	21.455	0.001	0.000
20/12/2025 23:00	14.147	307,042	37.461	19.959	0.001	0.000
21/12/2025 00:00	14.133	294,679	34.783	17.389	0.002	0.000
21/12/2025 01:00	14.131	299,541	35.867	18.398	0.001	0.000
21/12/2025 02:00	14.138	310,784	37.770	19.990	0.001	0.000
21/12/2025 03:00	14.172	307,018	36.869	17.757	0.001	0.000
21/12/2025 04:00	14.117	282,560	33.560	18.152	0.000	0.000
21/12/2025 05:00	14.198	290,705	34.204	18.724	0.000	0.000
21/12/2025 06:00	14.189	295,787	35.380	17.406	0.000	0.000
21/12/2025 07:00	14.099	286,305	33.994	17.804	0.000	0.000
21/12/2025 08:00	14.220	266,053	30.354	35.456	0.000	0.000
21/12/2025 09:00	14.194	273,663	32.323	24.547	0.000	0.000
21/12/2025 10:00	14.304	274,321	31.591	38.724	0.000	0.000

Site Name:  
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GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/12/2025 11:00	14.347	267,806	30.298	34.156	0.000	0.000
21/12/2025 12:00	14.369	264,948	29.223	38.939	0.000	0.000
21/12/2025 13:00	14.314	271,467	30.473	27.912	0.000	0.000
21/12/2025 14:00	14.333	269,047	30.300	22.188	0.000	0.000
21/12/2025 15:00	14.288	280,607	32.478	21.204	0.000	0.000
21/12/2025 16:00	14.325	271,071	31.088	20.355	0.000	0.000
21/12/2025 17:00	14.218	280,888	32.320	19.883	0.000	0.000
21/12/2025 18:00	14.487	248,913	25.386	48.437	0.000	0.000
21/12/2025 19:00	14.307	338,989	40.920	22.637	0.000	0.000
21/12/2025 20:00	14.232	317,939	38.390	21.247	0.000	0.000
21/12/2025 21:00	14.252	323,092	38.383	20.691	0.000	0.000
21/12/2025 22:00	14.263	346,013	42.956	22.469	0.000	0.000
21/12/2025 23:00	14.246	351179.156	43.364	20.704	0.000	0.000
22/12/2025 00:00	14.254	346062.219	43.102	20.280	0.000	0.000
22/12/2025 01:00	14.262	349700.563	43.082	20.279	0.000	0.000
22/12/2025 02:00	14.257	351348.406	43.130	20.771	0.000	0.000
22/12/2025 03:00	14.251	350928.188	43.139	21.802	0.000	0.000
22/12/2025 04:00	14.246	350833.969	43.080	22.051	0.000	0.000
22/12/2025 05:00	14.240	350050.031	43.268	22.420	0.000	0.000
22/12/2025 06:00	14.234	348129.719	43.103	21.031	0.000	0.000
22/12/2025 07:00	14.253	349029.656	43.024	21.751	0.000	0.000
22/12/2025 08:00	14.274	349883.500	43.175	20.386	0.000	0.370
22/12/2025 09:00	14.297	352192.875	43.136	22.854	0.000	0.000
22/12/2025 10:00	14.324	354,092	43.097	27.819	0.000	0.000
22/12/2025 11:00	14.351	352,687	43.083	25.037	0.000	0.000
22/12/2025 12:00	14.378	356,561	43.195	21.830	0.000	0.000
22/12/2025 13:00	14.314	333,347	39.651	20.995	0.000	0.000
22/12/2025 14:00	14.265	317,400	38.159	19.874	0.000	0.000
22/12/2025 15:00	14.347	347,036	40.802	18.609	0.000	0.000
22/12/2025 16:00	14.280	335,821	39.346	18.348	0.000	0.000
22/12/2025 17:00	14.246	342,145	40.315	20.480	0.000	0.000
22/12/2025 18:00	14.252	339,243	40.704	21.057	0.000	0.000
22/12/2025 19:00	14.221	326,429	39.130	20.013	0.000	0.000
22/12/2025 20:00	14.148	323,583	38.610	19.866	0.000	0.000
22/12/2025 21:00	14.198	339,900	41.033	18.654	0.000	0.000
22/12/2025 22:00	14.257	376,445	46.707	18.980	0.000	0.125
22/12/2025 23:00	14.222	353,101	43.316	19.593	0.000	0.000
23/12/2025 00:00	14.219	354,149	43.333	19.610	0.000	0.000
23/12/2025 01:00	14.216	352,317	43.323	19.417	0.000	0.203
23/12/2025 02:00	14.213	353,067	43.477	19.065	0.000	0.528
23/12/2025 03:00	14.210	348,374	43.303	18.865	0.000	0.310
23/12/2025 04:00	14.207	350,189	43.134	18.635	0.000	0.366
23/12/2025 05:00	14.204	352,126	43.378	18.324	0.000	0.214
23/12/2025 06:00	14.203	350,389	43.146	18.635	0.000	0.133
23/12/2025 07:00	14.225	348,203	43.165	20.095	0.000	0.376
23/12/2025 08:00	14.246	350,320	43.181	18.514	0.000	0.523
23/12/2025 09:00	14.276	351,563	43.169	21.762	0.000	0.000
23/12/2025 10:00	14.338	354,586	43.080	22.681	0.000	0.000
23/12/2025 11:00	14.359	356,353	43.035	23.284	0.000	0.000
23/12/2025 12:00	14.381	357,181	43.074	23.142	0.000	0.000
23/12/2025 13:00	14.349	338,131	40.463	21.997	0.000	0.000
23/12/2025 14:00	14.293	327,963	38.530	22.217	0.000	0.000
23/12/2025 15:00	14.254	317,775	37.215	20.551	0.000	0.000
23/12/2025 16:00	14.268	324,750	38.659	21.449	0.000	0.000
23/12/2025 17:00	14.285	333,718	39.420	21.956	0.000	0.000
23/12/2025 18:00	14.241	323,543	38.709	23.026	0.000	0.000
23/12/2025 19:00	14.199	320,438	38.433	20.836	0.000	0.000
23/12/2025 20:00	14.196	314,237	37.718	20.274	0.000	0.000
23/12/2025 21:00	14.176	323,505	38.941	19.246	0.000	0.000
23/12/2025 22:00	14.019	267,477	28.907	18.797	0.000	0.000
23/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
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Periodically:

GNLL2  
HRSG11  
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Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
24/12/2025 14:00	14.265	327,438	38.296	23.570	0.004	0.000
24/12/2025 15:00	14.251	317,276	37.570	21.775	0.004	0.000
24/12/2025 16:00	14.281	330,479	38.757	22.134	0.004	0.000
24/12/2025 17:00	14.285	333,333	38.949	22.961	0.003	0.000
24/12/2025 18:00	14.268	326,611	38.777	21.573	0.003	0.000
24/12/2025 19:00	14.211	334,747	40.222	20.689	0.003	0.000
24/12/2025 20:00	14.190	311,103	37.512	19.672	0.002	0.000
24/12/2025 21:00	14.203	323,643	38.838	19.572	0.002	0.000
24/12/2025 22:00	14.253	365,055	45.106	17.659	0.002	0.000
24/12/2025 23:00	14.269	352,070	43.192	19.862	0.002	0.000
25/12/2025 00:00	14.266	354,119	43.409	20.490	0.001	0.000
25/12/2025 01:00	14.264	352,093	43.257	20.753	0.001	0.000
25/12/2025 02:00	14.262	353,886	43.203	20.153	0.001	0.000
25/12/2025 03:00	14.259	351,891	43.243	19.974	0.001	0.000
25/12/2025 04:00	14.257	351,735	43.209	20.766	0.001	0.000
25/12/2025 05:00	14.255	349,358	43.135	20.085	0.000	0.000
25/12/2025 06:00	14.259	350,044	43.261	20.471	0.000	0.000
25/12/2025 07:00	14.268	348,884	43.085	22.384	0.000	0.000
25/12/2025 08:00	14.276	351,770	43.156	20.699	0.000	0.000
25/12/2025 09:00	14.331	354,108	43.054	22.574	0.000	0.000
25/12/2025 10:00	14.401	354,419	43.002	24.735	0.000	0.000
25/12/2025 11:00	14.435	356,852	42.932	26.433	0.000	0.000
25/12/2025 12:00	14.441	360,285	42.976	26.670	0.000	0.000
25/12/2025 13:00	14.398	340,192	40.634	25.054	0.000	0.000
25/12/2025 14:00	14.269	300,877	35.459	23.858	0.000	0.000
25/12/2025 15:00	14.286	300,934	35.002	22.878	0.000	0.000
25/12/2025 16:00	14.300	302,931	35.384	22.739	0.000	0.000
25/12/2025 17:00	14.231	305,955	36.199	20.816	0.000	0.000
25/12/2025 18:00	14.228	312,829	36.929	21.757	0.000	0.000
25/12/2025 19:00	14.235	320,914	38.121	21.275	0.000	0.000
25/12/2025 20:00	14.126	298,923	35.491	19.871	0.001	0.000
25/12/2025 21:00	14.166	307,074	37.206	20.259	0.001	0.000
25/12/2025 22:00	14.265	372,915	45.759	24.131	0.001	0.000
25/12/2025 23:00	14.294	354,769	43.151	21.742	0.001	0.000
26/12/2025 00:00	14.303	356,125	43.296	21.479	0.001	0.000
26/12/2025 01:00	14.312	352,246	43.175	22.508	0.001	0.000
26/12/2025 02:00	14.314	353,731	43.238	21.820	0.001	0.000
26/12/2025 03:00	14.316	353,605	43.216	24.556	0.001	0.000
26/12/2025 04:00	14.318	355,766	43.084	21.352	0.000	0.000
26/12/2025 05:00	14.320	352,998	43.237	22.264	0.000	0.000
26/12/2025 06:00	14.321	352,191	43.270	21.337	0.001	0.000
26/12/2025 07:00	14.323	352,493	43.174	22.677	0.001	0.000
26/12/2025 08:00	14.325	352,177	43.244	21.387	0.001	0.000
26/12/2025 09:00	14.331	353,030	43.199	22.243	0.001	0.000
26/12/2025 10:00	14.360	354,739	43.234	21.425	0.002	0.000
26/12/2025 11:00	14.368	357,009	43.172	22.927	0.002	0.000
26/12/2025 12:00	14.370	356,154	43.107	23.520	0.002	0.000
26/12/2025 13:00	14.261	328,685	40.105	22.488	0.002	0.000
26/12/2025 14:00	14.228	310,642	36.863	21.588	0.002	0.000
26/12/2025 15:00	14.188	302,983	36.090	19.901	0.002	0.000
26/12/2025 16:00	14.152	309,912	36.817	19.450	0.002	0.000
26/12/2025 17:00	14.104	289,150	35.186	18.823	0.002	0.000
26/12/2025 18:00	14.078	297,276	35.173	19.389	0.002	0.000
26/12/2025 19:00	14.139	296,895	35.439	18.475	0.002	0.000
26/12/2025 20:00	14.100	297,342	35.161	17.754	0.002	0.000
26/12/2025 21:00	14.139	309,054	37.019	17.527	0.002	0.000
26/12/2025 22:00	14.095	306,191	37.139	17.964	0.002	0.000
26/12/2025 23:00	14.176	258,783	28.559	34.764	0.001	0.000
27/12/2025 00:00	14.296	250,852	26.652	38.391	0.001	0.000
27/12/2025 01:00	14.340	246,769	26.380	42.620	0.001	0.000
27/12/2025 02:00	14.281	250,682	26.875	40.519	0.001	0.000
27/12/2025 03:00	14.331	250,732	26.959	43.894	0.001	0.110
27/12/2025 04:00	14.233	254,410	27.255	39.514	0.001	0.000
27/12/2025 05:00	14.313	244,659	26.162	42.213	0.001	0.016
27/12/2025 06:00	14.329	246,274	26.051	41.312	0.001	0.093

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/12/2025 07:00	14.268	251,856	26.894	39.399	0.001	0.044
27/12/2025 08:00	14.403	239,731	24.634	46.130	0.000	0.034
27/12/2025 09:00	14.454	237,859	24.458	48.617	0.000	0.000
27/12/2025 10:00	14.534	234,496	23.442	49.676	0.000	0.000
27/12/2025 11:00	14.577	233,208	22.593	51.510	0.000	0.000
27/12/2025 12:00	14.583	233,401	22.775	51.841	0.000	0.000
27/12/2025 13:00	14.619	229,101	21.703	51.069	0.000	0.000
27/12/2025 14:00	14.447	245,512	25.272	44.373	0.000	0.000
27/12/2025 15:00	14.412	252,951	25.995	41.589	0.000	0.000
27/12/2025 16:00	14.431	249,303	24.840	42.591	0.000	0.000
27/12/2025 17:00	14.429	246,137	24.750	40.935	0.000	0.000
27/12/2025 18:00	14.568	232,710	22.135	46.882	0.000	0.000
27/12/2025 19:00	14.114	293,452	35.066	18.252	0.000	0.000
27/12/2025 20:00	14.177	305,134	36.449	19.240	0.000	0.000
27/12/2025 21:00	14.160	298,534	35.435	19.237	0.000	0.000
27/12/2025 22:00	14.294	376,740	46.493	25.190	0.000	0.000
27/12/2025 23:00	14.282	376,688	46.660	25.653	0.000	0.000
28/12/2025 00:00	14.269	373,046	46.788	25.440	0.000	0.000
28/12/2025 01:00	14.257	372,712	46.653	25.007	0.000	0.000
28/12/2025 02:00	14.248	374,675	46.525	25.844	0.000	0.000
28/12/2025 03:00	14.244	374,639	46.601	25.124	0.000	0.000
28/12/2025 04:00	14.242	372,677	46.843	26.473	0.001	0.000
28/12/2025 05:00	14.252	376,594	46.904	25.039	0.001	0.067
28/12/2025 06:00	14.262	374,747	47.095	25.088	0.001	0.134
28/12/2025 07:00	14.272	375,176	47.133	25.618	0.001	0.189
28/12/2025 08:00	14.294	375,710	46.933	25.040	0.001	0.042
28/12/2025 09:00	14.274	374,580	46.706	25.692	0.001	0.027
28/12/2025 10:00	14.284	370,822	46.071	25.394	0.001	0.000
28/12/2025 11:00	14.292	370,715	45.809	25.648	0.001	0.000
28/12/2025 12:00	14.299	368,690	45.367	26.160	0.001	0.000
28/12/2025 13:00	14.306	368,200	45.143	27.032	0.001	0.000
28/12/2025 14:00	14.313	364,493	44.888	27.592	0.000	0.000
28/12/2025 15:00	14.320	366,212	44.868	26.567	0.000	0.000
28/12/2025 16:00	14.329	366,594	44.836	26.087	0.000	0.000
28/12/2025 17:00	14.340	367,964	44.998	26.110	0.000	0.000
28/12/2025 18:00	14.317	339,880	41.858	24.034	0.000	0.000
28/12/2025 19:00	14.158	288,152	34	20	0	0
28/12/2025 20:00	14.140	286,727	34	18	0	0
28/12/2025 21:00	14.180	294,984	35	18	0	0
28/12/2025 22:00	14.291	378,890	46	24	0	0
28/12/2025 23:00	14.278	374343.281	46.697	25.269	0.000	0.000
29/12/2025 00:00	14.288	375988.938	46.869	25.126	0.000	0.000
29/12/2025 01:00	14.265	374246.969	46.988	24.327	0.000	0.000
29/12/2025 02:00	14.270	375312.625	46.971	25.905	0.000	0.000
29/12/2025 03:00	14.306	376079.656	46.982	26.524	0.000	0.000
29/12/2025 04:00	14.288	375072.906	47.099	23.614	0.000	0.000
29/12/2025 05:00	14.306	378096.906	47.065	21.659	0.000	0.000
29/12/2025 06:00	14.319	378792.688	47.130	22.330	0.000	0.000
29/12/2025 07:00	14.334	376793.656	47.093	26.650	0.000	0.000
29/12/2025 08:00	14.305	376036.875	47.007	25.857	0.000	0.043
29/12/2025 09:00	14.333	370894.313	46.386	26.358	0.000	0.000
29/12/2025 10:00	14.343	370676.281	45.596	29.998	0.000	0.000
29/12/2025 11:00	14.359	369.592	45	28	0	0
29/12/2025 12:00	14.371	364,456	45	27	0	0
29/12/2025 13:00	14.369	365,188	45	27	0	0
29/12/2025 14:00	14.368	365,296	44	27	0	0
29/12/2025 15:00	14.367	362,751	44	28	0	0
29/12/2025 16:00	14.365	364,415	44	27	0	0
29/12/2025 17:00	14.341	366,589	45	26	0	0
29/12/2025 18:00	14.162	305,899	36	23	0	0
29/12/2025 19:00	14.112	276,620	33	19	0	0
29/12/2025 20:00	14.131	274,432	32	17	0	0
29/12/2025 21:00	14.100	284,360	34	16	0	0
29/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG11  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 19:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 20:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 21:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 14:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 19:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 20:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 21:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
Minimum	14.00	229,101	20.73	8.50	0.00	0.00
Maximum	14.62	378,890	47.13	51.84	1.78	2.06
Avg	14.19	316,941	37.85	22.86	0.01	0.11
SUM						
STD				60	6	28

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
01/12/2025 00:00	14.095	322,263	28.809	31.063	0.153	0.000
01/12/2025 01:00	14.014	327,171	30.935	32.947	0.128	1.981
01/12/2025 02:00	14.041	326,857	30.891	32.051	0.147	0.406
01/12/2025 03:00	14.038	328,335	30.619	29.886	0.012	0.000
01/12/2025 04:00	14.026	323,997	30.843	33.838	0.541	0.438
01/12/2025 05:00	13.948	325,739	31.941	32.427	0.739	0.006
01/12/2025 06:00	14.032	317,315	30.348	31.678	0.171	0.181
01/12/2025 07:00	14.030	318,826	31.063	32.960	0.699	0.587
01/12/2025 08:00	14.164	309,677	28.060	30.065	0.048	0.588
01/12/2025 09:00	14.143	328,069	29.862	31.823	0.007	0.315
01/12/2025 10:00	14.252	332,448	27.992	32.837	0.017	0.000
01/12/2025 12:00	14.210	370,051	28.801	33.043	0.031	0.000
01/12/2025 13:00	14.799	377,863	27.494	30.847	0.016	0.000
01/12/2025 14:00	14.157	458,087	38.207	30.199	0.018	0.000
01/12/2025 15:00	14.193	463,719	39.309	30.682	0.016	0.000
01/12/2025 16:00	14.198	456,095	39.035	29.191	0.015	0.000
01/12/2025 17:00	14.229	459,947	40.520	31.015	0.013	0.000
01/12/2025 18:00	14.167	449,107	40.167	33.809	0.652	0.000
01/12/2025 19:00	14.122	411,051	40.541	28.666	0.013	0.000
01/12/2025 20:00	14.037	389,647	39.376	28.993	0.014	0.000
01/12/2025 21:00	14.076	391,755	40.304	27.829	0.008	0.382
01/12/2025 22:00	13.978	381,701	39.673	29.771	0.672	0.308
01/12/2025 23:00	13.956	370,800	36.642	24.652	0.013	0.237
02/12/2025 00:00	13.907	360,064	35.154	24.517	0.022	0.025
02/12/2025 01:00	13.943	371,112	36.681	27.784	0.923	0.321
02/12/2025 02:00	13.943	366,223	36.176	24.892	0.028	0.322
02/12/2025 03:00	13.924	362,985	35.611	25.275	0.019	0.311
02/12/2025 04:00	13.896	357,225	35.074	23.964	0.030	0.868
02/12/2025 05:00	13.928	364,367	36.937	24.451	0.019	2.076
02/12/2025 06:00	13.924	368,232	37.551	24.115	0.038	0.838
02/12/2025 07:00	13.914	350,578	35.907	24.082	0.014	0.490
02/12/2025 08:00	13.952	343,746	31.624	28.281	0.023	0.914
02/12/2025 09:00	13.965	355,491	33.165	23.431	0.020	0.435
02/12/2025 10:00	14.055	356,347	30.748	25.886	0.020	0.000
02/12/2025 11:00	14.029	374,039	30.573	25.218	0.018	0.000
02/12/2025 12:00	14.191	383,803	29.207	32.335	0.016	0.271
02/12/2025 13:00	14.069	397,451	32.999	32.307	0.014	0.000
02/12/2025 14:00	14.246	470,526	43.815	36.961	0.012	0.000
02/12/2025 15:00	14.196	487,453	44.039	33.791	0.022	0.000
02/12/2025 16:00	14.184	461,495	39.303	31.535	0.063	0.000
02/12/2025 17:00	14.201	464,719	40.335	33.314	0.321	0.000
02/12/2025 18:00	14.161	450,523	39.193	31.995	0.365	0.000
02/12/2025 19:00	14.115	409,265	40.128	29.514	0.027	0.000
02/12/2025 20:00	14.092	406,821	39.855	28.107	0.013	0.000
02/12/2025 21:00	14.043	407,264	40.446	28.046	0.011	0.000
02/12/2025 22:00	14.008	400,195	39.673	27.011	0.014	0.000
02/12/2025 23:00	13.975	384,553.438	37.674	27.927	0.388	0.276
03/12/2025 00:00	13.903	364,909.094	35.852	26.007	0.010	0.000
03/12/2025 01:00	13.915	363,104.250	35.401	25.193	0.011	1.727
03/12/2025 02:00	13.949	374,321.031	37.989	25.729	0.409	0.479
03/12/2025 03:00	13.956	374,783.813	38.200	24.686	0.008	0.761
03/12/2025 04:00	13.928	359,228.313	35.987	25.040	0.180	0.911
03/12/2025 05:00	13.895	358,058.875	36.309	26.737	1.078	0.736
03/12/2025 06:00	13.935	360,704.594	36.343	23.418	0.019	0.281
03/12/2025 07:00	13.908	351,809.781	35.050	24.400	0.021	0.000
03/12/2025 08:00	13.955	356,082.688	32.202	24.079	0.023	0.000
03/12/2025 09:00	14.012	382,770.563	36.188	26.853	0.230	0.140
03/12/2025 10:00	13.949	368,572	32.847	24.067	0.011	0.103
03/12/2025 11:00	14.010	383,089	33.237	27.003	0.012	0.000
03/12/2025 12:00	14.076	380,714	31.322	20.884	0.012	0.132
03/12/2025 13:00	14.200	386,459	29.680	28.532	0.013	0.000
03/12/2025 14:00	14.183	445,268	40.413	26.518	0.013	0.000
03/12/2025 15:00	14.212	457,276	40.948	30.063	0.029	0.000
03/12/2025 16:00	14.226	454,407	40.929	30.749	0.020	0.000
03/12/2025 17:00	14.237	479,659	41.003	30.884	0.198	0.000
03/12/2025 18:00	14.170	457,288	39.900	28.848	0.022	0.000
03/12/2025 19:00	14.171	460,890	41.035	31.978	0.704	0.023
03/12/2025 20:00	14.075	433,798	40.749	27.993	0.021	0.000
03/12/2025 21:00	14.073	427,808	41.765	27.708	0.019	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11_LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
03/12/2025 22:00	14.021	415240.781	40.578	30.265	0.571	0.324
03/12/2025 23:00	13.970	390840.531	37.248	26.039	0.035	0.000
04/12/2025 00:00	13.928	382858.500	36.168	26.613	0.160	0.000
04/12/2025 01:00	13.948	382110.000	37.087	26.928	0.330	0.299
04/12/2025 02:00	13.989	385474.938	38.323	28.731	0.944	0.524
04/12/2025 03:00	13.934	375049.594	36.689	28.485	0.837	0.244
04/12/2025 04:00	13.942	363994.188	34.921	25.877	0.010	0.027
04/12/2025 05:00	14.024	374351.500	37.590	27.384	0.015	0.223
04/12/2025 06:00	13.990	357422.938	35.524	27.016	0.013	0.239
04/12/2025 07:00	13.966	352457.188	34.668	28.271	0.627	0.369
04/12/2025 08:00	14.042	341906.750	31.466	29.003	0.533	0.375
04/12/2025 09:00	13.972	356428.656	34.023	28.132	0.221	0.000
04/12/2025 10:00	13.955	348045.875	31.713	26.020	0.014	0.000
04/12/2025 11:00	13.929	363534.813	33.582	24.737	0.015	0.000
04/12/2025 12:00	14.100	363264.125	31.557	23.150	0.000	0.000
04/12/2025 13:00	14.256	354048.156	27.413	27.921	0.010	0.000
04/12/2025 14:00	14.144	405814.031	37.305	25.782	0.007	0.000
04/12/2025 15:00	14.165	412083.625	38.695	27.836	0.008	0.000
04/12/2025 16:00	14.241	426801.094	40.126	28.801	0.010	0.000
04/12/2025 17:00	14.246	423527.531	40.694	28.732	0.011	0.000
04/12/2025 18:00	14.189	410312.375	40.100	26.151	0.013	0.000
04/12/2025 19:00	14.184	405443.125	40.650	26.138	0.015	0.000
04/12/2025 20:00	14.140	396843.563	38.822	27.316	0.077	0.000
04/12/2025 21:00	14.127	393723.156	39.061	27.549	0.013	0.000
04/12/2025 22:00	14.099	397199.219	39.812	25.799	0.013	0.000
04/12/2025 23:00	14.034	377270.969	36.379	24.153	0.013	0.000
05/12/2025 00:00	13.956	365741.000	35.075	23.008	0.013	0.221
05/12/2025 01:00	14.010	369934.594	36.398	24.807	0.012	0.155
05/12/2025 02:00	14.004	368485.375	36.759	23.956	0.012	0.291
05/12/2025 03:00	13.984	361311.094	36.740	23.583	0.012	0.122
05/12/2025 04:00	13.984	357480.969	36.701	24.804	0.011	2.098
05/12/2025 05:00	13.993	360320.625	37.117	23.945	0.011	2.876
05/12/2025 06:00	14.006	353731.000	35.747	23.604	0.016	2.584
05/12/2025 07:00	13.969	346888.375	34.990	21.178	0.011	0.842
05/12/2025 08:00	14.087	332505.188	30.241	26.863	0.015	0.946
05/12/2025 09:00	14.153	340084.406	28.963	27.295	0.014	0.000
05/12/2025 10:00	14.118	358150.688	30.713	28.502	0.013	0.000
05/12/2025 11:00	14.158	359883.563	30.121	28.153	0.012	0.000
05/12/2025 12:00	14.219	362167.188	29.443	28.386	0.011	0.000
05/12/2025 13:00	14.235	352810.250	27.873	26.561	0.010	0.000
05/12/2025 14:00	14.105	360743.781	31.537	23.218	0.009	0.000
05/12/2025 15:00	14.119	360223.281	30.249	26.017	0.008	0.000
05/12/2025 16:00	14.066	373251.938	33.312	22.318	0.008	0.000
05/12/2025 17:00	14.026	360266.781	31.712	20.410	0.008	0.000
05/12/2025 18:00	14.189	349695.531	28.761	27.597	0.008	0.294
05/12/2025 19:00	14.159	405121.250	40.468	26.719	0.008	0.327
05/12/2025 20:00	14.084	394964.250	39.244	24.771	0.008	0.237
05/12/2025 21:00	14.115	410348.781	41.987	26.490	0.008	0.824
05/12/2025 22:00	13.925	349977.906	32.430	21.294	0.007	1.476
05/12/2025 23:00	13.965	346265.313	32.754	20.293	0.008	2.546
06/12/2025 00:00	14.021	336028.906	31.257	26.778	0.009	2.715
06/12/2025 01:00	14.013	333942.750	31.262	25.067	0.010	4.277
06/12/2025 02:00	13.954	328389.906	31.990	25.141	0.010	5.044
06/12/2025 03:00	13.963	333860.938	32.853	22.488	0.010	4.992
06/12/2025 04:00	14.011	328544.625	31.952	25.836	0.009	4.382
06/12/2025 05:00	13.999	322575.063	30.914	24.757	0.013	2.455
06/12/2025 06:00	13.973	333302.813	32.523	20.807	0.010	2.946
06/12/2025 07:00	14.034	324763.813	30.759	29.597	0.015	3.314
06/12/2025 08:00	14.090	323593.563	29.590	27.662	0.016	1.760
06/12/2025 09:00	14.077	341725.188	30.622	28.807	0.022	0.715
06/12/2025 10:00	14.079	350855.438	31.391	25.450	0.020	0.245
06/12/2025 11:00	14.064	363062.844	32.439	21.888	0.018	0.000
06/12/2025 12:00	14.083	368649.906	32.347	21.580	0.016	0.000
06/12/2025 13:00	14.371	356568.000	25.171	27.316	0.015	0.050
06/12/2025 14:00	14.163	419640.500	39.953	26.336	0.013	0.000
06/12/2025 15:00	14.220	406600.469	39.389	28.026	0.013	0.052
06/12/2025 16:00	14.253	428917.688	42.032	29.653	0.013	0.000
06/12/2025 17:00	14.193	455969.188	42.808	27.258	0.012	0.000
06/12/2025 18:00	14.162	446821.938	39.978	27.176	0.012	0.389
06/12/2025 19:00	14.126	434097.344	39.979	26.568	0.012	0.515

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS12_NOx@7%O2	HRS12_SOx@7%O2	HRS12_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
06/12/2025 20:00	14.098	434253.188	39.989	25.650	0.012	0.098
06/12/2025 21:00	14.079	434725.156	40.144	27.449	0.012	0.000
06/12/2025 22:00	14.012	426837.125	40.643	25.854	0.012	0.000
06/12/2025 23:00	13.904	382272.250	33.888	22.121	0.013	0.000
07/12/2025 00:00	13.900	388245.969	33.564	22.247	0.015	0.000
07/12/2025 01:00	13.941	406833.469	34.436	23.177	0.016	0.000
07/12/2025 02:00	13.907	383041.000	34.922	23.076	0.008	0.000
07/12/2025 03:00	13.886	354528.938	34.039	20.471	0.013	6.285
07/12/2025 04:00	13.896	345881.438	33.373	22.708	0.022	1.361
07/12/2025 05:00	13.873	348104.281	33.795	23.080	0.029	1.337
07/12/2025 06:00	13.921	352432.594	34.718	22.076	0.015	0.145
07/12/2025 07:00	13.895	342641.125	33.386	23.211	0.015	0.008
07/12/2025 08:00	14.108	337569.750	29.681	27.405	0.024	0.442
07/12/2025 09:00	14.048	354718.625	31.695	26.519	0.007	0.166
07/12/2025 10:00	14.157	346556.125	29.885	30.951	0.008	0.000
07/12/2025 11:00	14.241	355529.906	29.707	32.184	0.009	0.000
07/12/2025 12:00	14.222	358869.531	29.430	32.201	0.009	0.000
07/12/2025 13:00	14.226	364649.031	28.989	31.694	0.011	0.000
07/12/2025 14:00	14.219	376101.063	31.179	31.123	0.012	0.000
07/12/2025 15:00	14.160	385897.188	33.816	25.594	0.012	0.000
07/12/2025 16:00	14.084	383501.188	32.320	23.143	0.013	0.000
07/12/2025 17:00	14.074	377086.031	31.879	20.643	0.013	0.045
07/12/2025 18:00	14.346	350032.563	25.727	29.539	0.013	0.321
07/12/2025 19:00	14.100	421793.188	40.784	26.329	0.013	1.126
07/12/2025 20:00	14.051	409249.906	38.305	24.335	0.013	0.860
07/12/2025 21:00	14.062	417318.344	38.581	24.620	0.013	0.021
07/12/2025 22:00	14.127	445388.219	43.151	26.830	0.013	0.000
07/12/2025 23:00	14.105	421439.719	43.151	26.199	0.012	0.371
08/12/2025 00:00	14.089	412026.438	43.214	27.306	0.012	1.207
08/12/2025 01:00	14.087	404740.781	43.199	27.121	0.020	3.043
08/12/2025 02:00	14.084	399265.375	42.987	25.345	0.020	1.357
08/12/2025 03:00	14.088	399101.000	43.021	29.207	0.037	0.000
08/12/2025 04:00	14.118	394335.969	42.949	29.210	0.014	0.000
08/12/2025 05:00	14.118	399011.500	43.168	29.446	0.021	0.000
08/12/2025 06:00	14.121	395883.688	42.982	31.107	0.077	0.000
08/12/2025 07:00	14.131	394962.563	43.062	30.837	0.011	0.026
08/12/2025 08:00	14.157	395400.844	42.800	31.052	0.015	0.098
08/12/2025 09:00	14.209	402406.813	42.881	31.232	0.010	0.000
08/12/2025 10:00	14.225	403100.188	42.879	31.759	0.011	0.000
08/12/2025 11:00	14.241	407089.250	42.934	31.761	0.011	0.000
08/12/2025 12:00	14.321	416782.094	42.898	32.551	0.012	0.000
08/12/2025 13:00	14.129	368708.531	36.086	30.430	0.012	0.000
08/12/2025 14:00	14.210	388386.563	38.198	28.079	0.012	0.000
08/12/2025 15:00	14.231	396547.469	38.703	29.938	0.013	0.000
08/12/2025 16:00	14.222	395662.125	38.570	30.225	0.011	0.000
08/12/2025 17:00	14.279	412026.938	41.644	31.358	0.010	0.000
08/12/2025 18:00	14.267	414956.406	42.183	32.438	0.008	0.000
08/12/2025 19:00	14.230	410499.125	42.026	32.028	0.007	0.000
08/12/2025 20:00	14.180	395240.438	40.653	31.806	0.005	0.000
08/12/2025 21:00	14.164	398394.500	41.071	30.946	0.004	0.000
08/12/2025 22:00	14.141	323613.250	26.655	31.668	0.017	0.000
08/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
09/12/2025 14:00	14.209	414415.906	39.859	38.807	2.566	0.000
09/12/2025 15:00	14.255	407756.094	39.230	41.438	2.442	0.000
09/12/2025 16:00	14.257	433331.813	42.848	43.405	2.517	0.000
09/12/2025 17:00	14.230	411760.250	40.497	40.717	2.337	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS12_NOx@7%O2	HRS12_SOx@7%O2	HRS12_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
09/12/2025 18:00	14.204	408035.594	40.049	40.387	2.506	0.000
09/12/2025 19:00	14.144	388585.375	39.393	39.891	2.652	0.000
09/12/2025 20:00	14.120	396080.938	40.013	38.607	2.329	0.000
09/12/2025 21:00	14.113	387998.781	40.135	40.304	2.620	0.000
09/12/2025 22:00	14.156	320662.188	26.285	32.004	0.111	0.000
09/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
10/12/2025 14:00	14.176	423575.438	40.430	36.825	2.026	0.000
10/12/2025 15:00	14.235	431762.500	42.683	39.398	1.653	0.000
10/12/2025 16:00	14.232	413897.719	41.485	40.237	2.439	0.000
10/12/2025 17:00	14.210	423266.844	43.384	41.614	2.629	0.000
10/12/2025 18:00	14.176	410980.875	42.327	38.455	2.070	0.000
10/12/2025 19:00	14.175	405956.969	42.168	39.047	2.298	0.000
10/12/2025 20:00	14.114	397977.688	41.266	38.224	2.510	0.000
10/12/2025 21:00	14.169	428683.125	46.331	35.438	0.065	0.263
10/12/2025 22:00	14.182	421018.063	46.465	36.335	0.013	0.285
10/12/2025 23:00	14.144	402175.000	43.056	30.340	0.013	0.438
11/12/2025 00:00	14.140	400912.125	42.990	30.646	0.019	0.562
11/12/2025 01:00	14.135	404129.063	42.977	30.131	0.012	0.405
11/12/2025 02:00	14.131	400304.531	43.013	30.457	0.059	0.536
11/12/2025 03:00	14.126	397964.906	42.930	30.339	0.048	0.502
11/12/2025 04:00	14.122	397610.063	43.028	30.275	0.088	0.329
11/12/2025 05:00	14.118	391247.094	43.057	28.438	0.013	1.343
11/12/2025 06:00	14.113	392666.625	43.138	29.492	0.020	4.526
11/12/2025 07:00	14.106	388261.219	43.084	28.780	0.015	7.793
11/12/2025 08:00	14.099	391631.688	42.987	27.711	0.012	4.517
11/12/2025 09:00	14.104	390849.438	43.022	29.558	0.014	2.708
11/12/2025 10:00	14.116	394499.125	43.096	28.774	0.014	2.523
11/12/2025 11:00	14.129	402842.375	43.026	28.444	0.011	1.266
11/12/2025 12:00	14.141	410608.156	43.078	30.507	0.128	0.516
11/12/2025 13:00	14.087	388254.156	39.307	27.130	0.011	0.780
11/12/2025 14:00	14.071	391996.500	39.174	25.572	0.009	0.480
11/12/2025 15:00	14.111	399086.563	39.773	27.196	0.010	0.519
11/12/2025 16:00	14.123	405078.500	39.809	26.437	0.015	0.442
11/12/2025 17:00	14.114	405656.719	40.275	27.649	0.122	0.454
11/12/2025 18:00	14.147	411613.781	41.555	27.128	0.012	0.759
11/12/2025 19:00	14.131	396952.156	40.543	26.305	0.022	1.280
11/12/2025 20:00	14.067	391252.938	40.761	27.081	0.075	2.029
11/12/2025 21:00	13.983	358711.063	36.157	25.331	0.015	2.287
11/12/2025 22:00	14.434	306072.750	21.393	32.143	0.022	2.508
11/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
12/12/2025 14:00	14.131	427501.000	40.383	35.018	2.983	0.465
12/12/2025 15:00	14.135	432,714	40.471	36.270	2.767	0.119

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
12/12/2025 16:00	14.120	463,861	41.556	35.940	2.802	0.000
12/12/2025 17:00	14.105	427,908	39.990	34.702	2.355	0.000
12/12/2025 18:00	14.109	449,182	41.219	35.981	2.940	0.904
12/12/2025 19:00	14.078	407,402	40.868	33.353	2.150	0.231
12/12/2025 20:00	14.083	384,375	39.722	26.908	0.352	2.444
12/12/2025 21:00	14.057	390,946	40.089	25.918	0.022	2.866
12/12/2025 22:00	14.557	300,261	18.724	41.114	0.025	3.992
12/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
13/12/2025 14:00	14.129	424,633	39.007	34.605	2.536	0.000
13/12/2025 15:00	14.154	418,227	37.611	36.290	2.390	0.000
13/12/2025 16:00	14.202	430,644	40.540	37.703	2.392	0.000
13/12/2025 17:00	14.172	419,407	38.414	37.273	2.472	0.000
13/12/2025 18:00	14.198	423,819	40.323	37.631	2.501	0.000
13/12/2025 19:00	14.167	426,903	40.899	37.499	2.504	0.000
13/12/2025 20:00	14.117	435,187	39.959	36.587	2.894	0.000
13/12/2025 21:00	14.059	447,497	39.716	36.008	2.513	0.000
13/12/2025 22:00	14.094	477,931	46.216	31.970	0.146	0.000
13/12/2025 23:00	14.124	436091.031	43.245	28.751	0.227	0.000
14/12/2025 00:00	14.127	419451.844	43.156	29.013	0.257	1.661
14/12/2025 01:00	14.115	414906.813	43.258	28.141	0.255	2.815
14/12/2025 02:00	14.104	408320.938	43.265	28.040	0.214	5.572
14/12/2025 03:00	14.092	404708.813	43.226	27.193	0.149	6.447
14/12/2025 04:00	14.091	406306.625	43.394	27.424	0.283	6.686
14/12/2025 05:00	14.094	398718.313	43.173	27.057	0.255	9.953
14/12/2025 06:00	14.097	396939.563	43.122	27.598	0.366	11.037
14/12/2025 07:00	14.100	399699.531	43.195	28.020	0.425	9.338
14/12/2025 08:00	14.111	405712.469	43.096	27.565	0.111	3.181
14/12/2025 09:00	14.156	410052.313	43.100	28.156	0.036	1.447
14/12/2025 10:00	14.194	423680.563	43.395	29.391	0.038	0.905
14/12/2025 11:00	14.204	426613.219	43.104	30.315	0.013	0.692
14/12/2025 12:00	14.226	434642.063	43.043	30.070	0.013	0.329
14/12/2025 13:00	14.223	439247.031	43.294	29.373	0.012	0.148
14/12/2025 14:00	14.231	438140.938	43.066	29.932	0.012	0.060
14/12/2025 15:00	14.250	440025.719	43.033	30.648	0.014	0.017
14/12/2025 16:00	14.234	437928.781	43.091	30.792	0.012	0.000
14/12/2025 17:00	14.233	444027.063	43.493	29.654	0.011	0.000
14/12/2025 18:00	14.169	441829.750	45.203	31.900	0.022	0.572
14/12/2025 19:00	14.148	398,808	39.555	26.863	0.149	0.715
14/12/2025 20:00	14.057	388,674	38.849	25.774	0.019	1.109
14/12/2025 21:00	14.106	394,167	39.448	26.853	0.024	1.199
14/12/2025 22:00	13.926	355,568	33.495	22.858	0.017	1.168
14/12/2025 23:00	13.981	345951.375	32.377	23.058	0.028	1.513
15/12/2025 00:00	14.005	344450.938	32.239	22.330	0.010	2.173
15/12/2025 01:00	13.941	345597.875	33.625	22.582	0.025	2.460
15/12/2025 02:00	13.923	345503.219	33.767	22.984	0.020	2.033
15/12/2025 03:00	13.970	346555.313	34.118	22.381	0.026	1.769
15/12/2025 04:00	13.949	339837.531	32.919	24.062	0.010	1.469
15/12/2025 05:00	13.948	344488.031	33.844	24.513	0.217	1.068
15/12/2025 06:00	13.962	335685.969	32.491	23.253	0.204	1.563
15/12/2025 07:00	13.973	343726.094	34.415	23.868	0.293	1.635
15/12/2025 08:00	14.019	333148.469	31.396	19.157	0.009	1.189
15/12/2025 09:00	14.008	349649.438	32.425	22.564	0.022	0.703
15/12/2025 10:00	14.090	347,742	31.222	28.804	0.012	0.584
15/12/2025 11:00	14.111	353,546	30.272	28.484	0.012	0.145
15/12/2025 12:00	14.149	356,196	29.698	30.009	0.013	0.232
15/12/2025 13:00	14.232	360,212	28.285	28.616	0.014	0.005

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
15/12/2025 14:00	14.078	409,767	37.620	24.858	0.014	0.186
15/12/2025 15:00	14.190	423,649	39.390	27.573	0.014	0.000
15/12/2025 16:00	14.261	437,573	41.140	29.428	0.014	0.000
15/12/2025 17:00	14.249	432,971	40.889	29.437	0.014	0.000
15/12/2025 18:00	14.202	448,500	40.558	28.947	0.014	0.000
15/12/2025 19:00	14.150	436,049	40.177	26.221	0.016	0.000
15/12/2025 20:00	14.122	425,932	39.186	26.702	0.016	0.363
15/12/2025 21:00	14.093	450,430	41.775	26.542	0.016	0.000
15/12/2025 22:00	14.014	424,794	40.402	24.782	0.012	0.000
15/12/2025 23:00	13.974	379,361	36.557	22.612	0.019	0.000
16/12/2025 00:00	13.948	366,455	35.217	23.412	0.011	0.408
16/12/2025 01:00	13.985	362,154	36.378	24.115	0.014	0.975
16/12/2025 02:00	13.969	354,690	36.487	24.736	0.021	1.531
16/12/2025 03:00	13.971	353,433	35.852	23.569	0.024	1.154
16/12/2025 04:00	14.001	362,068	36.653	23.663	0.026	1.001
16/12/2025 05:00	14.017	362,237	36.436	23.558	0.024	0.908
16/12/2025 06:00	14.006	354,381	36.361	24.865	0.154	0.852
16/12/2025 07:00	13.964	347,041	35.306	23.480	0.023	1.063
16/12/2025 08:00	13.983	339,329	32.463	22.390	0.024	1.404
16/12/2025 09:00	13.962	353,432	33.225	22.922	0.030	0.469
16/12/2025 10:00	14.103	352,825	31.031	24.172	0.017	0.121
16/12/2025 11:00	14.082	362,504	31.589	23.089	0.009	0.000
16/12/2025 12:00	14.129	366,598	30.859	24.664	0.008	0.003
16/12/2025 13:00	14.261	370,097	28.582	29.882	0.007	0.000
16/12/2025 14:00	14.172	423,766	38.814	26.116	0.006	0.000
16/12/2025 15:00	14.270	434,856	40.428	28.571	0.018	0.162
16/12/2025 16:00	14.198	443,363	39.838	26.992	0.016	0.000
16/12/2025 17:00	14.222	471,751	41.688	28.364	0.014	0.000
16/12/2025 18:00	14.226	458,415	41.374	28.165	0.012	0.000
16/12/2025 19:00	14.189	446,983	40.545	28.166	0.010	0.000
16/12/2025 20:00	14.158	436,845	40.088	27.077	0.013	0.000
16/12/2025 21:00	14.098	440,083	39.880	25.904	0.025	0.000
16/12/2025 22:00	14.045	449,928	40.533	26.988	0.031	0.000
16/12/2025 23:00	13.968	404245.156	37.759	24.081	0.020	0.000
17/12/2025 00:00	13.945	366913.563	35.605	23.597	0.018	0.565
17/12/2025 01:00	13.931	368222.906	35.871	22.955	0.008	0.781
17/12/2025 02:00	13.931	362237.250	34.980	23.235	0.038	1.166
17/12/2025 03:00	13.905	355749.469	35.118	24.154	0.092	1.100
17/12/2025 04:00	13.937	354011.563	35.507	23.460	0.016	1.723
17/12/2025 05:00	13.942	359875.906	36.492	23.240	0.020	2.082
17/12/2025 06:00	13.973	361259.781	36.117	24.577	0.179	1.799
17/12/2025 07:00	13.982	364720.281	36.588	24.019	0.159	1.616
17/12/2025 08:00	13.985	342279.656	32.599	21.594	0.021	2.162
17/12/2025 09:00	14.002	375309.125	35.777	22.892	0.013	0.920
17/12/2025 10:00	14.001	362,425	32.746	22.627	0.015	0.000
17/12/2025 11:00	14.071	365,249	30.501	22.371	0.015	0.000
17/12/2025 12:00	14.072	381,244	33.138	22.061	0.014	0.000
17/12/2025 13:00	14.288	364,179	27.778	29.269	0.014	0.000
17/12/2025 14:00	14.191	426,612	40.461	26.654	0.014	0.000
17/12/2025 15:00	14.216	433,436	40.588	29.144	0.008	0.000
17/12/2025 16:00	14.300	440,779	42.110	31.394	0.011	0.000
17/12/2025 17:00	14.245	430,309	41.090	29.764	0.014	0.000
17/12/2025 18:00	14.205	421,342	40.386	28.897	0.017	0.000
17/12/2025 19:00	14.222	421,176	41.156	29.542	0.020	0.000
17/12/2025 20:00	14.189	416,814	40.720	26.852	0.023	0.000
17/12/2025 21:00	14.151	417,886	41.817	28.097	0.027	0.069
17/12/2025 22:00	14.119	398,114	39.750	25.845	0.021	0.395
17/12/2025 23:00	14.011	371,220	36.084	25.201	0.077	0.331
18/12/2025 00:00	13.953	362,019	34.265	24.567	0.022	0.460
18/12/2025 01:00	13.976	368,608	36.067	24.317	0.009	0.617
18/12/2025 02:00	14.007	371,911	36.679	23.492	0.018	0.820
18/12/2025 03:00	13.990	361,565	35.549	23.851	0.018	0.916
18/12/2025 04:00	13.955	360,690	35.925	23.209	0.023	1.190
18/12/2025 05:00	13.972	358,483	35.457	22.519	0.012	1.448
18/12/2025 06:00	14.001	357,801	36.034	23.285	0.015	1.342
18/12/2025 07:00	13.984	350,433	34.826	23.573	0.018	1.476
18/12/2025 08:00	13.957	345,784	33.155	22.480	0.018	0.922
18/12/2025 09:00	13.954	354,011	32.684	21.824	0.005	0.718
18/12/2025 10:00	14.031	358,648	32.421	21.569	0.005	0.380
18/12/2025 11:00	14.033	361,358	31.868	22.544	0.006	0.000

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
18/12/2025 12:00	14.056	374,338	32.467	21.270	0.006	0.000
18/12/2025 13:00	14.192	365,436	28.848	27.649	0.007	0.050
18/12/2025 14:00	14.137	421,225	39.779	24.753	0.007	0.022
18/12/2025 15:00	14.162	420,248	39.463	26.763	0.015	0.000
18/12/2025 16:00	14.246	438,043	42.720	29.047	0.016	0.000
18/12/2025 17:00	14.219	449,134	42.194	26.882	0.017	0.086
18/12/2025 18:00	14.129	451,000	39.817	25.550	0.018	0.000
18/12/2025 19:00	14.147	459,521	41.666	26.243	0.011	0.405
18/12/2025 20:00	14.082	434,903	39.948	26.411	0.011	0.000
18/12/2025 21:00	14.122	439,515	41.348	27.017	0.016	0.000
18/12/2025 22:00	14.102	421,661	41.129	26.368	0.020	0.000
18/12/2025 23:00	13.997	381,662	37.330	24.048	0.016	0.465
19/12/2025 00:00	13.939	359,265	34.973	24.763	0.112	0.692
19/12/2025 01:00	13.945	350,894	34.577	24.374	0.070	1.125
19/12/2025 02:00	13.999	364,770	37.003	25.593	0.154	0.950
19/12/2025 03:00	13.972	366,273	36.899	24.196	0.028	0.743
19/12/2025 04:00	13.945	359,243	35.547	23.465	0.020	0.463
19/12/2025 05:00	13.978	357,165	35.355	24.584	0.064	0.730
19/12/2025 06:00	13.998	353,918	36.064	25.833	0.206	1.052
19/12/2025 07:00	14.009	354,721	35.773	25.155	0.015	0.936
19/12/2025 08:00	13.953	343,745	33.019	22.448	0.016	1.464
19/12/2025 09:00	13.997	359,427	32.830	24.043	0.016	0.549
19/12/2025 10:00	14.143	352,469	30.552	31.034	0.012	0.000
19/12/2025 11:00	14.185	358,585	28.696	30.773	0.012	0.017
19/12/2025 12:00	14.282	360,869	27.688	30.995	0.012	0.000
19/12/2025 13:00	14.283	363,044	25.406	31.700	0.013	0.000
19/12/2025 14:00	14.163	417,893	37.103	25.318	0.013	0.000
19/12/2025 15:00	14.190	423,637	37.337	27.818	0.013	0.000
19/12/2025 16:00	14.149	428,395	37.709	26.353	0.013	0.000
19/12/2025 17:00	14.133	451,036	38.676	25.053	0.013	0.000
19/12/2025 18:00	14.113	433,946	37.783	27.196	0.013	0.000
19/12/2025 19:00	14.128	442,660	38.469	26.431	0.018	0.093
19/12/2025 20:00	14.043	408,045	37.163	25.410	0.014	0.000
19/12/2025 21:00	14.066	382,899	37.003	24.680	0.023	0.000
19/12/2025 22:00	13.987	380,690	37.173	25.580	0.014	0.497
19/12/2025 23:00	13.969	359543.625	34.788	23.567	0.074	0.407
20/12/2025 00:00	13.948	344922.313	31.870	24.254	0.048	0.590
20/12/2025 01:00	13.955	348857.469	33.331	23.890	0.125	0.837
20/12/2025 02:00	13.944	354450.250	34.560	23.476	0.101	0.736
20/12/2025 03:00	13.924	339388.313	32.330	23.136	0.015	1.535
20/12/2025 04:00	13.928	336435.031	32.483	21.781	0.019	1.055
20/12/2025 05:00	13.944	340922.188	32.393	23.514	0.238	0.759
20/12/2025 06:00	13.946	339595.188	33.770	23.337	0.036	0.716
20/12/2025 07:00	13.995	335014.656	31.715	23.339	0.033	0.755
20/12/2025 08:00	14.148	323925.281	28.697	28.847	0.030	0.897
20/12/2025 09:00	14.063	336193.469	32.040	24.554	0.020	0.296
20/12/2025 10:00	14.042	372,132	33.568	24.461	0.023	0.099
20/12/2025 11:00	14.093	370,311	31.495	25.647	0.020	0.000
20/12/2025 12:00	14.205	378,594	29.343	29.635	0.017	0.491
20/12/2025 13:00	14.251	382,154	29.210	32.015	0.014	0.434
20/12/2025 14:00	14.203	427,489	38.167	27.884	0.025	0.000
20/12/2025 15:00	14.336	443,105	40.704	31.014	0.006	0.000
20/12/2025 16:00	14.350	452,814	41.258	32.953	0.007	0.205
20/12/2025 17:00	14.245	465,959	41.617	27.157	0.008	0.000
20/12/2025 18:00	14.215	468,083	41.630	29.301	0.009	0.000
20/12/2025 19:00	14.220	467,607	42.725	29.586	0.010	0.088
20/12/2025 20:00	14.100	444,116	39.983	27.406	0.011	0.000
20/12/2025 21:00	14.134	427,068	42.314	28.393	0.012	0.000
20/12/2025 22:00	14.123	420,790	42.399	29.282	0.010	0.000
20/12/2025 23:00	14.033	390,737	37.464	27.211	0.014	0.000
21/12/2025 00:00	13.990	374,413	34.876	26.111	0.027	0.000
21/12/2025 01:00	14.009	369,240	35.822	26.387	0.135	0.000
21/12/2025 02:00	14.009	374,752	37.644	26.920	0.021	0.000
21/12/2025 03:00	14.005	372,523	36.725	25.683	0.013	0.000
21/12/2025 04:00	13.998	351,095	33.398	26.136	0.198	0.000
21/12/2025 05:00	14.029	358,962	34.245	25.938	0.010	0.000
21/12/2025 06:00	14.026	356,011	35.402	25.964	0.198	0.000
21/12/2025 07:00	14.001	341,774	33.857	24.899	0.008	0.113
21/12/2025 08:00	14.119	329,406	30.398	33.063	0.097	0.162
21/12/2025 09:00	14.070	350,586	32.388	27.472	0.051	0.001

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
21/12/2025 10:00	14.199	354,873	31.632	32.809	0.016	0.034
21/12/2025 11:00	14.197	364,360	30.242	33.105	0.004	0.000
21/12/2025 12:00	14.302	370,545	29.122	35.041	0.005	0.000
21/12/2025 13:00	14.174	381,880	30.544	30.413	0.007	0.000
21/12/2025 14:00	14.233	389,405	30.276	27.469	0.009	0.000
21/12/2025 15:00	14.200	403,062	32.448	27.197	0.009	0.000
21/12/2025 16:00	14.217	402,131	31.118	26.046	0.011	0.000
21/12/2025 17:00	14.109	414,279	32.259	26.376	0.012	0.000
21/12/2025 18:00	14.410	388,433	25.378	30.168	0.014	0.000
21/12/2025 19:00	14.233	447,392	40.861	28.639	0.011	0.000
21/12/2025 20:00	14.146	436,598	38.384	30.077	0.085	0.000
21/12/2025 21:00	14.133	446,921	38.535	29.288	0.020	0.000
21/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
21/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
22/12/2025 14:00	14.093	420,213	37.927	34.699	2.519	0.000
22/12/2025 15:00	14.215	446,411	40.910	39.896	2.522	0.000
22/12/2025 16:00	14.164	459,025	39.383	36.814	2.570	0.411
22/12/2025 17:00	14.115	469,056	40.409	37.078	2.597	0.000
22/12/2025 18:00	14.119	457,940	40.617	36.321	2.726	0.000
22/12/2025 19:00	14.122	441,342	39.135	35.608	2.500	0.000
22/12/2025 20:00	14.020	434,844	38.589	35.447	2.898	0.000
22/12/2025 21:00	14.100	426,888	40.920	25.872	0.018	0.000
22/12/2025 22:00	13.864	363,752	30.135	25.678	0.085	0.000
22/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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23/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
23/12/2025 14:00	14.163	440,050	38.589	36.324	2.771	0.000
23/12/2025 15:00	14.120	463,375	37.117	35.678	2.656	0.000
23/12/2025 16:00	14.121	466,891	38.567	36.726	2.621	0.000
23/12/2025 17:00	14.137	462,264	39.406	36.943	2.728	0.000
23/12/2025 18:00	14.117	450,463	38.694	36.367	2.431	0.000
23/12/2025 19:00	14.085	423,752	38.376	36.458	2.828	0.000
23/12/2025 20:00	14.068	412,014	37.656	35.414	2.813	0.160
23/12/2025 21:00	14.083	421,475	38.865	25.194	0.017	0.000
23/12/2025 22:00	14.134	456,169	46.543	28.097	0.033	0.000
23/12/2025 23:00	14.144	430,607	43.158	28.836	0.140	0.000
24/12/2025 00:00	14.128	422,967	43.012	29.165	0.290	0.239
24/12/2025 01:00	14.111	420,210	43.236	27.938	0.167	0.000
24/12/2025 02:00	14.095	416,095	43.057	27.864	0.077	0.187
24/12/2025 03:00	14.079	416,898	43.191	27.438	0.014	0.340
24/12/2025 04:00	14.067	409,668	43.152	27.993	0.350	1.714
24/12/2025 05:00	14.054	409,324	43.189	27.692	0.417	2.465
24/12/2025 06:00	14.054	405,857	42.991	26.603	0.149	1.

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS G11_NOx@7%O2	HRS G11_SOx@7%O2	HRS G11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
24/12/2025 08:00	14.113	411,262	43.123	26.771	0.029	1.904
24/12/2025 09:00	14.143	420,476	43.091	28.763	0.363	0.997
24/12/2025 10:00	14.226	434,027	43.085	29.861	0.024	0.140
24/12/2025 11:00	14.274	442,189	43.009	31.110	0.022	0.016
24/12/2025 12:00	14.278	453,540	42.974	31.457	0.019	0.000
24/12/2025 13:00	14.206	437,969	40.166	27.174	0.016	0.000
24/12/2025 14:00	14.236	438,599	38.367	26.853	0.013	0.000
24/12/2025 15:00	14.135	439,197	37.505	26.110	0.014	0.000
24/12/2025 16:00	14.169	464,359	38.742	26.585	0.012	0.174
24/12/2025 17:00	14.156	473,705	39.097	26.874	0.009	0.000
24/12/2025 18:00	14.140	459,656	38.740	25.838	0.016	0.000
24/12/2025 19:00	14.101	457,452	40.257	33.229	1.879	0.086
24/12/2025 20:00	14.097	448,799	37.468	25.555	0.025	0.000
24/12/2025 21:00	14.081	424,098	38.906	24.629	0.009	0.000
24/12/2025 22:00	13.902	361,099	30.591	25.150	0.011	0.112
24/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
25/12/2025 14:00	14.095	416,486	35.502	35.780	2.702	0.000
25/12/2025 15:00	14.138	413,302	34.941	37.125	2.489	0.000
25/12/2025 16:00	14.161	415,928	35.393	37.268	2.387	0.000
25/12/2025 17:00	14.070	427,270	36.170	35.169	2.551	0.000
25/12/2025 18:00	14.094	430,507	36.951	35.380	2.395	0.000
25/12/2025 19:00	14.082	440,875	37.959	36.290	2.971	0.000
25/12/2025 20:00	13.976	422,153	35.430	33.342	2.521	0.000
25/12/2025 21:00	14.014	418,101	37.096	35.120	2.843	0.000
25/12/2025 22:00	13.941	391,434	34.992	24.593	0.024	0.000
25/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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26/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 12:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
26/12/2025 14:00	14.030	411,226	36.742	33.563	2.694	0.000
26/12/2025 15:00	14.050	420,811	35.990	33.960	2.738	0.000
26/12/2025 16:00	14.035	403,923	36.798	33.737	2.637	0.000
26/12/2025 17:00	13.984	385,677	34.967	33.663	2.895	0.000
26/12/2025 18:00	13.924	412,008	35.182	33.001	2.610	0.215
26/12/2025 19:00	13.999	408,461	35.425	24.327	0.306	0.000
26/12/2025 20:00	13.956	403,786	35.175	23.269	0.108	0.000
26/12/2025 21:00	13.985	387,598	36.902	23.030	0.252	0.000
26/12/2025 22:00	13.982	381,894	37.101	24.601	0.141	0.452
26/12/2025 23:00	14.073	337,794	28.572	26.222	0.011	0.468
27/12/2025 00:00	14.217	328,121	26.589	26.138	0.414	0.451
27/12/2025 01:00	14.251	324,688	26.434	26.935	0.303	0.667
27/12/2025 02:00	14.194	322,872	26.914	26.725	0.381	0.798
27/12/2025 03:00	14.235	318,525	26.804	28.519	0.385	0.832
27/12/2025 04:00	14.155	313,897	27.191	24.915	0.091	1.256
27/12/2025 05:00	14.225	308,002	26.007	33.000	0.378	1.380

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRS G12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRS G11_NOx@7%O2	HRS G11_SOx@7%O2	HRS G11_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
27/12/2025 06:00	14.224	307,539	25.874	31.827	0.430	1.093
27/12/2025 07:00	14.161	315,482	26.807	25.314	0.025	1.155
27/12/2025 08:00	14.332	315,562	24.738	39.949	0.144	0.822
27/12/2025 09:00	14.337	328,221	24.433	38.840	0.195	0.308
27/12/2025 10:00	14.432	330,636	23.251	44.308	0.017	0.163
27/12/2025 11:00	14.461	338,578	22.556	45.373	0.008	0.000
27/12/2025 12:00	14.506	346,167	22.744	44.704	0.013	0.141
27/12/2025 13:00	14.544	351,229	21.673	45.269	0.012	0.000
27/12/2025 14:00	14.346	366,992	25.213	25.896	0.012	0.000
27/12/2025 15:00	14.331	374,539	25.952	27.427	0.013	0.000
27/12/2025 16:00	14.374	372,131	24.796	26.216	0.014	0.000
27/12/2025 17:00	14.367	390,425	24.811	24.551	0.015	0.000
27/12/2025 18:00	14.496	376,787	22.139	42.543	0.023	0.182
27/12/2025 19:00	14.005	414,414	35.015	21.560	0.018	0.000
27/12/2025 20:00	14.053	397,595	36.272	24.997	0.016	0.000
27/12/2025 21:00	14.056	381,045	35.334	23.653	0.019	0.000
27/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
27/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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28/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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28/12/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 16:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 19:00	13.983	377,423	34.278	33.830	2.818	0.000
28/12/2025 20:00	13.990	371,475	33.756	35.199	3.175	0.000
28/12/2025 21:00	14.011	372,567	34.855	35.113	2.920	0.000
28/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
28/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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29/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
29/12/2025 19:00	13.955	379,607	32.385	31.819	2.527	0.000
29/12/2025 20:00	13.968	387,629	31.984	32.541	3.060	0.000
29/12/2025 21:00	13.993	383,823	33.667	23.412	0.288	0.000
29/12/2025 22:00	14.113	437,686	43.492	28.990	0.168	0.000
29/12/2025 23:00	13.843	355,117.406	31.187	26.601	0.212	0.000
30/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown

Site Name:  
Stack Name:  
Periodically:

GNLL2  
HRSRG12  
1/Dec/25 00:00 - 31/Dec/25 23:59

Date & Time	Actual Operation Condition			Emission Concentration for Standardization Comparison		
	O2	FLOW @1 ATM	GTG11 LOAD	HRSRG1_NOx@7%O2	HRSRG1_SOx@7%O2	HRSRG1_Dust (7%O2)
	%	m3/hr	MW	ppm	ppm	mg/m3
30/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 09:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 10:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 11:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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30/12/2025 13:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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30/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 19:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 20:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 21:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
30/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 00:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 01:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 02:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 03:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 04:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 05:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 06:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 07:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 08:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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31/12/2025 15:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
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31/12/2025 17:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 18:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 19:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 20:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 21:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 22:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
31/12/2025 23:00	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown	Shutdown
Minimum	13.84	300.261	18.72	0.00	0.00	0.00
Maximum	14.56	487.453	46.54	45.37	3.17	11.04
Avg	14.07	390.675	30.52	28.27	0.36	0.57
SUM						
STD				60	6	38

## ภาคผนวก ค-3

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ผลการตรวจสอบความถูกต้องของ CEMS

ประจำปี พ.ศ. 2568



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546216  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3307569-1

Page 1 of 4

Sample Number : 2546216-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 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	06 Nov 25	11:30	11:50	9.70	8.80	19.80	17.74	-2.05
2*	06 Nov 25	11:51	12:11	9.59	8.50	19.64	17.16	-2.48
3*	06 Nov 25	12:12	12:32	9.55	8.30	19.55	16.78	-2.77
4	06 Nov 25	12:33	12:53	9.51	8.41	19.39	16.95	-2.44
5	06 Nov 25	12:54	13:14	9.89	8.90	20.27	17.97	-2.30
6	06 Nov 25	13:15	13:35	16.77	15.89	35.19	32.80	-2.39
7	06 Nov 25	13:36	13:56	11.24	10.68	23.21	21.84	-1.37
8	06 Nov 25	13:57	14:17	10.83	10.10	22.49	20.68	-1.82
9	06 Nov 25	14:18	14:38	10.78	10.29	22.50	21.10	-1.40
10	06 Nov 25	14:39	14:59	10.84	10.34	22.58	21.20	-1.38
11	06 Nov 25	15:00	15:20	10.90	10.26	22.65	21.05	-1.61
12*	06 Nov 25	15:21	15:41	11.72	10.15	24.37	20.81	-3.56
Average						23.12	21.26	-1.86
Confidence Coefficient (CC)								0.34
Relative Accuracy (Compared with Emission Standard : 60 ppm) (%)								3.67
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 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 60 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546216  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3307569-1

Page 2 of 4

Sample Number : 2546216-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 11  
Parameter : SO2

### 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*	06 Nov 25	11:30	11:50	0.00	0.19	0.00	0.38	0.38
2*	06 Nov 25	11:51	12:11	0.00	0.19	0.00	0.37	0.37
3*	06 Nov 25	12:12	12:32	0.00	0.20	0.00	0.41	0.41
4	06 Nov 25	12:33	12:53	0.00	0.14	0.00	0.29	0.29
5	06 Nov 25	12:54	13:14	0.00	0.10	0.00	0.19	0.19
6	06 Nov 25	13:15	13:35	0.00	0.15	0.00	0.31	0.31
7	06 Nov 25	13:36	13:56	0.00	0.14	0.00	0.29	0.29
8	06 Nov 25	13:57	14:17	0.00	0.11	0.00	0.23	0.23
9	06 Nov 25	14:18	14:38	0.00	0.09	0.00	0.19	0.19
10	06 Nov 25	14:39	14:59	0.00	0.06	0.00	0.12	0.12
11	06 Nov 25	15:00	15:20	0.00	0.04	0.01	0.07	0.06
12	06 Nov 25	15:21	15:41	0.02	0.05	0.04	0.11	0.07
Average						0.01	0.20	0.20
Confidence Coefficient (CC)								0.07
Relative Accuracy (Compared with Emission Standard : 6 ppm) (%)								4.46
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

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

<sup>1/</sup> Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 6 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546216  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3307569-1

Page 4 of 4

Sample Number : 2546216-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 11  
Parameter : O2

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	06 Nov 25	11:30	11:50	14.09	14.01	-0.09
2	06 Nov 25	11:51	12:11	14.11	14.01	-0.10
3	06 Nov 25	12:12	12:32	14.11	14.02	-0.09
4	06 Nov 25	12:33	12:53	14.09	14.00	-0.08
5	06 Nov 25	12:54	13:14	14.12	14.02	-0.10
6*	06 Nov 25	13:15	13:35	14.27	14.17	-0.11
7	06 Nov 25	13:36	13:56	14.17	14.10	-0.06
8	06 Nov 25	13:57	14:17	14.21	14.11	-0.10
9*	06 Nov 25	14:18	14:38	14.24	14.12	-0.12
10*	06 Nov 25	14:39	14:59	14.23	14.12	-0.11
11	06 Nov 25	15:00	15:20	14.21	14.12	-0.09
12	06 Nov 25	15:21	15:41	14.21	14.12	-0.09
Average				14.15	14.06	-0.09
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.09
Relative Accuracy Criteria (%)						≤ 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 : Naratip Thueakchaikam

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ 2-204-ก-0006

Approved by

Sarayuth Jittrantorn  
Assistant General Manager  
ทะเบียนเลขที่ 2-204-ก-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O :  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546354  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3446977-1

Page 1 of 2

Sample Number : 2546354-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 11  
Parameter : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Flowrate Data		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1	06 Nov 25	11:30	11:50	284,109	297,601	13,492
2	06 Nov 25	11:51	12:11	278,877	297,213	18,336
3*	06 Nov 25	12:12	12:32	275,762	294,402	18,640
4	06 Nov 25	12:33	12:53	278,728	294,353	15,625
5*	06 Nov 25	12:54	13:14	274,555	297,275	22,720
6	06 Nov 25	13:15	13:35	264,842	281,739	16,897
7*	06 Nov 25	13:36	13:56	351,374	298,089	-53,285
8	06 Nov 25	13:57	14:17	342,500	352,940	10,440
9	06 Nov 25	14:18	14:38	344,492	353,801	9,309
10	06 Nov 25	14:39	14:59	345,101	352,872	7,771
11	06 Nov 25	15:00	15:20	339,375	353,802	14,427
12	06 Nov 25	15:21	15:41	343,986	353,467	9,481
Average				313,557	326,421	12,864
Confidence Coefficient (CC)						2,883
Relative Accuracy <sup>1/</sup> (Compared with RM) (%)						4.82
Relative Accuracy Criteria (Compared with RM)						≤ 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

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ 2-204-ก-0006

Approved by

Sarayuth Jittrantorn  
Assistant General Manager  
ทะเบียนเลขที่ 2-204-ก-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546354  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3446977-1

Page 2 of 2

Sample Number : 2546354-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 11  
Parameter : Stack Temperature

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Temperature Data		Difference
		Start	Stop	CEMs (°C)	RM (°C)	
1	06 Nov 25	11:30	11:50	103.8	103.0	-0.8
2	06 Nov 25	11:51	12:11	103.5	103.8	0.3
3	06 Nov 25	12:12	12:32	102.9	102.9	0.0
4	06 Nov 25	12:33	12:53	103.5	103.0	-0.5
5	06 Nov 25	12:54	13:14	103.5	103.0	-0.5
6*	06 Nov 25	13:15	13:35	102.3	101.1	-1.2
7	06 Nov 25	13:36	13:56	108.8	109.0	0.2
8*	06 Nov 25	13:57	14:17	110.8	110.0	-0.8
9	06 Nov 25	14:18	14:38	110.9	111.0	0.1
10*	06 Nov 25	14:39	14:59	111.4	110.1	-1.3
11	06 Nov 25	15:00	15:20	110.9	111.0	0.1
12	06 Nov 25	15:21	15:41	110.2	110.0	-0.2
Average				106.4	106.3	-0.1
Confidence Coefficient (CC)						0.3
Relative Accuracy <sup>1/</sup> (Compared with RM) (%)						0.4
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

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

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

RA Result is within Criteria

Sampled By : Sirichock Pongprasom

Technical Management  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ 7-204-ก-0006

Approved by  
Sarayuth Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546280  
Date Received: Nov 06, 2025  
Date Reported: Nov 29, 2025  
Report Number: 3446974-1

Page 1 of 2

Sample Number : 2546280-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 11  
Parameter : Relative Response Audit

### Relative Response Audit Test Report

No Sample	Date	Time		CEMS Values		RM Values (mg/m³ at 7%O₂)	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m³ at 7%O₂)		Minimum	Maximum	
1	6-Nov-25	11:30	12:06	0.36	0.45	0.23	-6.55	7.45	Pass
2	6-Nov-25	12:15	12:51	0.37	0.54	0.24	-6.46	7.54	Pass
3	6-Nov-25	13:05	13:41	0.38	0.54	0.94	-6.46	7.54	Pass
4	6-Nov-25	13:55	14:31	0.39	0.73	0.48	-6.27	7.73	Pass
5	6-Nov-25	14:45	15:21	0.40	0.74	0.70	-6.26	7.74	Pass

Remark : - Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for

Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)

- K Factor = 354

- Emission limit 28 mg/m3 from Environmental Impact Assessment Report of Gulf NLL2 Co., Ltd.

Technical Management  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ 7-204-ก-0006

Approved by  
Sarayuth Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ 7-204-ก-0003

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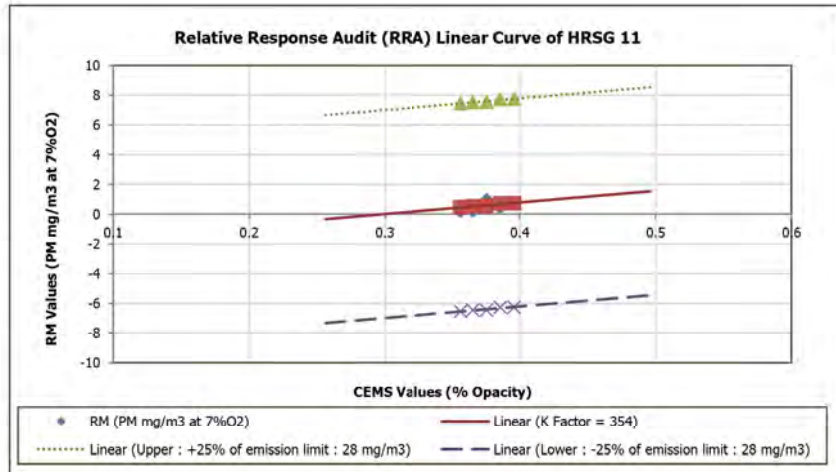
## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210901926  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2546280**  
**Date Received:** Nov 06, 2025  
**Date Reported:** Nov 29, 2025  
**Report Number:** 3446974-1

Page 2 of 2

**Sample Number** 2546280-1  
**Sampled Date** Nov 06, 2025  
**Sample Description** Emission from Stationary Source  
**Location** HRSG 11  
**Parameter** Relative Response Audit



**Sampled By :** Tinnakorn Kulchart

**Technical Management**

*Wichan Choonharat*  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ๖-204-๓-0006

**Approved by**

*Sarayu Jitranont*  
Sarayu Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ ๖-204-๓-0003

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210901926  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2546276**  
**Date Received :** Nov 06, 2025  
**Date Reported :** Nov 29, 2025  
**Report Number :** 3307574-1

Page 1 of 4

**Sample Number** 2546276-1  
**Sampled Date** Nov 06, 2025  
**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	06 Nov 25	11:25	11:45	12.42	14.01	25.06	27.56	2.50
2*	06 Nov 25	11:46	12:06	12.06	14.04	24.43	27.65	3.22
3	06 Nov 25	12:07	12:27	11.80	13.07	23.90	25.80	1.90
4	06 Nov 25	12:28	12:48	11.91	13.36	24.06	26.29	2.23
5	06 Nov 25	12:49	13:09	12.14	13.76	24.61	27.05	2.45
6	06 Nov 25	13:10	13:30	12.82	14.01	26.68	28.09	1.41
7	06 Nov 25	13:31	13:51	14.30	16.08	29.29	32.03	2.73
8	06 Nov 25	13:52	14:12	13.50	15.36	27.81	30.50	2.69
9	06 Nov 25	14:13	14:33	13.87	15.74	28.67	31.37	2.70
10*	06 Nov 25	14:34	14:54	13.93	15.99	28.76	31.85	3.09
11*	06 Nov 25	14:55	15:15	13.89	15.99	28.60	31.80	3.21
12	06 Nov 25	15:16	15:36	13.97	15.65	29.11	31.14	2.03
Average						26.58	28.87	2.29
Confidence Coefficient (CC)								0.34
Relative Accuracy (Compared with Emission Standard : 60 ppm) (%)								4.39
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 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 60 ppm at 7%O2

RA Result is within Criteria

**Technical Management**

*Wichan Choonharat*  
Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ๖-204-๓-0006

**Approved by**

*Sarayu Jitranont*  
Sarayu Jitranont  
Assistant General Manager  
ทะเบียนเลขที่ ๖-204-๓-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546276  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3307574-1

Page 2 of 4

Sample Number : 2546276-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 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*	06 Nov 25	11:25	11:45	0.31	0.18	0.62	0.36	-0.26
2	06 Nov 25	11:46	12:06	0.25	0.19	0.50	0.38	-0.12
3*	06 Nov 25	12:07	12:27	0.30	0.21	0.60	0.41	-0.19
4*	06 Nov 25	12:28	12:48	0.28	0.21	0.57	0.41	-0.16
5	06 Nov 25	12:49	13:09	0.23	0.21	0.47	0.40	-0.07
6	06 Nov 25	13:10	13:30	0.26	0.22	0.54	0.44	-0.10
7	06 Nov 25	13:31	13:51	0.28	0.23	0.56	0.45	-0.11
8	06 Nov 25	13:52	14:12	0.25	0.22	0.51	0.44	-0.07
9	06 Nov 25	14:13	14:33	0.28	0.22	0.58	0.44	-0.14
10	06 Nov 25	14:34	14:54	0.26	0.23	0.54	0.46	-0.08
11	06 Nov 25	14:55	15:15	0.26	0.23	0.54	0.46	-0.09
12	06 Nov 25	15:16	15:36	0.29	0.23	0.61	0.45	-0.16
Average						0.54	0.44	-0.11
Confidence Coefficient (CC)								0.02
Relative Accuracy (Compared with Emission Standard : 6 ppm) (%)								2.16
Relative Accuracy Criteria <sup>1/</sup> (Compared with Emission Standard)								≤ 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 6 ppm at 7%O<sub>2</sub>

RA Result is within Criteria

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546276  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3307574-1

Page 4 of 4

Sample Number : 2546276-1  
Sampled Date : Nov 06, 2025  
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	06 Nov 25	11:25	11:45	14.01	13.83	-0.18
2	06 Nov 25	11:46	12:06	14.04	13.84	-0.20
3	06 Nov 25	12:07	12:27	14.04	13.86	-0.18
4	06 Nov 25	12:28	12:48	14.02	13.83	-0.19
5	06 Nov 25	12:49	13:09	14.04	13.83	-0.21
6*	06 Nov 25	13:10	13:30	14.22	13.97	-0.25
7	06 Nov 25	13:31	13:51	14.11	13.92	-0.19
8*	06 Nov 25	13:52	14:12	14.15	13.90	-0.25
9	06 Nov 25	14:13	14:33	14.18	13.93	-0.25
10	06 Nov 25	14:34	14:54	14.17	13.92	-0.24
11	06 Nov 25	14:55	15:15	14.15	13.91	-0.24
12*	06 Nov 25	15:16	15:36	14.23	13.92	-0.31
Average				14.08	13.87	-0.21
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.21
Relative Accuracy Criteria (%)						≤ 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 :

Sathaporn Thakarn

Technical Management

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546353  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3446976-1

Page 1 of 2

Sample Number : 2546353-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 12 (GPS 47P 0744594, 1419342)  
Parameter : Flowrate

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Flowrate Data		Difference
		Start	Stop	CEMs (Nm <sup>3</sup> /Hr)	RM (Nm <sup>3</sup> /Hr)	
1	06 Nov 25	11:25	11:45	344,532	313,493	-31,039
2	06 Nov 25	11:46	12:06	345,547	313,484	-32,063
3	06 Nov 25	12:07	12:27	346,539	316,696	-29,843
4	06 Nov 25	12:28	12:48	344,288	319,395	-24,893
5	06 Nov 25	12:49	13:09	342,945	321,843	-21,102
6	06 Nov 25	13:10	13:30	336,395	328,784	-7,611
7	06 Nov 25	13:31	13:51	399,171	368,873	-30,298
8	06 Nov 25	13:52	14:12	397,850	366,262	-31,588
9*	06 Nov 25	14:13	14:33	409,165	366,110	-43,055
10*	06 Nov 25	14:34	14:54	406,902	366,856	-40,046
11	06 Nov 25	14:55	15:15	401,919	366,859	-35,060
12*	06 Nov 25	15:16	15:36	404,816	368,037	-36,779
Average				362,132	335,077	-27,055
Confidence Coefficient (CC)						6.443
Relative Accuracy <sup>1/</sup> (Compared with RM) (%)						10.00
Relative Accuracy Criteria (Compared with RM)						≤ 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

Technical Management

*Wichan Choonharat*

Wichan Choonharat  
Manager

ทะเบียนเลขที่ 7-204-ก-0006

Approved by

*Sarayuth Jitranont*

Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ 7-204-ก-0003

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120

P/O :  
Project Name : Monitoring EIA  
Project Location : GNLL2

Lot ID: 2546353  
Date Received : Nov 06, 2025  
Date Reported : Nov 29, 2025  
Report Number : 3446976-1

Page 2 of 2

Sample Number : 2546353-1  
Sampled Date : Nov 06, 2025  
Sample Description : Emission from Stationary Source  
Location : HRSO 12 (GPS 47P 0744594, 1419342)  
Parameter : Stack Temperature

### Relative Accuracy Test Audit Report

Run No.	Date	Time		Temperature Data		Difference
		Start	Stop	CEMs (°C)	RM (°C)	
1	06 Nov 25	11:25	11:45	104.1	112.8	8.7
2	06 Nov 25	11:46	12:06	104.2	112.8	8.6
3	06 Nov 25	12:07	12:27	103.7	112.0	8.3
4	06 Nov 25	12:28	12:48	104.1	112.3	8.2
5	06 Nov 25	12:49	13:09	104.3	112.0	7.7
6*	06 Nov 25	13:10	13:30	103.3	112.0	8.7
7	06 Nov 25	13:31	13:51	107.5	112.0	4.5
8*	06 Nov 25	13:52	14:12	111.3	120.0	8.7
9	06 Nov 25	14:13	14:33	111.7	119.0	7.3
10	06 Nov 25	14:34	14:54	111.8	120.0	8.2
11	06 Nov 25	14:55	15:15	111.7	120.0	8.3
12*	06 Nov 25	15:16	15:36	111.0	120.0	9.0
Average				107.0	114.8	7.8
Confidence Coefficient (CC)						1.0
Relative Accuracy <sup>1/</sup> (Compared with RM) (%)						7.6
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

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

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

RA Result is within Criteria

Sampled By : Khunakon Manchuan

Technical Management

*Wichan Choonharat*

Wichan Choonharat  
Manager

ทะเบียนเลขที่ 7-204-ก-0006

Approved by

*Sarayuth Jitranont*

Sarayuth Jitranont  
Assistant General Manager

ทะเบียนเลขที่ 7-204-ก-0003

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## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210901926  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2546281**  
Date Received: Nov 06, 2025  
Date Reported: Nov 29, 2025  
Report Number: 3446975-1

Page 1 of 2

**Sample Number** 2546281-1  
**Sampled Date** Nov 06, 2025  
**Sample Description** Emission from Stationary Source  
**Location** HRSG 12 (GPS 47P 0744594, 1419342)  
**Parameter** Relative Response Audit

### Relative Response Audit Test Report

No Sample	Date	Time		CEMS Values		RM Values (mg/m <sup>3</sup> at 7%O <sub>2</sub> )	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m <sup>3</sup> at 7%O <sub>2</sub> )		Minimum	Maximum	
1	6-Nov-25	11:25	12:01	0.28	0.06	0.88	-6.94	7.06	Pass
2	6-Nov-25	12:09	12:45	0.29	0.16	0.67	-6.84	7.16	Pass
3	6-Nov-25	12:55	13:31	0.30	0.01	0.22	-6.99	7.01	Pass
4	6-Nov-25	13:41	14:17	0.31	0.05	1.15	-6.95	7.05	Pass
5	6-Nov-25	14:27	15:03	0.31	0.20	0.57	-6.80	7.20	Pass

Remark : - Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)  
- K Factor = 451  
- Emission limit 28 mg/m3 from Environmental Impact Assessment Report of Gulf NLL2 Co., Ltd.

Technical Management

*Wichan Choonharat*

Wichan Choonharat

Manager

ทะเบียนเลขที่ ๖-204-๓-0006

Approved by

*Sarayuth Jittrant*

Sarayuth Jittrant

Assistant General Manager

ทะเบียนเลขที่ ๖-204-๓-0003

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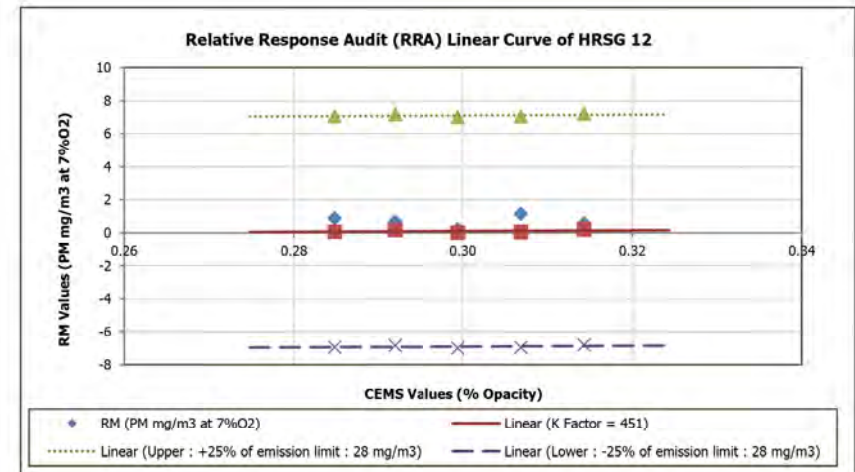
## Analysis / Test Report

**Client :** Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
**P/O :** 4210901926  
**Project Name :** Monitoring EIA  
**Project Location :** GNLL2

**Lot ID: 2546281**  
Date Received: Nov 06, 2025  
Date Reported: Nov 29, 2025  
Report Number: 3446975-1

Page 2 of 2

**Sample Number** 2546281-1  
**Sampled Date** Nov 06, 2025  
**Sample Description** Emission from Stationary Source  
**Location** HRSG 12 (GPS 47P 0744594, 1419342)  
**Parameter** Relative Response Audit



Sampled By : Warawut Pupa

Technical Management

*Wichan Choonharat*

Wichan Choonharat

Manager

ทะเบียนเลขที่ ๖-204-๓-0006

Approved by

*Sarayuth Jittrant*

Sarayuth Jittrant

Assistant General Manager

ทะเบียนเลขที่ ๖-204-๓-0003

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## ภาคผนวก ค-4

รายงานการหาอุณหภูมิพื้นผิว

(Land Surface Temperature)

โดยใช้ข้อมูลจากดาวเทียม LANDSAT-8 ระบบ TIRS

บริเวณโครงการโรงไฟฟ้าหนองละลอก 2 ประจำปี พ.ศ. 2568

การหาอุณหภูมิพื้นผิว (Land Surface Temperature)  
โดยใช้ข้อมูลจากดาวเทียม LANDSAT-8 ระบบ TIRS  
บริเวณโครงการโรงไฟฟ้าหนองลอก 2  
ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง  
29 มีนาคม 2568



โดย

ฝ่ายทรัพยากรธรรมชาติ สิ่งแวดล้อม และภัยพิบัติ

สำนักประยุกต์และบริหารภูมิสารสนเทศ

สำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน)



อุณหภูมิพื้นผิว (Land Surface Temperature)

1. ความเป็นมาของการศึกษา

เนื่องจากสำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน) สทอภ. ได้รับการติดต่อจากบริษัท เอลแอล แลบริเอทอรี่ กรุ๊ป (ประเทศไทย) จำกัด ให้ดำเนินการวิเคราะห์และประมวลผลคลื่นความร้อน โดยแสดงเป็นอุณหภูมิพื้นผิว (Land surface temperature) หน่วยเป็นองศาเซลเซียส บริเวณโครงการโรงไฟฟ้าหนองลอก 2 เพื่อแสดงความแตกต่างระหว่างอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าและพื้นที่ใกล้เคียงโดยรอบ ซึ่งส่วนใหญ่เป็นพื้นที่เขตประกอบการอุตสาหกรรม พื้นที่เกษตรกรรม และแหล่งชุมชน ทั้งนี้เพื่อใช้เป็นข้อมูลพื้นฐานของอุณหภูมิพื้นผิวช่วงฤดูร้อน (ปลายเดือนมีนาคม)

2. โครงการโรงไฟฟ้าหนองลอก 2

โครงการโรงไฟฟ้าหนองลอก 2 ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด (มหาชน) ตั้งอยู่ในเขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อ เขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง เป็นบริษัทในกลุ่มบริษัท กัลฟ์ ที่ก่อตั้งเพื่อดำเนินธุรกิจเกี่ยวกับการผลิตไฟฟ้า โดยมีวัตถุประสงค์เพื่อผลิตและจำหน่ายไฟฟ้าให้กับการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมในเขตประกอบการฯ รวมทั้งผลิตและจำหน่ายไอน้ำ หรือไอน้ำให้กับโรงงานในในเขตประกอบการฯ โดยมีลักษณะของกระบวนการผลิตแบบ "โคเจนเนอเรชัน" (Co-generation system) มีกำลังการผลิตไฟฟ้าสูงสุดประมาณ 137 เมกะวัตต์ ไอน้ำสูงสุดประมาณ 30 ตันต่อชั่วโมง หรือไอน้ำเฉลี่ยสูงสุดประมาณ 5,500 ตันต่อวัน

2.1 ความเป็นมา

โครงการโรงไฟฟ้าหนองลอก 2 ดำเนินการโดยบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด เพื่อผลิตกระแสไฟฟ้าเพิ่มเติมรองรับความต้องการใช้กระแสไฟฟ้าในพื้นที่เขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ ให้เพียงพอ โดยการจำหน่ายไฟฟ้าให้กับการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมต่างๆ ภายในเขตประกอบการอุตสาหกรรมฯ นอกจากนี้ผลิตไอน้ำในรูปของไอน้ำ (Steam) ที่ได้จากโครงการจะมีการส่งจำหน่ายให้กับโรงงานภายในเขตอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ เช่นกัน

ทั้งนี้โครงการมีการแบ่งการผลิตแบบพลังงานร่วม หรือ โคเจนเนอเรชัน ซึ่งประกอบด้วยอุปกรณ์สำคัญดังนี้ 1) เครื่องกำเนิดไฟฟ้ากังหันก๊าซ (Combustion Turbine Generators : CTGs) จำนวน 2 เครื่อง 2) หน่วยผลิตไอน้ำ (Heat Recovery Steam Generators : HRSGs) 3) เครื่องกำเนิดไฟฟ้ากังหันไอน้ำ (Steam Turbine Generator : STG) 1 ชุด โดยจะได้ผลิตไอน้ำ 3 ชนิด ได้แก่ กระแสไฟฟ้า ไอน้ำ และน้ำเย็น โดยสามารถผลิตและจำหน่ายให้กับโรงงานอุตสาหกรรมภายในเขตประกอบการฯ ซึ่งกระแสไฟฟ้าจะถูกส่งผ่านระบบสายส่ง ขนาด 115 และ 22 กิโลโวลต์ สำหรับเชื้อเพลิงที่ใช้ในการผลิตคือก๊าซธรรมชาติจากบริษัท ปตท. จำกัด (มหาชน) โดยได้รับปริมาณเชื้อเพลิงประมาณ 22.16 ล้านลูกบาศก์ฟุต/วัน ส่วนน้ำใช้ของโครงการมีความต้องการใช้น้ำประมาณ 4,208 ลูกบาศก์เมตรต่อวัน โดยรับอุตสาหกรรมจากโรงผลิตน้ำ ของเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์

2.2 ที่ตั้ง

โครงการโรงไฟฟ้าหนองลอก 2 (โครงการฯ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด มีพื้นที่ขนาดประมาณ 30 ไร่ ตั้งอยู่เลขที่ 399 หมู่ 3 เขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อเขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง โดยอาณาเขตติดต่อพื้นที่โครงการมีรายละเอียด ดังนี้

- ทิศเหนือ ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ
- ทิศใต้ ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด และบริษัท เอเซีย ยูนิตี้ พาวเวอร์ จำกัด
- ทิศตะวันออก ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ
- ทิศตะวันตก ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด

3. ระบบผลิตไฟฟ้าและความร้อนร่วม (Cogeneration System)

ระบบผลิตกระแสไฟฟ้าของโครงการโรงไฟฟ้าหนองลอก 2 ประกอบด้วย เครื่องกำเนิดไฟฟ้าแบบกังหันก๊าซ (Combustion Turbine Generators: CTGs) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 48.46 เมกะวัตต์ จำนวน 2 ชุด และเครื่องกำเนิดไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine Generator: STG) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 40.09 เมกะวัตต์ จำนวน 1 ชุด

สำหรับกระบวนการผลิตไฟฟ้าเป็นโรงไฟฟ้าที่ผลิตไฟฟ้าจากเครื่องผลิตไฟฟ้าแบบกังหันก๊าซร่วมกับเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ โดยใช้พลังงานความร้อนจากการเผาไหม้ก๊าซธรรมชาติมาเปลี่ยนเป็นพลังงานกล ในการขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซเพื่อผลิตกระแสไฟฟ้า โดยเชื้อเพลิงที่ใช้ในการผลิตกระแสไฟฟ้า คือ ก๊าซธรรมชาติ โดยรับจากบริษัท ปตท. จำกัด (มหาชน) และส่งไปผ่านท่อส่งก๊าซธรรมชาติเพื่อป้อนเข้าสู่เครื่องกังหันก๊าซ (Combustion Turbine) โดยผ่านเข้าไปในห้องเผาไหม้ ไนโตรเจนที่มาจากอากาศจะถูกดูดจากภายนอกเข้าไปในเครื่องอัดอากาศจนความดันสูงขึ้น และส่งต่อไปยังห้องเผาไหม้ ภายในห้องเผาไหม้ก๊าซธรรมชาติและอากาศจะเกิดการเผาไหม้กลายเป็นก๊าซร้อนแล้วไหลไปขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซ เพื่อผลิตกระแสไฟฟ้า ผ่านหม้อแปลงไฟฟ้าจ่ายเข้าสู่ระบบ

ส่วนก๊าซร้อน (Exhaust Gas) ที่ขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซแล้ว ยังมีความร้อนสูงที่อุณหภูมิประมาณ 563 องศาเซลเซียส โดยถูกนำกลับมาป้อนเข้าสู่เครื่องผลิตไอน้ำ (Heat Recovery Steam Generator: HRSG) ซึ่งจะนำความร้อนให้แก่น้ำภายในหม้อไอน้ำที่ไต้แรงดัน 2 ระดับ คือ ไอน้ำแรงดันสูง (High Pressure Steam) 72.35 บาร์ และไอน้ำแรงดันปานกลาง (Intermediate Pressure Steam) ประมาณ 7.48 บาร์ ไอน้ำดังกล่าวจะถูกนำไปหมุนเครื่องกังหันไอน้ำที่ต่อร่วมกับเครื่องผลิตไฟฟ้าอีกชุดหนึ่ง เรียกว่า เครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine) เพื่อผลิตกระแสไฟฟ้าผ่านหม้อแปลงไฟฟ้าก่อนจ่ายเข้าสู่ระบบต่อไป

ส่วนไอน้ำที่ผ่านการใช้งานแล้วจากเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ จะถูกเปลี่ยนสภาพให้ กลายเป็นน้ำแล้วนำกลับไปที่กระบวนการผลิตไอน้ำอีกครั้งหนึ่ง โดยผ่านไอน้ำเข้าเครื่องควบแน่น ซึ่งจะใช้น้ำเป็นตัวหล่อเย็น น้ำร้อนจากเครื่องควบแน่นจะถูกทำให้เย็นลง โดยผ่านหอหล่อเย็น น้ำกลับมาใช้ใหม่ ส่วนน้ำเสียจากกระบวนการผลิตไฟฟ้าจะถูกระบายออกทางท่อของโรงไฟฟ้า โดยควบคุมไม่ให้มีปริมาณก๊าซออกซิจีนในไดรเจน (NOx) สูงเกินกว่าค่ามาตรฐานที่กำหนดไว้ด้วยระบบ ควบคุม Dry Low NO<sub>x</sub> Burner

4. การคำนวณค่าอุณหภูมิพื้นผิว (Surface Temperature) จากข้อมูลดาวเทียม LANDSAT-8

4.1 พื้นศึกษา

โครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง ตั้งอยู่ในเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ สภาพพื้นที่โดยส่วนใหญ่เป็นที่ราบลุ่มที่ค่อนข้างเป็นลูกคลื่น ทิศเหนือติดต่อกับบริษัท พูเปิร์ก อินดัสเทรียล จำกัด และตำบลแม่ไม้ อำเภอปลวกแดง ตำบลหนองบัว อำเภอบ้านค่าย ทิศตะวันออกติดต่อกับบริษัท ยูนิตี้ อินดัสเทรียล จำกัด และตำบลหนองบัว ตำบลบางบุตร และตำบลบ้านค่าย อำเภอบ้านค่าย ทิศใต้ติดต่อกับบริษัท การเคหะ อินดัสเทรียล จำกัด และตำบลบ้านค่าย และตำบลหนองพวน อำเภอบ้านค่าย ทิศตะวันตกติดต่อกับบริษัท สยามสตีลคอร์ป จำกัด และตำบลนาข้าว และตำบลนิคมพัฒนา อำเภอนิคมพัฒนาสภาพภูมิอากาศ อยู่ภายใต้อิทธิพลของลมมรสุมตะวันออกเฉียงเหนือ และลมมรสุมตะวันตกเฉียงใต้ ทำให้อากาศชื้นและมรสุมโดยทั่วไป มี 3 ฤดู คือ ฤดูหนาวเริ่มตั้งแต่กลางเดือนตุลาคมถึงกลางเดือนกุมภาพันธ์ ฤดูร้อนประมาณกลางเดือนกุมภาพันธ์ถึงประมาณกลางเดือนพฤษภาคม ฤดูฝน เริ่มกลางเดือนพฤษภาคมถึงกลางเดือนตุลาคม ประชากรส่วนใหญ่ ประกอบอาชีพเกษตรกรรมในพื้นที่ราบ ดังภาพที่ 1 และภาพขยายพื้นที่บริเวณโครงการโรงไฟฟ้าและพื้นที่โดยรอบโครงการโรงไฟฟ้า ดังภาพที่ 2



ภาพที่ 1 แสดงสภาพพื้นที่ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง และพื้นที่ใกล้เคียง (ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 บันทึกภาพวันที่ 29 มีนาคม 2568)

ในการศึกษา ได้กำหนดพื้นที่ศึกษาโดยรอบโครงการโรงไฟฟ้าหนองลอก 2 รัศมี 5 กิโลเมตร ดังภาพที่ 2 ซึ่งจะครอบคลุมพื้นที่การประกอบชุมชนและสิ่งปลูกสร้างหลายประเภท เช่น พื้นที่การเกษตร พื้นที่ชุมชนเมือง และพื้นที่ประกอบอุตสาหกรรม ซึ่งจะช่วยให้สามารถเปรียบเทียบความแตกต่างของอุณหภูมิพื้นผิวในพื้นที่ที่มีลักษณะแตกต่างกันได้อย่างชัดเจน



ภาพที่ 2 ภาพถ่ายบริเวณโครงการโรงไฟฟ้าหนองลอก 2 ตัวสถานีหนองลอก อำเภอบ้านค่าย จังหวัดระยอง และพื้นที่โดยรอบโครงการโรงไฟฟ้า (ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 บันทึกภาพ วันที่ 29 มีนาคม 2568)

## 4.2 ขั้นตอนการศึกษา

### 4.2.1 ข้อมูลดาวเทียมที่ใช้ในการศึกษา

ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, Band 10 (ความยาวคลื่น 10.60 - 11.19 ไมโครเมตร) หรือช่วงคลื่นอินฟราเรดความร้อน (Thermal Infrared) Path/Row ที่ 128/51, เวลาถ่ายภาพประมาณ 10:30 นาฬิกา (เวลาประเทศไทย) มีความละเอียดเชิงพื้นที่ (Spatial resolution) ที่ 100 เมตร (ในขณะที่ Band อื่นๆ ได้แก่ band 1-7 และ band 9 จะมีความละเอียดภาพที่ 30 เมตร รายละเอียดดังตารางที่ 1) ซึ่งเป็นช่วงคลื่นที่นำมาใช้ในการหาค่าอุณหภูมิพื้นผิว (Land Surface Temperature : LST) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง โดยเลือกข้อมูลจากดาวเทียม LANDSAT-8 ในวันที่ 29 มีนาคม 2568 เวลาถ่ายภาพประมาณ 10:31:14 นาฬิกา (เวลาประเทศไทย)

เมื่อ  $T_e$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K  
 $L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot ster \cdot \mu m)$   
 $K_2$  และ  $K_1$  คือ ค่า Pre-launch Calibration Constant ซึ่งกำหนดสำหรับข้อมูลจากดาวเทียม LANDSAT-8 TIRS ดังนี้

ตารางที่ 2 รายละเอียดข้อมูล (metadata) สำหรับ TIRS Thermal Band Calibration Constants (U.S. Geological Survey, 2013)

Constant (Unit)	Band 10	Band 11
Radiance Multiplier	0.0003342	0.0003342
Radiance Add	0.1	0.1
$K_1$ (watts/(meter squared * ster * $\mu m$ ))	774.89	480.89
$K_2$ (Kelvin)	1321.08	1201.14

3) ค่าอุณหภูมิในสมการข้างบนจะเป็นค่าที่อ้างอิงจาก back body ดังนั้นเพื่อหาค่าอุณหภูมิพื้นผิวดินที่แท้จริง จะต้องคำนึงถึงการแผ่รังสีจากสิ่งปกคลุมพื้นผิว (spectral emissivity according to the natural of land cover) จาก Snyder et al. (1998) ได้เสนอการคำนวณค่า  $\epsilon$  เพื่อปรับแก้อุณหภูมิการปลดปล่อยที่พื้นผิว (emissivity corrected land surface temperature;  $S_L$ ) ซึ่งคำนวณตามความสัมพันธ์ ดังสมการที่ 3 (Artis & Camahan, 1982)

$$S_L = \frac{T_b}{1 + \left( \frac{T_b}{\lambda \times \rho} \right) \ln \epsilon}$$

เมื่อ  $S_L$  คือ ค่าอุณหภูมิพื้นผิว หน่วย Kelvin, K  
 $T_b$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K  
 $\lambda$  คือ ความยาวคลื่นของ Emitted Radiance ซึ่งเลือกใช้ค่ากลางที่  $\lambda = 10.6 \mu m$   
 $\epsilon$  คือ ค่าเฉลี่ยการปลดปล่อยเชิงคลื่น (Spectral Emissivity) จากพื้นผิวแบบต่างๆ ซึ่งค่าที่เลือกใช้ในสมการ สามารถดูได้จากตารางที่ 3 ซึ่งค่าที่ใช้ในการคำนวณ จะใช้  $\epsilon = 0.969$  (Arid bare soil/Urban)  
 $\rho$  มีค่าเท่ากับ  $1.438 \times 10^{-2} m/K$ , เป็นค่าที่ได้มาจากการคำนวณที่  $\rho = h \times \frac{1}{\sigma}$   
เมื่อ  $h$  = ค่าคงที่ของ Planck ( $6.626 \times 10^{-34} J \cdot s$ )  
 $C$  = ความเร็วของแสง (Velocity of Light) ( $2.998 \times 10^8 m/s$ )  
 $\sigma$  = ค่าคงที่ของ Stefan Boltzmann ( $1.38 \times 10^{-23} J/K$ )

ตารางที่ 1 แสดงรายละเอียด Satellite Sensors ของ LANDSAT-7,8

Landsat-7 ETM+ Bands ( $\mu m$ )			Landsat-8 OLI and TIRS Bands ( $\mu m$ )		
			30 m Coastal/Aerosol	0.435 - 0.451	Band 1
Band 1	30 m Blue	0.441 - 0.514	30 m Blue	0.452 - 0.512	Band 2
Band 2	30 m Green	0.519 - 0.601	30 m Green	0.533 - 0.590	Band 3
Band 3	30 m Red	0.631 - 0.692	30 m Red	0.636 - 0.673	Band 4
Band 4	30 m NIR	0.772 - 0.898	30 m NIR	0.851 - 0.879	Band 5
Band 5	30 m SWIR-1	1.547 - 1.749	30 m SWIR-1	1.566 - 1.651	Band 6
Band 6	60 m TIR	10.31 - 12.36	100 m TIR-1	10.60 - 11.19	Band 10
			100 m TIR-2	11.50 - 12.51	Band 11
Band 7	30 m SWIR-2	2.064 - 2.345	30 m SWIR-2	2.107 - 2.294	Band 7
Band 8	15 m Pan	0.515 - 0.896	15 m Pan	0.503 - 0.676	Band 8
			30 m Cirrus	1.363 - 1.384	Band 9

ข้อมูลจากดาวเทียม LANDSAT-8 ที่ได้รับข้อมูลจากสถานีรับสัญญาณดาวเทียมที่นามูวเคราห์ เป็นข้อมูล level 1 ซึ่งผ่านการประมวลผลปรับแก้ทาง Radiometric และ Geometric Correction อยู่ในลักษณะข้อมูล GeoTIFF Format

### 4.2.2 วิธีการคำนวณค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

ข้อมูลดาวเทียม LANDSAT-8 TM, Path/Row ที่ 128/51 เลือกเฉพาะช่วง band 10 ที่ถูกปรับแก้ความคลาดเคลื่อนทางภูมิศาสตร์แล้ว จะนำมาคำนวณ เพื่อหาค่าอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง ดังนี้รายละเอียดตามขั้นตอนดังนี้

1) เปลี่ยนค่า Digital Number (DN) ของข้อมูลจากดาวเทียม LANDSAT-8 TIRS, Thermal Infrared Sensor (band 10) ไปเป็นค่า Spectral Radiance ดังสมการที่ 1 (USGS, 2013):

$$L_\lambda = 0.00033422 \times DN + 0.1$$

เมื่อ  $L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot ster \cdot \mu m)$

DN คือ ค่า Digital Number ของข้อมูล band 10 หน่วยเป็น  $W/(m^2 \cdot ster \cdot \mu m)$

2) เปลี่ยนค่า Spectral Radiance ไปเป็นค่า Brightness Temperature,  $T_b$  (หรือ Black Body Temperature) ตามความสัมพันธ์ ดังสมการที่ 2 (LANDSAT Project Science Office, 2002)

$$T_b = \frac{K_2}{\ln \left( \frac{K_1}{L_\lambda} + 1 \right)}$$

ตารางที่ 3 ค่าเฉลี่ยตามฤดูกาลของการแผ่รังสีจากสิ่งปกคลุมพื้นผิวแต่ละชนิด สำหรับข้อมูลดาวเทียม MODIS band 31 and 32 (Snyder et al., 1998)

Emissivity Classes	Mean Emissivity ( $\epsilon$ )					
	Green Season			Senescent Season		
	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average
NeedleForest	0.989	0.991	0.990	0.986	0.988	0.987
Broadleaf Forest	0.987	0.990	0.989	0.968	0.971	0.970
Woody Savanna	0.988	0.991	0.990	0.975	0.978	0.977
Grass Savanna	0.987	0.991	0.989	0.973	0.975	0.974
Sparse Shrubs	0.972	0.975	0.974	0.970	0.976	0.973
Water/Wetland	0.991	0.986	0.989	0.991	0.986	0.989
Organic Bare Soil	0.977	0.982	0.980	0.977	0.982	0.980
Arid Bare Soil/ Urban	0.966	0.972	0.969	0.966	0.972	0.969

4) คำนวณหาค่าอุณหภูมิในหน่วยเซลเซียส จากความสัมพันธ์  
Centigrade Temperature ( $^{\circ}C$ ) = Absolute Temperature ( $^{\circ}K$ ) - 273.15

### 5. ผลการศึกษาค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

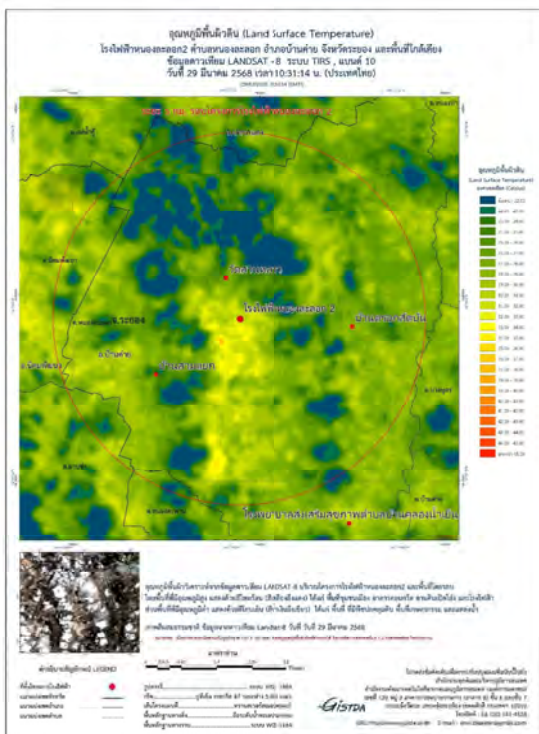
#### 5.1 ข้อมูลอุณหภูมิพื้นผิว จาก LANDSAT-8

ข้อมูลอุณหภูมิพื้นผิวที่มีหน่วยเป็นองศาเซลเซียส ซึ่งได้จากการคำนวณในช่วงต้น จะถูกนำมากำหนดค่าสีของค่าช่วงอุณหภูมิ โดยกำหนดค่าอันตรภาคชั้น (Class Interval) ของอุณหภูมิแต่ละช่วงให้เท่ากับ 1 องศาเซลเซียส ดังแสดงในภาพที่ 3

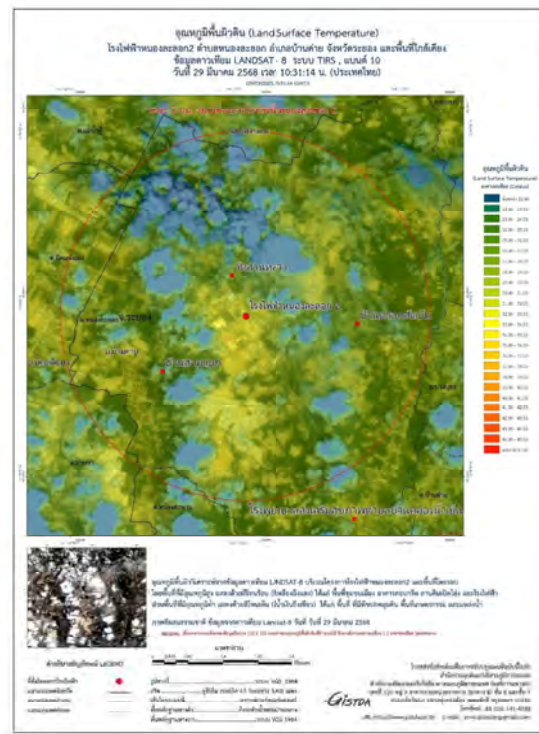


ภาพที่ 3 แสดงช่วงอันตรภาคชั้น (Class Interval) และสีที่แทนค่าของค่าอุณหภูมิแต่ละช่วง

อุณหภูมิพื้นผิว (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง วันที่ 29 มีนาคม 2568 ดังภาพที่ 4-5



ภาพที่ 4 อุณหภูมิพื้นผิวดิน (Land Surface Temperature) โครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง จากข้อมูลดาวเทียม LANDSAT-8 TIRS, band 10 บันทึกภาพเมื่อวันที่ 29 มีนาคม 2568 เวลา 10:31:14 น.



ภาพที่ 5 อุณหภูมิพื้นผิวดิน (Land Surface Temperature) ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, band 10 บันทึกภาพเมื่อวันที่ 29 มีนาคม 2568

จากภาพอุณหภูมิพื้นผิวดิน (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง ในภาพที่ 4-5 แสดงความแตกต่างของอุณหภูมิพื้นผิวดินที่ขึ้นอยู่กับการใช้ประโยชน์ที่ดินและสิ่งปกคลุมดินได้อย่างชัดเจน จากภาพจะเห็นได้ว่า

ในวันที่ 29 มีนาคม 2568 บริเวณพื้นที่ศึกษาโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง มีค่าอุณหภูมิพื้นผิวดินอยู่ระหว่าง 22.9 – 37.4 องศาเซลเซียส โดยพื้นที่เกษตรกรรม แหล่งน้ำ พื้นชุมชน จะมีค่าอุณหภูมิพื้นผิวดินจากข้อมูลดาวเทียม อยู่ระหว่าง 22.9 – 29.9 องศาเซลเซียส

ส่วนบริเวณโรงงานอุตสาหกรรม แหล่งชุมชน หรือพื้นที่ที่มีพื้นสิ่งปกคลุมเป็นคอนกรีต ไม่ สังกะสี พื้นดิน เป็ดโล่ง และพื้นที่แนวเขตรัฐบาลทางเกษตร จะมีค่าอุณหภูมิพื้นผิวดินสูงกว่าพื้นที่ข้างต้น คือมีค่าอยู่ประมาณ 25.0 – 37.4 องศาเซลเซียส

โดยพื้นที่โครงการโรงไฟฟ้าหนองลอก 2 มีค่าอุณหภูมิอยู่ระหว่าง 30.3 – 32.0 องศาเซลเซียส

จากผลการศึกษาดังกล่าว เมื่อนำค่าอุณหภูมิพื้นผิวดินที่ได้จากการวิเคราะห์โดยข้อมูลจากดาวเทียม LANDSAT-8 TIRS, แบนด์ 10 เปรียบเทียบกับค่าอุณหภูมิของกรมอุตุนิยมวิทยาจากสถานีอะเชียงเหรา จังหวัด อะเชียงเหรา ในช่วงเวลาใกล้เคียงกัน พบว่าค่าอุณหภูมิพื้นผิวดินที่ได้จากการวิเคราะห์โดยข้อมูลจากดาวเทียมเท่ากับ อุณหภูมิของกรมอุตุนิยมวิทยา ดังตารางที่ 4

ตารางที่ 4 แสดงค่าอุณหภูมิ (องศาเซลเซียส) ของกรมอุตุนิยมวิทยา ณ สถานีอะเชียงเหรา จังหวัดอะเชียงเหรา

สถานี/จังหวัด	วัน/เดือน/ปี	ค่าอุณหภูมิ
อะเชียงเหรา/อะเชียงเหรา	26/03/2025 10:00 น.	31
อะเชียงเหรา/อะเชียงเหรา	27/03/2025 10:00 น.	31
อะเชียงเหรา/อะเชียงเหรา	28/03/2025 10:00 น.	31.1
อะเชียงเหรา/อะเชียงเหรา	29/03/2025 10:00 น.	30.6
อะเชียงเหรา/อะเชียงเหรา	30/03/2025 10:00 น.	30
อะเชียงเหรา/อะเชียงเหรา	31/03/2025 10:00 น.	29
อะเชียงเหรา/อะเชียงเหรา	1/04/2025 10:00 น.	30.2

หมายเหตุ : \* อุณหภูมิคุ้มครองแห้ง : Dry-bulb temperature อุณหภูมิที่อ่านได้จากเทอร์โมมิเตอร์คุ้มครองแห้งหรือ เทอร์โมมิเตอร์ธรรมดา ซึ่งติดตั้งอยู่ในที่ๆ มีอากาศถ่ายเทตามธรรมชาติ และอยู่ในร่มเงาไม่ถูกรังสีจากดวงอาทิตย์ โดยตรง

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สถาบันสารสนเทศทรัพยากรน้ำและการเกษตร (องค์การมหาชน) คลังข้อมูลน้ำและภูมิอากาศ แหล่งที่มา : <https://www.thaiwater.net/weather/weather-station>

การหาอุณหภูมิพื้นผิว (Land Surface Temperature)  
โดยใช้ข้อมูลจากดาวเทียม LANDSAT-8 ระบบ TIRS  
บริเวณโครงการโรงไฟฟ้าหนองลอก 2  
ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง  
20 สิงหาคม 2568



โดย  
ฝ่ายจัดการภัยธรรมชาติ

สำนักประยุกต์และพัฒนาระบบสารสนเทศ

สำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน)

อุณหภูมิพื้นผิว (Land Surface Temperature)

1. ความเป็นมาของการศึกษา

เนื่องจากสำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน) สทอ. ได้รับการติดต่อจากบริษัท เอนเนอร์ยี่ กรุ๊ป (ประเทศไทย) จำกัด ให้ดำเนินการวิเคราะห์และประมวลผลคลื่นความร้อน โดยแสดงเป็นอุณหภูมิพื้นผิว (Land surface temperature) หน่วยเป็นองศาเซลเซียส บริเวณโครงการโรงไฟฟ้าหนองลอก 2 เพื่อแสดงความแตกต่างระหว่างอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าและพื้นที่ใกล้เคียงโดยรอบ ซึ่งส่วนใหญ่เป็นพื้นที่เกษตรกรรม การเกษตรกรรม และแหล่งชุมชน ทั้งนี้เพื่อใช้เป็นข้อมูลพื้นฐานของอุณหภูมิพื้นผิวช่วงฤดูฝน (ปลายเดือนสิงหาคม)

2. โครงการโรงไฟฟ้าหนองลอก 2

โครงการโรงไฟฟ้าหนองลอก 2 ของบริษัท กัลฟ์ เอ็นเนอร์ยี่ จำกัด ตั้งอยู่ในเขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อ เขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง เป็นบริษัทในกลุ่มบริษัท กัลฟ์ ที่ก่อตั้งเพื่อดำเนินธุรกิจเกี่ยวกับการผลิตไฟฟ้า โดยมีวัตถุประสงค์เพื่อผลิตและจำหน่ายไฟฟ้าให้กับภาคการผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมในเขตประกอบการฯ รวมทั้งผลิตและจำหน่ายไอน้ำ หรือนำไอน้ำให้กับโรงงานในเขตประกอบการฯ โดยมีลักษณะของกระบวนการผลิตแบบ "โคเจนเนอเรชัน" (Co-generation system) มีกำลังการผลิตไฟฟ้าสูงสุดประมาณ 137 เมกะวัตต์ ไอน้ำสูงสุดประมาณ 30 ตันต่อชั่วโมง หรือนำไอน้ำสูงสุดประมาณ 5,500 ตันความเย็น

2.1 ความเป็นมา

โครงการโรงไฟฟ้าหนองลอก 2 ดำเนินการโดยบริษัท กัลฟ์ เอ็นเนอร์ยี่ จำกัด เพื่อผลิตกระแสไฟฟ้าเพิ่มเติมรองรับความต้องการใช้กระแสไฟฟ้าในพื้นที่เขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ ให้เพียงพอ โดยการจำหน่ายให้กับภาคการผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมต่างๆ ภายในเขตประกอบการอุตสาหกรรมฯ นอกจากนี้ผลิตไอน้ำในรูปของไอน้ำ (Steam) ที่ได้จากโครงการจะมีการส่งจำหน่ายให้กับโรงงานภายในเขตอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ เช่นกัน

ทั้งนี้โครงการมีการบูรณาการการผลิตแบบพลังงานร่วม หรือ โคเจนเนอเรชัน ซึ่งประกอบด้วยอุปกรณ์สำคัญดังนี้ 1) เครื่องกำเนิดไฟฟ้ากังหันก๊าซ (Combustion Turbine Generators : CTGs) จำนวน 2 เครื่อง 2) หน่วยผลิตไอน้ำ (Heat Recovery Steam Generators : HRSGs) 3) เครื่องกำเนิดไฟฟ้ากังหันไอน้ำ (Steam Turbine Generator : STG) 1 ชุด โดยจะได้ผลิตไอน้ำ 3 ชนิด ได้แก่ กระแสไฟฟ้า ไอน้ำ และน้ำเย็น โดยสามารถผลิตและจำหน่ายให้กับโรงงานอุตสาหกรรมภายในสวนอุตสาหกรรมฯ ซึ่งกระแสไฟฟ้าจะถูกส่งผ่านระบบสายส่ง ขนาด 115 และ 22 กิโลโวลต์ สำหรับเชื้อเพลิงที่ใช้ในการผลิตคือก๊าซธรรมชาติจากบริษัท ปตท. จำกัด (มหาชน) โดยใช้งบประมาณเชื้อเพลิงประมาณ 22.16 ล้านบาทต่อวัน ส่วนน้ำใช้ของโครงการมีความต้องการใช้น้ำประมาณ 4,208 ลูกบาศก์เมตรต่อวัน โดยรับอุตสาหกรรมจากโรงผลิตน้ำ ของเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์



2.2 ที่ตั้ง

โครงการโรงไฟฟ้าหนองลอก 2 (โครงการฯ) ของบริษัท กัลฟ์ เอ็นเนอร์ยี่ จำกัด มีพื้นที่ขนาดประมาณ 30 ไร่ ตั้งอยู่เลขที่ 399 หมู่ 3 เขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อเขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง โดยอาณาเขตติดต่อพื้นที่โครงการมีรายละเอียด ดังนี้

ทิศเหนือ ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ  
ทิศใต้ ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด และบริษัท เอเซีย ยูนิตี้ พาวเวอร์ จำกัด  
ทิศตะวันออก ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ  
ทิศตะวันตก ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด

3. ระบบผลิตไฟฟ้าและความร้อนร่วม (Cogeneration System)

ระบบผลิตกระแสไฟฟ้าของโครงการโรงไฟฟ้าหนองลอก 2 ประกอบด้วย เครื่องกำเนิดไฟฟ้าแบบกังหันก๊าซ (Combustion Turbine Generators: CTGs) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 48.46 เมกะวัตต์ จำนวน 2 ชุด และเครื่องกำเนิดไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine Generator: STG) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 40.09 เมกะวัตต์ จำนวน 1 ชุด

สำหรับกระบวนการผลิตไฟฟ้าเป็นโรงไฟฟ้าที่ผลิตไฟฟ้าจากเครื่องผลิตไฟฟ้าแบบกังหันก๊าซร่วมกับเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ โดยใช้พลังงานความร้อนจากการเผาไหม้ก๊าซธรรมชาติมาเป็นพลังงานหลัก ในการขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซเพื่อผลิตกระแสไฟฟ้า โดยเชื้อเพลิงที่ใช้ในการผลิตกระแสไฟฟ้า คือ ก๊าซธรรมชาติ โดยรับจากบริษัท ปตท. จำกัด (มหาชน) และส่งไปผ่านท่อส่งก๊าซธรรมชาติเพื่อป้อนเข้าสู่เครื่องกังหันก๊าซ (Combustion Turbine) โดยผ่านเข้าไปในห้องเผาไหม้ ไนโตรเจนที่มาจากอากาศจะถูกดูดจากภายนอกเข้าไปในเครื่องอัดอากาศจนความดันสูงขึ้น และส่งต่อไปยังห้องเผาไหม้ ภายในห้องเผาไหม้ก๊าซธรรมชาติและอากาศจะเกิดการเผาไหม้กลายเป็นก๊าซร้อนแล้วไหลไปขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซ เพื่อผลิตกระแสไฟฟ้า ผ่านหม้อแปลงไฟฟ้าจ่ายเข้าสู่ระบบ

ส่วนก๊าซร้อน (Exhaust Gas) ที่ขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซแล้ว ยังมีความร้อนสูงที่อุณหภูมิประมาณ 563 องศาเซลเซียส โดยถูกนำกลับมาป้อนเข้าสู่เครื่องผลิตไอน้ำ (Heat Recovery Steam Generator: HRSG) ซึ่งจะถ่ายเทความร้อนให้แก่ภายในหม้อไอน้ำที่ไอน้ำที่ไอน้ำ 2 ระดับ คือ ไอน้ำแรงดันสูง (High Pressure Steam) 72.35 บาร์ และไอน้ำแรงดันปานกลาง (Intermediate Pressure Steam) ประมาณ 7.48 บาร์ ไอน้ำดังกล่าวจะถูกนำไปหมุนเครื่องกังหันไอน้ำที่ต่อร่วมกับเครื่องผลิตไฟฟ้าอีกชุดหนึ่ง เรียกว่า เครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine) เพื่อผลิตกระแสไฟฟ้าผ่านหม้อแปลงไฟฟ้าก่อนจ่ายเข้าสู่ระบบต่อไป

ส่วนไอน้ำที่ผ่านการใช้งานแล้วจากเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ จะถูกเปลี่ยนสภาพให้กลายเป็นน้ำแล้วนำกลับไปที่กระบวนการผลิตไอน้ำอีกครั้งหนึ่ง โดยนำไอน้ำเข้าเครื่องควบแน่น ซึ่งจะใช้เป็นน้ำตัวหล่อเย็น น้ำร้อนจากเครื่องควบแน่นจะถูกทำให้เย็นลง โดยผ่านหอหล่อเย็น น้ำกลับมาใช้ใหม่ ส่วนน้ำเสียจากกระบวนการผลิตไฟฟ้าจะถูกระบายออกทางท่อของโรงไฟฟ้า โดยจะควบคุมไม่ให้ปริมาณก๊าซออกซิจีนใน (NOx) สูงเกินกว่าค่ามาตรฐานที่กำหนดไว้ด้วยระบบ ควบคุม Dry Low NO<sub>x</sub> Burner



4. การคำนวณค่าอุณหภูมิพื้นผิว (Surface Temperature) จากข้อมูลดาวเทียม LANDSAT-8

4.1 พื้นที่ศึกษา

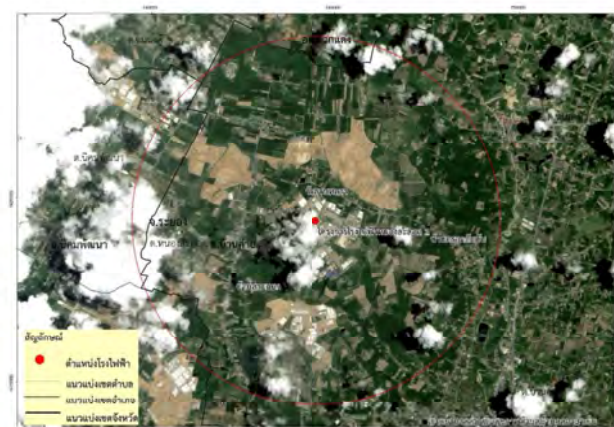
โครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง ตั้งอยู่ในเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ สภาพพื้นที่โดยส่วนใหญ่เป็นที่ราบลุ่มที่ค่อนข้างเป็นลูกคลื่น ทิศเหนือติดต่อกับบริษัท พูเปิร์ก อินดัสเทรียล จำกัด และตำบลแม่ไม้ อำเภอบางพลี จังหวัดนนทบุรี ตำบลบางบุตร และตำบลบ้านค่าย อำเภอบ้านค่าย ทิศใต้ติดต่อกับบริษัท ยูนิตี้ อินดัสเทรียล จำกัด และตำบลหนองบัว ตำบลบางบุตร และตำบลบ้านค่าย อำเภอบ้านค่าย ทิศตะวันออกติดต่อกับบริษัท การเคหะธนบุรี จำกัด และตำบลบ้านค่าย และตำบลหนองเพรางาย อำเภอบ้านค่าย ทิศตะวันตกติดต่อกับบริษัท สยามสตีลคอร์ป จำกัด และตำบลนาข่า และตำบลนิคมพัฒนา อำเภอนิคมพัฒนาสภาพภูมิอากาศ อยู่ภายใต้อิทธิพลของลมมรสุมตะวันออกเฉียงเหนือ และลมมรสุมตะวันตกเฉียงใต้ ทำให้อากาศชุ่มชื้นและมีฝนตกโดยทั่วไป มี 3 ฤดู คือ ฤดูหนาวเริ่มตั้งแต่กลางเดือนตุลาคมถึงกลางเดือนกุมภาพันธ์ ฤดูร้อนประมาณกลางเดือนกุมภาพันธ์ถึงประมาณกลางเดือนพฤษภาคม ฤดูฝน เริ่มกลางเดือนพฤษภาคมถึงกลางเดือนตุลาคม ประชากรส่วนใหญ่ ประกอบอาชีพเกษตรกรรมในพื้นราบ ดังภาพขยายพื้นที่บริเวณโครงการโรงไฟฟ้าภาพที่ 1 และพื้นที่โดยรอบโครงการโรงไฟฟ้าดังกล่าวที่ 2



ภาพที่ 2 ภาพขยายบริเวณโครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง และพื้นที่โดยรอบโครงการโรงไฟฟ้า

(ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 บันทึกภาพ วันที่ 20 สิงหาคม 2568)

ในการศึกษา ได้กำหนดพื้นที่ศึกษาโดยรอบโครงการโรงไฟฟ้าหนองลอก 2 ที่มี 5 กิโลเมตร ดังภาพที่ 2 ซึ่งจะครอบคลุมพื้นที่การประกอบอาชีพที่คนและสิ่งปฏิกูลดินหลายประเภท เช่น พื้นที่การเกษตร พื้นที่ชุมชนเมือง และพื้นที่ประกอบอุตสาหกรรม ซึ่งจะช่วยให้สามารถเปรียบเทียบความแตกต่างของอุณหภูมิพื้นผิวในพื้นที่ที่มีลักษณะแตกต่างกันได้อย่างชัดเจน



ภาพที่ 2 แสดงสภาพพื้นที่ตำบลหนองลอก อำเภอน้ำคาย จังหวัดระยอง และพื้นที่ใกล้เคียง (ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 บันทึกภาพวันที่ 20 สิงหาคม 2568)

## 4.2 ขั้นตอนการศึกษา

### 4.2.1 ข้อมูลดาวเทียมที่ใช้ในการศึกษา

ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, Band 10 (ความยาวคลื่น 10.60 - 11.19 ไมโครเมตร) หรือช่วงคลื่นอินฟราเรดความร้อน (Thermal Infrared) Path/Row ที่ 128/51, เวลาถ่ายภาพประมาณ 10:30 นาฬิกา (เวลาประเทศไทย) มีความละเอียดเชิงพื้นที่ (Spatial resolution) ที่ 100 เมตร ในขณะที่ Band อื่นๆ ได้แก่ band 1-7 และ band 9 จะมีความละเอียดเชิงพื้นที่ 30 เมตร รายละเอียดดังตารางที่ 1 ซึ่งเป็นช่วงคลื่นที่นำมาใช้ในการหาค่าอุณหภูมิพื้นผิว (Land Surface Temperature : LST) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง โดยเลือกข้อมูลจากดาวเทียม LANDSAT-8 ในวันที่ 20 สิงหาคม 2568 เวลาถ่ายภาพประมาณ 10:32:02 นาฬิกา (เวลาประเทศไทย)

เมื่อ  $T_e$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K  
 $L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$   
 $K_2$  และ  $K_1$  คือ ค่า Pre-launch Calibration Constant ซึ่งกำหนดสำหรับข้อมูลจากดาวเทียม LANDSAT-8 TIRS ดังนี้

ตารางที่ 2 รายละเอียดข้อมูล (metadata) สำหรับ TIRS Thermal Band Calibration Constants (U.S. Geological Survey, 2013)

Constant (Unit)	Band 10	Band 11
Radiance Multiplier	0.0003342	0.0003342
Radiance Add	0.1	0.1
$K_1$ (watts/(meter squared * ster * $\mu m$ ))	774.89	480.89
$K_2$ (Kelvin)	1321.08	1201.14

3) ค่าอุณหภูมิในสมการข้างบนจะเป็นค่าที่อ้างอิงจาก back body ดังนั้นเพื่อหาค่าอุณหภูมิพื้นผิวที่แท้จริง จะต้องคำนึงถึงการแผ่รังสีจากสิ่งปฏิกูลพื้นผิว (spectral emissivity according to the natural of land cover) จาก Snyder et al. (1998) ได้เสนอการคำนวณค่า  $\epsilon$  เพื่อปรับแก้อุณหภูมิการปลดปล่อยที่พื้นผิว (emissivity corrected land surface temperature;  $S_L$ ) ซึ่งคำนวณตามความสัมพันธ์ ดังสมการที่ 3 (Artis & Camahan, 1982)

$$S_L = \frac{T_b}{1 + \left( \frac{T_b}{\lambda \times \rho} \right) \ln \epsilon}$$

เมื่อ  $S_L$  คือ ค่าอุณหภูมิพื้นผิว หน่วย Kelvin, K  
 $T_b$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K  
 $\lambda$  คือ ความยาวคลื่นของ Emitted Radiance ซึ่งเลือกใช้ค่ากลางที่  $\lambda = 10.6 \mu m$   
 $\epsilon$  คือ ค่าเฉลี่ยการปลดปล่อยเชิงคลื่น (Spectral Emissivity) จากพื้นผิวแบบต่างๆ ซึ่งค่าที่เลือกใช้ในสมการ สามารถดูได้จากตารางที่ 3 ซึ่งค่าที่ใช้ในการคำนวณ จะใช้  $\epsilon = 0.969$  (Arid bare soil/Urban)  
 $\rho$  มีค่าเท่ากับ  $1.438 \times 10^{-2} \text{ m} \cdot \text{K}$ , เป็นค่าที่ได้มาจากการคำนวณที่  $\rho = h \times \frac{1}{C}$   
เมื่อ  $h$  = ค่าคงที่ของ Planck ( $6.626 \times 10^{-34} \text{ J} \cdot \text{s}$ )  
 $C$  = ความเร็วของแสง (Velocity of Light) ( $2.998 \times 10^8 \text{ m/s}$ )  
 $\sigma$  = ค่าคงที่ของ Stefan Boltzmann ( $1.38 \times 10^{-23} \text{ J/K}$ )

ตารางที่ 1 แสดงรายละเอียด Satellite Sensors ของ LANDSAT-7,8

Landsat-7 ETM+ Bands ( $\mu m$ )			Landsat-8 OLI and TIRS Bands ( $\mu m$ )		
			30 m Coastal/Aerosol	0.435 - 0.451	Band 1
Band 1	30 m Blue	0.441 - 0.514	30 m Blue	0.452 - 0.512	Band 2
Band 2	30 m Green	0.519 - 0.601	30 m Green	0.533 - 0.590	Band 3
Band 3	30 m Red	0.631 - 0.692	30 m Red	0.636 - 0.673	Band 4
Band 4	30 m NIR	0.772 - 0.898	30 m NIR	0.851 - 0.879	Band 5
Band 5	30 m SWIR-1	1.547 - 1.749	30 m SWIR-1	1.566 - 1.651	Band 6
Band 6	60 m TIR	10.31 - 12.36	100 m TIR-1	10.60 - 11.19	Band 10
			100 m TIR-2	11.50 - 12.51	Band 11
Band 7	30 m SWIR-2	2.064 - 2.345	30 m SWIR-2	2.107 - 2.294	Band 7
Band 8	15 m Pan	0.515 - 0.896	15 m Pan	0.503 - 0.676	Band 8
			30 m Cirrus	1.363 - 1.384	Band 9

ข้อมูลจากดาวเทียม LANDSAT-8 ที่ได้รับข้อมูลจากสถานีรับสัญญาณดาวเทียมที่นาซาวิเคราะห์ เป็นข้อมูล level 1 ซึ่งผ่านการประมวลการปรับแก้ทาง Radiometric และ Geometric Correction อยู่ในลักษณะข้อมูล GeoTIFF Format

### 4.2.2 วิธีการคำนวณค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

ข้อมูลดาวเทียม LANDSAT-8 TM, Path/Row ที่ 128/51 เลือกเฉพาะช่วง band 10 ที่ถูกปรับแก้ความคลาดเคลื่อนทางภูมิศาสตร์แล้ว จะถูกนำมาคำนวณ เพื่อหาค่าอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง ดังนี้รายละเอียดตามขั้นตอนดังนี้

1) เปลี่ยนค่า Digital Number (DN) ของข้อมูลจากดาวเทียม LANDSAT-8 TIRS. Thermal Infrared Sensor (band 10) ไปเป็นค่า Spectral Radiance ดังสมการที่ 1 (USGS, 2013):

$$L_\lambda = 0.00033422 \times DN + 0.1$$

เมื่อ  $L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$

DN คือ ค่า Digital Number ของข้อมูล band 10 หน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$

2) เปลี่ยนค่า Spectral Radiance ไปเป็นค่า Brightness Temperature,  $T_b$  (หรือ Black Body Temperature) ตามความสัมพันธ์ ดังสมการที่ 2 (LANDSAT Project Science Office, 2002)

$$T_b = \frac{K_2}{\ln \left( \frac{K_1}{L_\lambda} + 1 \right)}$$

ตารางที่ 3 ค่าเฉลี่ยตามฤดูกาลของการแผ่รังสีจากสิ่งปฏิกูลพื้นผิวแต่ละชนิด สำหรับข้อมูลดาวเทียม MODIS band 31 and 32 (Snyder et al., 1998)

Emissivity Classes	Mean Emissivity ( $\epsilon$ )					
	Green Season			Senescent Season		
	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average
NeedleForest	0.989	0.991	0.990	0.986	0.988	0.987
Broadleaf Forest	0.987	0.990	0.989	0.968	0.971	0.970
Woody Savanna	0.988	0.991	0.990	0.975	0.978	0.977
Grass Savanna	0.987	0.991	0.989	0.973	0.975	0.974
Sparse Shrubs	0.972	0.975	0.974	0.970	0.976	0.973
Water/Wetland	0.991	0.986	0.989	0.991	0.986	0.989
Organic Bare Soil	0.977	0.982	0.980	0.977	0.982	0.980
Arid Bare Soil/ Urban	0.966	0.972	0.969	0.966	0.972	0.969

4) คำนวณหาค่าอุณหภูมิในหน่วยเซลเซียส จากความสัมพันธ์  
Centigrade Temperature ( $^{\circ}C$ ) = Absolute Temperature ( $^{\circ}K$ ) - 273.15

### 5. ผลการศึกษาค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

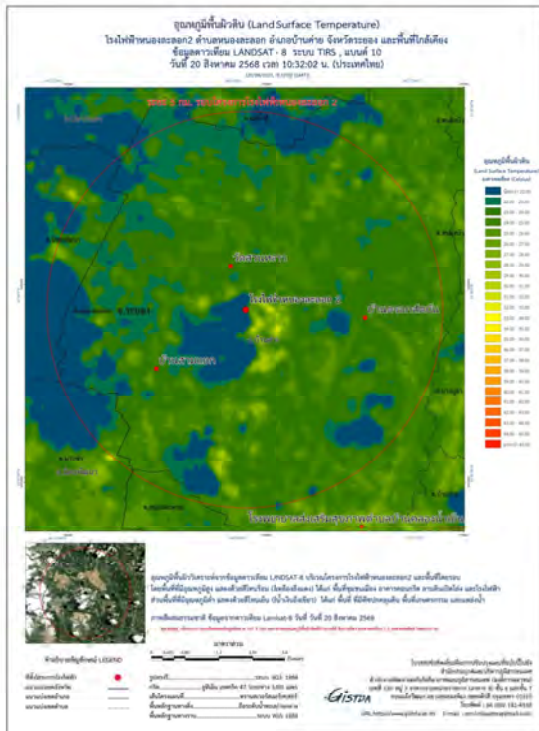
#### 5.1 ข้อมูลอุณหภูมิพื้นผิว จาก LANDSAT-8

ข้อมูลอุณหภูมิพื้นผิวที่มีหน่วยเป็นองศาเซลเซียส ซึ่งได้จากการคำนวณในช่วงต้น จะถูกนำมาหาค่าค่าสีของค่าช่วงอุณหภูมิ โดยกำหนดค่าอันตรภาคชั้น (Class Interval) ของอุณหภูมิแต่ละช่วงให้เท่ากับ 1 องศาเซลเซียส ดังแสดงในภาพที่ 3

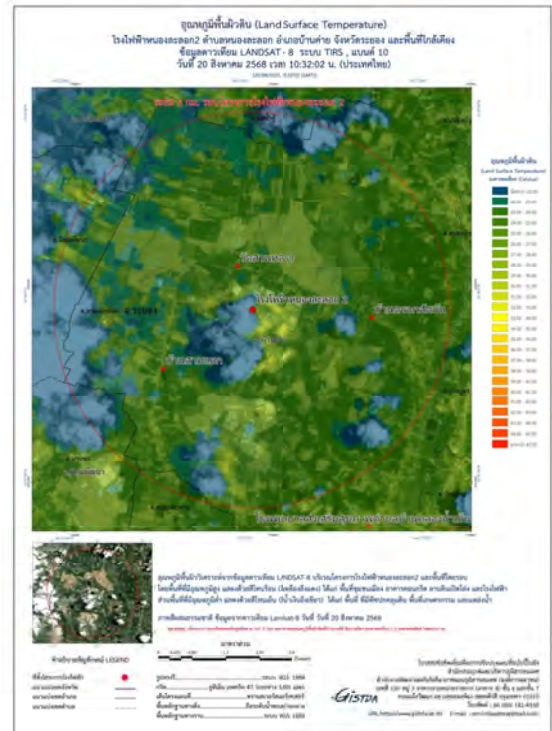


ภาพที่ 3 แสดงช่วงอันตรภาคชั้น (Class Interval) และสีที่แทนค่าอุณหภูมิแต่ละช่วง

อุณหภูมิพื้นผิว (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง วันที่ 20 สิงหาคม 2568 ดังภาพที่ 4-5



ภาพที่ 4 อุณหภูมิพื้นผิวดิน (Land Surface Temperature) โครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง จากข้อมูลดาวเทียม LANDSAT-8 TIRS, band 10 บันทึกภาพเมื่อวันที่ 20 สิงหาคม 2568 เวลา 10:32:02 น.



ภาพที่ 5 อุณหภูมิพื้นผิวดิน (Land Surface Temperature) ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, band 10 บันทึกภาพเมื่อวันที่ 20 สิงหาคม 2568 ข้อมูลกับภาพภาพถ่ายทางอากาศ ข้อมูลจากดาวเทียม LANDSAT-8 บันทึกภาพวันที่ 20 สิงหาคม 2568

จากภาพอุณหภูมิพื้นผิวดิน (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง ในภาพที่ 4-5 แสดงความแตกต่างของอุณหภูมิพื้นผิวดินที่ขึ้นอยู่กับการใช้ประโยชน์ที่ดินและสิ่งปกคลุมดินได้อย่างชัดเจน จากภาพจะเห็นได้ว่า

ในวันที่ 20 สิงหาคม 2568 บริเวณพื้นที่ศึกษาโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง มีค่าอุณหภูมิพื้นผิวดินอยู่ระหว่าง 21.2 – 31.6 องศาเซลเซียส โดยพื้นที่เกษตรกรรม แหล่งน้ำ พื้นที่ชุมชน จะมีค่าอุณหภูมิพื้นผิวดินจากข้อมูลดาวเทียม อยู่ระหว่าง 21.2 – 25.0 องศาเซลเซียส

ส่วนบริเวณโรงงานอุตสาหกรรม แหล่งชุมชน หรือพื้นที่ที่มีสิ่งปกคลุมเป็นคอนกรีต ไม่ ลังเกส พื้นดินเปิดโล่ง และพื้นที่แนวเขตวัดทางการเกษตร จะมีค่าอุณหภูมิพื้นผิวดินสูงกว่าพื้นที่ข้างต้น คือมีค่าอยู่ที่ประมาณ 22.0 – 31.6 องศาเซลเซียส

โดยพื้นที่โครงการโรงไฟฟ้าหนองลอก 2 มีค่าอุณหภูมิอยู่ระหว่าง 22.2 – 25.4 องศาเซลเซียส

จากผลการศึกษาดังกล่าว เมื่อนำค่าอุณหภูมิพื้นผิวดินที่ได้จากการวิเคราะห์โดยข้อมูลจากดาวเทียม LANDSAT-8 TIRS, แบนด์ 10 เปรียบเทียบกับค่าอุณหภูมิจากสถานี อบต.ท่าแขก อ.เมืองสระแก้ว จ.สระแก้ว ของสถาบันสารสนเทศทรัพยากรน้ำ (องค์การมหาชน) ในช่วงเวลาใกล้เคียง พบว่าค่าอุณหภูมิพื้นผิวดินได้จากการวิเคราะห์โดยข้อมูลจากดาวเทียมค่าอุณหภูมิของสถานีตรวจวัดอากาศ ประมาณ 2 องศาเซลเซียส ดังตารางที่ 4

ตารางที่ 4 แสดงค่าอุณหภูมิ (องศาเซลเซียส) จากสถานี อบต.ท่าแขก ของสถาบันสารสนเทศทรัพยากรน้ำ (องค์การมหาชน)

สถานี/จังหวัด	วัน/เดือน/ปี	ค่าอุณหภูมิ
อบต. ท่าแขก/สระแก้ว	17/06/2025 10:00 น.	26.8
อบต. ท่าแขก/สระแก้ว	18/06/2025 10:00 น.	28.9
อบต. ท่าแขก/สระแก้ว	19/06/2025 10:00 น.	28.0
อบต. ท่าแขก/สระแก้ว	20/06/2025 10:00 น.	29.0
อบต. ท่าแขก/สระแก้ว	21/06/2025 10:00 น.	30.5
อบต. ท่าแขก/สระแก้ว	22/06/2025 10:00 น.	28.0
อบต. ท่าแขก/สระแก้ว	23/06/2025 10:00 น.	27.0

หมายเหตุ : อุณหภูมิรายชั่วโมงจากสถานีโทรมาตรอัตโนมัติ โดยชุดตรวจวัดอากาศแบบ Active ประกอบด้วย Digital Sensors และ Solar Radiation Shield สหกรณ์การเกษตรวังน้ำเย็นวิทยาคม และค่าความชื้นสัมพัทธ์

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สถาบันสารสนเทศทรัพยากรน้ำและการเกษตร (องค์การมหาชน) คลังข้อมูลน้ำและภูมิอากาศ แหล่งที่มา : <https://www.thaiwater.net/weather/weather-station>

## รายงาน

### การหาอุณหภูมิพื้นผิว (Land Surface Temperature) โดยใช้ข้อมูลจากดาวเทียม LANDSAT-8 ระบบ TIRS บริเวณโครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง 15 พฤศจิกายน 2568



โดย  
ฝ่ายจัดการภัยพิบัติ

สำนักประยุกต์และพัฒนาภูมิสารสนเทศ

สำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน)



## อุณหภูมิพื้นผิว (Land Surface Temperature)

### 1. ความเป็นมาของการศึกษา

เนื่องจากสำนักงานพัฒนาเทคโนโลยีอวกาศและภูมิสารสนเทศ (องค์การมหาชน): สทอภ. ได้รับการติดต่อจากบริษัท เอลแอล แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ให้ดำเนินการวิเคราะห์และประมวลผลคลื่นความร้อน โดยแสดงเป็นอุณหภูมิพื้นผิว (Land surface temperature) หน่วยเป็นองศาเซลเซียส บริเวณโครงการโรงไฟฟ้าหนองลอก 2 เพื่อแสดงความแตกต่างระหว่างอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าและพื้นที่ใกล้เคียงโดยรอบ ซึ่งส่วนใหญ่เป็นพื้นที่เกษตรกรรม การเกษตรกรรม และแหล่งชุมชน ทั้งนี้เพื่อใช้เป็นข้อมูลพื้นฐานของอุณหภูมิพื้นผิวช่วงฤดูหนาว (กลางเดือนพฤศจิกายน)

### 2. โครงการโรงไฟฟ้าหนองลอก 2

โครงการโรงไฟฟ้าหนองลอก 2 ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด (มหาชน) ตั้งอยู่ในเขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อ เขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง เป็นบริษัทในกลุ่มบริษัท กัลฟ์ ที่ก่อตั้งเพื่อดำเนินธุรกิจเกี่ยวกับการผลิตไฟฟ้า โดยมีวัตถุประสงค์เพื่อผลิตและจำหน่ายไฟฟ้าให้กับการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมในเขตประกอบการฯ รวมทั้งผลิตและจำหน่ายไอน้ำ หรือนำเข้าให้กับโรงงานในเขตประกอบการฯ โดยมีลักษณะของกระบวนการผลิตแบบ "โคเจนเนอเรชัน" (Co-generation system) มีกำลังการผลิตไฟฟ้าสูงสุดประมาณ 137 เมกะวัตต์ ไอน้ำสูงสุดประมาณ 30 ตันต่อชั่วโมง หรือนำเข้าสูงสุดประมาณ 5,500 ตันความเย็น

#### 2.1 ความเป็นมา

โครงการโรงไฟฟ้าหนองลอก 2 ดำเนินการโดยบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด เพื่อผลิตกระแสไฟฟ้าเพิ่มเติมรองรับความต้องการใช้กระแสไฟฟ้าในพื้นที่เขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ ให้เพียงพอ โดยการจำหน่ายให้กับการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และโรงงานอุตสาหกรรมต่างๆ ภายในเขตประกอบการอุตสาหกรรมฯ นอกจากนี้ผลิตไอน้ำในรูปของไอน้ำ (Steam) ที่ได้จากโครงการจะมีการส่งจำหน่ายให้กับโรงงานภายในเขตอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ เช่นกัน

ทั้งนี้โครงการมีการบูรณาการการผลิตแบบพลังงานร่วม หรือ โคเจนเนอเรชัน ซึ่งประกอบด้วยอุปกรณ์สำคัญดังนี้ 1) เครื่องกำเนิดไฟฟ้ากังหันก๊าซ (Combustion Turbine Generators : CTGs) จำนวน 2 เครื่อง 2) หน่วยผลิตไอน้ำ (Heat Recovery Steam Generators : HRSGs) 3) เครื่องกำเนิดไฟฟ้ากังหันไอน้ำ (Steam Turbine Generator : STG) 1 ชุด โดยจะได้ผลิตไอน้ำ 3 ชนิด ได้แก่ กระแสไฟฟ้า ไอน้ำ และน้ำเย็น โดยสามารถผลิตและจำหน่ายให้กับโรงงานอุตสาหกรรมภายในสวนอุตสาหกรรมฯ ซึ่งกระแสไฟฟ้าจะถูกส่งผ่านระบบสายส่ง ขนาด 115 และ 22 กิโลโวลต์ สำหรับเชื้อเพลิงที่ใช้ในการผลิตคือก๊าซธรรมชาติจากบริษัท ปตท. จำกัด (มหาชน) โดยใช้งบประมาณเชื้อเพลิงประมาณ 22.16 ล้านบาทต่อวัน ส่วนค่าใช้จ่ายโครงการมีความต้องการใช้เงินประมาณ 4,208 ล้านบาทต่อวัน โดยรับอุตสาหกรรมจากโรงผลิตน้ำ ของเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์



### 4. การคำนวณค่าอุณหภูมิพื้นผิว (Surface Temperature) จากข้อมูลดาวเทียม LANDSAT-8

#### 4.1 พื้นที่ศึกษา

โครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง ตั้งอยู่ในเขตประกอบการอุตสาหกรรมเหมราชระยอง อินดัสเทรียล แลนด์ สภาพพื้นที่โดยส่วนใหญ่เป็นที่ราบลุ่มเป็นพื้นที่ดอนเป็นลูกคลื่น พื้นที่นี้ติดต่อกับบริษัท ปตท. จำกัด (มหาชน) และตำบลหนองบัว ตำบลบางบุตร และตำบลบ้านค่าย อำเภอบ้านค่าย จังหวัดระยอง โดยพื้นที่ศึกษาจะครอบคลุมพื้นที่โครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่โดยรอบโครงการโรงไฟฟ้าหนองลอก 2



ภาพที่ 2 ภาพขยายบริเวณโครงการโรงไฟฟ้าหนองลอก 2 ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง และพื้นที่โดยรอบโครงการโรงไฟฟ้า (ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 บันทึกภาพ วันที่ 15 พฤศจิกายน 2568)

### 2.2 ที่ตั้ง

โครงการโรงไฟฟ้าหนองลอก 2 (โครงการฯ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด มีพื้นที่ขนาดประมาณ 30 ไร่ ตั้งอยู่เลขที่ 399 หมู่ 3 เขตประกอบการอุตสาหกรรมตำบลสิริเวียง ระยอง (เดิมชื่อเขตประกอบการอุตสาหกรรมเหมราชระยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง โดยอาณาเขตติดต่อพื้นที่โครงการมีรายละเอียด ดังนี้

- ทิศเหนือ ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ
- ทิศใต้ ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด และบริษัท เอเซีย ยูนิตี้ พาวเวอร์ จำกัด
- ทิศตะวันออก ติดกับ เส้นทางคมนาคมภายในเขตประกอบการฯ
- ทิศตะวันตก ติดกับ พื้นที่โรงงานของบริษัท อินดัสเทรียล ประเทศไทย จำกัด

### 3. ระบบผลิตไฟฟ้าและความร้อนร่วม (Cogeneration System)

ระบบผลิตกระแสไฟฟ้าของโครงการโรงไฟฟ้าหนองลอก 2 ประกอบด้วย เครื่องกำเนิดไฟฟ้าแบบกังหันก๊าซ (Combustion Turbine Generators: CTGs) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 48.46 เมกะวัตต์ จำนวน 2 ชุด และเครื่องกำเนิดไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine Generator: STG) ขนาดกำลังการผลิตไฟฟ้าสูงสุด 40.09 เมกะวัตต์ จำนวน 1 ชุด

สำหรับกระบวนการผลิตไฟฟ้าเป็นโรงไฟฟ้าที่ผลิตไฟฟ้าจากเครื่องผลิตไฟฟ้าแบบกังหันก๊าซร่วมกับเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ โดยใช้พลังงานความร้อนจากการเผาไหม้ก๊าซธรรมชาติเป็นพลังงานหลัก ในการขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซเพื่อผลิตกระแสไฟฟ้า โดยเชื้อเพลิงที่ใช้ในการผลิตกระแสไฟฟ้า คือ ก๊าซธรรมชาติ โดยรับจากบริษัท ปตท. จำกัด (มหาชน) และส่งไปผ่านท่อส่งก๊าซธรรมชาติเพื่อป้อนเข้าสู่เครื่องกังหันก๊าซ (Combustion Turbine) โดยผ่านเข้าไปในห้องเผาไหม้ โดยขณะเดียวกันอากาศจะถูกดูดจากภายนอกเข้าไปในเครื่องอัดอากาศจนความดันสูงขึ้น และส่งต่อไปยังห้องเผาไหม้ ภายในห้องเผาไหม้ก๊าซธรรมชาติและอากาศจะเกิดการเผาไหม้กลายเป็นก๊าซร้อนแล้วไหลไปขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซ เพื่อผลิตกระแสไฟฟ้า ผ่านหม้อแปลงไฟฟ้าจ่ายเข้าสู่ระบบ

ส่วนก๊าซร้อน (Exhaust Gas) ที่ขับเคลื่อนเครื่องผลิตไฟฟ้าแบบกังหันก๊าซแล้ว ยังมีความร้อนสูงที่อุณหภูมิประมาณ 563 องศาเซลเซียส โดยถูกนำกลับมาป้อนเข้าสู่เครื่องผลิตไอน้ำ (Heat Recovery Steam Generator: HRSG) ซึ่งจะถ่ายเทความร้อนให้แก่ไอน้ำในท่อไอน้ำที่มีแรงดัน 2 ระดับ คือ ไอน้ำแรงดันสูง (High Pressure Steam) 72.35 บาร์ และไอน้ำแรงดันปานกลาง (Intermediate Pressure Steam) ประมาณ 7.48 บาร์ ไอน้ำดังกล่าวจะถูกนำไปหมุนเครื่องกังหันไอน้ำที่ต่อร่วมกับเครื่องผลิตไฟฟ้าอีกชุดหนึ่ง เรียกว่า เครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ (Steam Turbine) เพื่อผลิตกระแสไฟฟ้าผ่านหม้อแปลงไฟฟ้าก่อนจ่ายเข้าสู่ระบบต่อไป

ส่วนไอน้ำที่ผ่านการใช้งานแล้วจากเครื่องผลิตไฟฟ้าแบบกังหันไอน้ำ จะถูกเปลี่ยนสภาพให้กลายเป็นน้ำแล้วนำกลับไปที่กระบวนการผลิตไอน้ำอีกครั้งหนึ่ง โดยผ่านไอน้ำเข้าเครื่องควบแน่น ซึ่งจะใช้น้ำเป็นตัวหล่อเย็น น้ำร้อนจากเครื่องควบแน่นจะถูกทำให้เย็นลง โดยผ่านหอหล่อเย็น น้ำกลับมาใช้ใหม่ ส่วนน้ำเสียจากกระบวนการผลิตไฟฟ้าจะถูกระบายออกทางท่อของโรงไฟฟ้า โดยควบคุมไม่ให้มีปริมาณก๊าซออกซิจีนไนโตรเจน (NOx) สูงเกินกว่าค่ามาตรฐานที่กำหนดไว้ด้วยระบบ ควบคุม Dry Low NO<sub>x</sub> Burner

ในการศึกษา ได้กำหนดพื้นที่ศึกษาโดยรอบโครงการโรงไฟฟ้าหนองลอก 2 รัศมี 5 กิโลเมตร ดังภาพที่ 2 ซึ่งจะครอบคลุมพื้นที่การประกอบอาชีพที่เด่นชัดและสิ่งปลูกสร้างหลายประเภท เช่น พื้นที่การเกษตร พื้นที่ชุมชนเมือง และพื้นที่ประกอบอุตสาหกรรม ซึ่งจะช่วยให้สามารถเปรียบเทียบความแตกต่างของอุณหภูมิพื้นผิวในพื้นที่ที่มีลักษณะแตกต่างกันได้อย่างชัดเจน



ภาพที่ 2 แสดงสภาพพื้นที่ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง และพื้นที่ใกล้เคียง (ข้อมูลจากดาวเทียม LANDSAT-8 OLI, band 432 วันที่ถ่ายภาพวันที่ 15 พฤศจิกายน 2568)

## 4.2 ขั้นตอนการศึกษา

### 4.2.1 ข้อมูลดาวเทียมที่ใช้ในการศึกษา

ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, Band 10 (ความยาวคลื่น 10.60 -11.19 ไมโครเมตร) หรือช่วงคลื่นอินฟราเรดความร้อน (Thermal Infrared) Path/Row ที่ 128/51, เวลาถ่ายภาพประมาณ 10:30 นาฬิกา (เวลาประเทศไทย) มีความละเอียดเชิงพื้นที่ (Spatial resolution) ที่ 100 เมตร ในขณะที่ Band อื่นๆ ได้แก่ band 1-7 และ band 9 จะมีความละเอียดเชิงพื้นที่ 30 เมตร รายละเอียดดังตารางที่ 1 ซึ่งเป็นช่วงคลื่นที่นำมาใช้ในการหาค่าอุณหภูมิพื้นผิว (Land Surface Temperature : LST) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง โดยเลือกข้อมูลจากดาวเทียม LANDSAT-8 ในวันที่ 15 พฤศจิกายน 2568 เวลาถ่ายภาพประมาณ 10:38:26 นาฬิกา (เวลาประเทศไทย)

เมื่อ  $T_e$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K

$L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$

$K_2$  และ  $K_1$  คือ ค่า Pre-launch Calibration Constant ซึ่งกำหนดสำหรับข้อมูลจากดาวเทียม LANDSAT-8 TIRS ดังนี้

ตารางที่ 2 รายละเอียดข้อมูล (metadata) สำหรับ TIRS Thermal Band Calibration Constants (U.S. Geological Survey, 2013)

Constant (Unit)	Band 10	Band 11
Radiance Multiplier	0.0003342	0.0003342
Radiance Add	0.1	0.1
$K_1$ (watts/meter squared * ster * $\mu m$ )	774.89	480.89
$K_2$ (Kelvin)	1321.08	1201.14

3) ค่าอุณหภูมิในสมการข้างบนจะเป็นค่าที่อ้างอิงจาก back body ดังนั้นเพื่อหาค่าอุณหภูมิพื้นผิวที่แท้จริง จะต้องคำนึงถึงการแผ่รังสีจากสิ่งปกคลุมพื้นผิว (spectral emissivity according to the natural of land cover) จาก Snyder et al. (1998) ได้เสนอการคำนวณค่า เพื่อปรับแก้อุณหภูมิการปลดปล่อยที่พื้นผิว (emissivity corrected land surface temperature;  $S_L$ ) ซึ่งคำนวณตามความสัมพันธ์ ดังสมการที่ 3 (Artis & Camahan, 1982)

$$\text{สมการที่ 3} \quad S_L = \frac{T_b}{1 + \left( \frac{T_b}{\lambda \times T_p} \right) \ln \epsilon}$$

เมื่อ  $S_L$  คือ ค่าอุณหภูมิพื้นผิว หน่วย Kelvin, K

$T_b$  คือ ค่า Effective at-Satellite Temperature หน่วย Kelvin, K

$\lambda$  คือ ความยาวคลื่นของ Emitted Radiance ซึ่งเลือกใช้ค่ากลางที่  $\lambda = 10.6 \mu m$

$\epsilon$  คือ ค่าเฉลี่ยการปลดปล่อยเชิงคลื่น (Spectral Emissivity) จากพื้นผิวแบบต่างๆ ซึ่งค่าที่เลือกใช้ในสมการ สามารถดูได้จากตารางที่ 3 ซึ่งค่าที่ใช้ในการคำนวณ จะใช้  $\epsilon = 0.969$  (Arid bare soil/Urban)

$p$  มีค่าเท่ากับ  $1.438 \times 10^{-2} \text{ m} \cdot \text{K}$ , เป็นค่าที่ได้มาจากการคำนวณที่  $p = h \times c / \sigma$

เมื่อ  $h$  = ค่าคงที่ของ Planck ( $6.626 \times 10^{-34} \text{ J} \cdot \text{s}$ )

$c$  = ความเร็วของแสง (Velocity of Light) ( $2.998 \times 10^8 \text{ m/s}$ )

$\sigma$  = ค่าคงที่ของ Stefan Boltzmann ( $1.38 \times 10^{-23} \text{ J/K}$ )

## ตารางที่ 1 แสดงรายละเอียด Satellite Sensors ของ LANDSAT-7,8

Landsat-7 ETM+ Bands ( $\mu m$ )			Landsat-8 OLI and TIRS Bands ( $\mu m$ )		
			30 m Coastal/Aerosol	0.435 - 0.451	Band 1
Band 1	30 m Blue	0.441 - 0.514	30 m Blue	0.452 - 0.512	Band 2
Band 2	30 m Green	0.519 - 0.601	30 m Green	0.533 - 0.590	Band 3
Band 3	30 m Red	0.631 - 0.692	30 m Red	0.636 - 0.673	Band 4
Band 4	30 m NIR	0.772 - 0.898	30 m NIR	0.851 - 0.879	Band 5
Band 5	30 m SWIR-1	1.547 - 1.749	30 m SWIR-1	1.566 - 1.651	Band 6
Band 6	60 m TIR	10.31 - 12.36	100 m TIR-1	10.60 - 11.19	Band 10
			100 m TIR-2	11.50 - 12.51	Band 11
Band 7	30 m SWIR-2	2.064 - 2.345	30 m SWIR-2	2.107 - 2.294	Band 7
Band 8	15 m Pan	0.515 - 0.896	15 m Pan	0.503 - 0.676	Band 8
			30 m Cirrus	1.363 - 1.384	Band 9

ข้อมูลจากดาวเทียม LANDSAT-8 ที่ได้รับข้อมูลจากสถานีรับสัญญาณดาวเทียมที่นาซาวิเคราะห์ เป็นข้อมูล level 1 ซึ่งผ่านการปรับแก้ทาง Radiometric และ Geometric Correction อยู่ในลักษณะข้อมูล GeoTIFF Format

### 4.2.2 วิธีการคำนวณค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

ข้อมูลดาวเทียม LANDSAT-8 TM, Path/Row ที่ 128/51 เลือกเฉพาะช่วง band 10 ที่ถูกปรับแก้ความคลาดเคลื่อนทางภูมิศาสตร์แล้ว จะนำมาคำนวณ เพื่อหาค่าอุณหภูมิพื้นผิวบริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง ดังนี้รายละเอียดตามขั้นตอนดังนี้

1) เปลี่ยนค่า Digital Number (DN) ของข้อมูลจากดาวเทียม LANDSAT-8 TIRS, Thermal Infrared Sensor (band 10) ไปเป็นค่า Spectral Radiance ดังสมการที่ 1 (USGS, 2013):

$$\text{สมการที่ 1} \quad L_\lambda = 0.00033422 \times DN + 0.1$$

เมื่อ  $L_\lambda$  คือ ค่า Spectral Radiance มีหน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$

DN คือ ค่า Digital Number ของข้อมูล band 10 หน่วยเป็น  $W/(m^2 \cdot \text{ster} \cdot \mu m)$

2) เปลี่ยนค่า Spectral Radiance ไปเป็นค่า Brightness Temperature,  $T_b$  (หรือ Black Body Temperature) ตามความสัมพันธ์ ดังสมการที่ 2 (LANDSAT Project Science Office, 2002)

$$\text{สมการที่ 2} \quad T_b = \frac{K_2}{\ln \left( \frac{K_1}{L_\lambda} + 1 \right)}$$

ตารางที่ 3 ค่าเฉลี่ยตามฤดูกาลของการแผ่รังสีจากสิ่งปกคลุมพื้นผิวแต่ละชนิด สำหรับข้อมูลดาวเทียม MODIS band 31 and 32 (Snyder et al., 1998)

Emissivity Classes	Mean Emissivity ( $\epsilon$ )					
	Green Season			Senescent Season		
	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average	10.8-11.3 $\mu m$	11.8-12.3 $\mu m$	Average
NeedleForest	0.989	0.991	0.990	0.986	0.988	0.987
Broadleaf Forest	0.987	0.990	0.989	0.968	0.971	0.970
Woody Savanna	0.988	0.991	0.990	0.975	0.978	0.977
Grass Savanna	0.987	0.991	0.989	0.973	0.975	0.974
Sparse Shrubs	0.972	0.975	0.974	0.970	0.976	0.973
Water/Wetland	0.991	0.986	0.989	0.991	0.986	0.989
Organic Bare Soil	0.977	0.982	0.980	0.977	0.982	0.980
Arid Bare Soil/ Urban	0.966	0.972	0.969	0.966	0.972	0.969

4) คำนวณหาค่าอุณหภูมิในหน่วยเซลเซียส จากความสัมพันธ์

$$\text{Centigrade Temperature (} ^\circ \text{C)} = \text{Absolute Temperature (} ^\circ \text{K)} - 273.15$$

## 5. ผลการศึกษาค่าอุณหภูมิพื้นผิว (Land Surface Temperature)

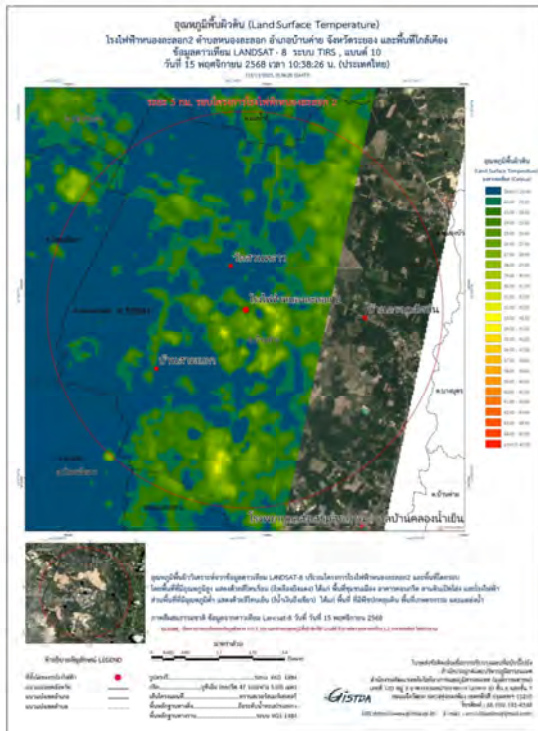
### 5.1 ข้อมูลอุณหภูมิพื้นผิว จาก LANDSAT-8

ข้อมูลอุณหภูมิพื้นผิวที่มีหน่วยเป็นองศาเซลเซียส ซึ่งได้จากการคำนวณในช่วงต้น จะถูกนำมากำหนดค่าสีของค่าช่วงอุณหภูมิ โดยกำหนดค่าอัตราคาบ (Class Interval) ของอุณหภูมิแต่ละช่วงให้เท่ากับ 1 องศาเซลเซียส ดังแสดงในภาพที่ 3

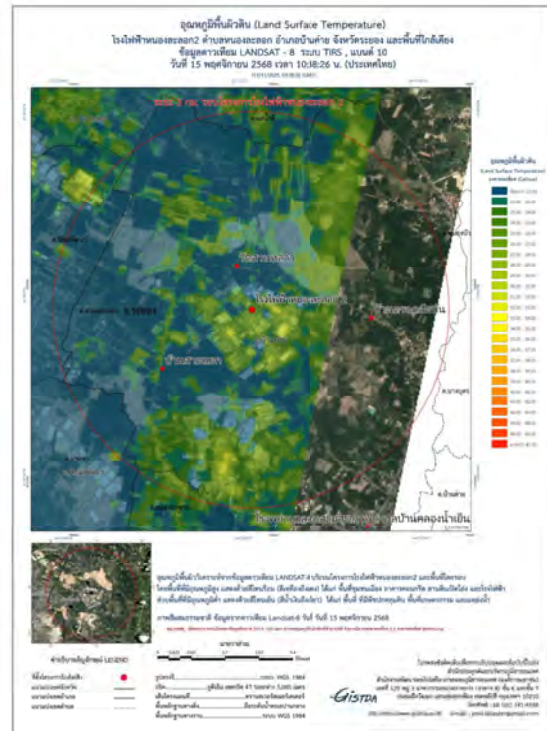


ภาพที่ 3 แสดงช่วงอัตราคาบ (Class Interval) และสีที่แทนค่าอุณหภูมิแต่ละช่วง

อุณหภูมิพื้นผิว (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองลอก 2 และพื้นที่ใกล้เคียง วันที่ 15 พฤศจิกายน 2568 ดังภาพที่ 4-5



ภาพที่ 4 อุณหภูมิพื้นผิวพื้น (Land Surface Temperature) โครงการโรงไฟฟ้าหนองละลอก 2 และพื้นที่ใกล้เคียง จากข้อมูลดาวเทียม LANDSAT-8 TIRS, band 10 วันที่ 15 พฤศจิกายน 2568 เวลา 10:38:26 น.



ภาพที่ 5 อุณหภูมิพื้นผิวพื้น (Land Surface Temperature) ข้อมูลจากดาวเทียม LANDSAT-8 TIRS, band 10 วันที่ 15 พฤศจิกายน 2568 ช้อนทับกับภาพภาพถ่ายทางอากาศ ข้อมูลจากดาวเทียม LANDSAT-8 วันที่ 15 พฤศจิกายน 2568

จากภาพอุณหภูมิพื้นผิวพื้น (Land Surface Temperature) บริเวณโครงการโรงไฟฟ้าหนองละลอก 2 และพื้นที่ใกล้เคียง ในภาพที่ 4-5 แสดงความแตกต่างของอุณหภูมิพื้นผิวพื้นที่ขึ้นอยู่กับการใช้ประโยชน์ที่ดินและสิ่งปลูกสร้าง โดยจะเห็นได้ว่า

ในวันที่ 15 พฤศจิกายน 2568 บริเวณพื้นที่ศึกษาโครงการโรงไฟฟ้าหนองละลอก 2 และพื้นที่ใกล้เคียง มีค่าอุณหภูมิพื้นผิวพื้นระหว่าง 13.0 – 32.0 องศาเซลเซียส โดยพื้นที่เกษตรกรรม แหล่งน้ำ พื้นที่ชุมชน จะมีค่าอุณหภูมิพื้นผิวพื้นจากข้อมูลดาวเทียม อยู่ระหว่าง 16.8 – 25.0 องศาเซลเซียส

ส่วนบริเวณโรงงานอุตสาหกรรม แหล่งชุมชน หรือพื้นที่ที่มีพื้นผิวสิ่งปลูกสร้างเป็นคอนกรีต ไม่ ลังเกส พื้นดินเปิด และพื้นที่ในเขตอุตสาหกรรม จะมามีค่าอุณหภูมิพื้นผิวพื้นสูงกว่าพื้นที่ข้างต้น ทั้งนี้พบว่าหลังคาอาคารบางแห่งมีอุณหภูมิค่า คือมีค่าอยู่ประมาณ 13.0 – 32.0 องศาเซลเซียส

โดยพื้นที่โครงการโรงไฟฟ้าหนองละลอก 2 มีค่าอุณหภูมิอยู่ระหว่าง 23.0 – 25.2 องศาเซลเซียส

จากผลการศึกษาดังกล่าว เมื่อนำค่าอุณหภูมิพื้นผิวพื้นที่ได้จากดาวเทียมวิเคราะห์โดยข้อมูลจากดาวเทียม LANDSAT-8 TIRS, band 10 เปรียบเทียบกับค่าอุณหภูมิของกรมอุตุนิยมวิทยาจากสถานีพิบูลย์ จังหวัดชลบุรี ในช่วงเวลาใกล้เคียงกัน พบว่าค่าอุณหภูมิพื้นผิวพื้นที่ได้จากดาวเทียมวิเคราะห์โดยข้อมูลจากดาวเทียมต่ำกว่าอุณหภูมิของกรมอุตุนิยมวิทยาประมาณ 1 องศาเซลเซียส ดังตารางที่ 4

ตารางที่ 4 แสดงค่าอุณหภูมิ (องศาเซลเซียส) ของกรมอุตุนิยมวิทยา ณ สถานีพิบูลย์ จังหวัดชลบุรี

สถานี/จังหวัด	วัน/เดือน/ปี	ค่าอุณหภูมิ
พิบูลย์/ชลบุรี	12/11/2025 10:00 น.	29.2
พิบูลย์/ชลบุรี	13/11/2025 07:00 น.	26.6
พิบูลย์/ชลบุรี	14/11/2025 10:00 น.	28.5
พิบูลย์/ชลบุรี	15/11/2025 10:00 น.	28
พิบูลย์/ชลบุรี	16/11/2025 10:00 น.	27.4
พิบูลย์/ชลบุรี	17/11/2025 10:00 น.	26.7
พิบูลย์/ชลบุรี	18/11/2025 10:00 น.	26.7

หมายเหตุ : \* อุณหภูมิคุ้มแห้ง : Dry-bulb temperature อุณหภูมิที่อ่านได้จากเทอร์โมมิเตอร์คุ้มแห้งหรือเทอร์โมมิเตอร์ธรรมดา ซึ่งติดตั้งอยู่ในที่ๆ มีอากาศถ่ายเทตามธรรมชาติ และอยู่ในเงาไม่ถูกรังสีจากดวงอาทิตย์โดยตรง

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สถาบันสารสนเทศทรัพยากรน้ำและการเกษตร (องค์การมหาชน) คลังข้อมูลน้ำและภูมิอากาศ แหล่งที่มา : <https://www.thaiwater.net/weather/weather-station>

## ภาคผนวก ค-5

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ผลการติดตามคุณภาพน้ำทิ้งแบบต่อเนื่อง  
(Online Monitoring)

Start	1-Jul-25 12:00 AM
End	31-Dec-25 11:00 PM
Time Interval	1 Hour

Date/Tag	Western - Working Event				Central - Working Event				Eastern - Working Event			
	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP	ISSMARC001001002.PN WYF TRIP
8-Mar-25, 13:00:00	26.433	7.337	1121.126	31.406	7.175		2994.159	8.878	27.025			
8-Mar-25, 13:05:00	26.497	7.800	1126.517	31.441	7.108		2992.126	8.873	27.627			
8-Mar-25, 13:10:00	26.533	7.788	1131.148	31.448	7.148		2993.701	8.912	28.121			
8-Mar-25, 13:15:00	26.607	7.832	1135.159	31.494	7.194		2997.104	9.018	28.644			
8-Mar-25, 13:20:00	27.273	7.783	1135.176	31.497	7.210		2998.109	9.208	29.677			
8-Mar-25, 13:25:00	26.806	7.792	1135.176	31.497	7.210		2998.109	9.208	29.677			
8-Mar-25, 13:30:00	27.773	7.841	1147.341	31.799	7.196		2992.176	9.208	30.597			
8-Mar-25, 13:35:00	33.671	7.720	1167.006	32.180	7.211		2991.222	9.218	32.286			
8-Mar-25, 13:40:00	30.093	7.199	1161.120	32.146	7.246		2993.185	9.218	32.286			
8-Mar-25, 13:45:00	33.479	7.178	1167.146	32.505	7.179		2987.739	9.207	31.859			
8-Mar-25, 13:50:00	32.465	7.157	1167.146	32.505	7.179		2987.739	9.207	31.859			
8-Mar-25, 13:55:00	40.160	7.157	1167.146	32.505	7.179		2987.739	9.207	31.859			
8-Mar-25, 14:00:00	41.357	7.157	1167.146	32.505	7.179		2987.739	9.207	31.859			
8-Mar-25, 14:05:00	40.765	7.125	1165.540	32.528	7.182		2990.850	9.208	30.758			
8-Mar-25, 14:10:00	36.214	7.125	1165.540	32.528	7.182		2990.850	9.208	30.758			
8-Mar-25, 14:15:00	34.407	7.115	1162.540	32.528	7.182		2991.028	9.208	30.758			
8-Mar-25, 14:20:00	32.003	7.115	1162.540	32.528	7.182		2991.028	9.208	30.758			
8-Mar-25, 14:25:00	31.031	7.115	1162.540	32.528	7.182		2991.028	9.208	30.758			
8-Mar-25, 14:30:00	28.213	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 14:35:00	28.030	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 14:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 14:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 14:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 14:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 15:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 16:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 17:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 18:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:45:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:50:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 19:55:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:00:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:05:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:10:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:15:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:20:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:25:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:30:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:35:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:40:00	27.779	7.096	1151.040	32.551	7.403		2997.708	8.900	30.344			
8-Mar-25, 20:45:0												

Gulf NLL

Waste Water and Cooling Tower Blowdown Water Holding Pond Online Data

Date/Tag	Waste and Recycling Rates				CO2 Emissions (kg/kg)			
	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN	DSM4MCO2E1K02E1.PN
	WPH	WPH	WPH	WPH	CT BLINDING TEMP	CT BLINDING TEMP	CT BLINDING TEMP	CT BLINDING TEMP
18-04-25 4:00 AM	27.713	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 5:00 AM	27.756	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 6:00 AM	28.044	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 7:00 AM	28.318	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 8:00 AM	28.592	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 9:00 AM	28.866	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 10:00 AM	29.140	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 11:00 AM	29.414	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 12:00 PM	29.688	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 13:00 PM	29.962	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 14:00 PM	30.236	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 15:00 PM	30.510	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 16:00 PM	30.784	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 17:00 PM	31.058	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 18:00 PM	31.332	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 19:00 PM	31.606	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 20:00 PM	31.880	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 21:00 PM	32.154	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 22:00 PM	32.428	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-25 23:00 PM	32.702	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 0:00 AM	32.976	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 1:00 AM	33.250	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 2:00 AM	33.524	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 3:00 AM	33.798	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 4:00 AM	34.072	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 5:00 AM	34.346	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 6:00 AM	34.620	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 7:00 AM	34.894	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 8:00 AM	35.168	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 9:00 AM	35.442	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 10:00 AM	35.716	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 11:00 AM	35.990	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 12:00 PM	36.264	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 13:00 PM	36.538	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 14:00 PM	36.812	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 15:00 PM	37.086	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 16:00 PM	37.360	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 17:00 PM	37.634	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 18:00 PM	37.908	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 19:00 PM	38.182	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 20:00 PM	38.456	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 21:00 PM	38.730	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 22:00 PM	39.004	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-26 23:00 PM	39.278	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 0:00 AM	39.552	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 1:00 AM	39.826	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 2:00 AM	40.100	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 3:00 AM	40.374	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 4:00 AM	40.648	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 5:00 AM	40.922	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 6:00 AM	41.196	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 7:00 AM	41.470	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 8:00 AM	41.744	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 9:00 AM	42.018	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 10:00 AM	42.292	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 11:00 AM	42.566	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 12:00 PM	42.840	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 13:00 PM	43.114	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 14:00 PM	43.388	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 15:00 PM	43.662	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 16:00 PM	43.936	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 17:00 PM	44.210	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 18:00 PM	44.484	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 19:00 PM	44.758	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 20:00 PM	45.032	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 21:00 PM	45.306	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 22:00 PM	45.580	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-27 23:00 PM	45.854	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 0:00 AM	46.128	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 1:00 AM	46.402	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 2:00 AM	46.676	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 3:00 AM	46.950	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 4:00 AM	47.224	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 5:00 AM	47.498	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 6:00 AM	47.772	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 7:00 AM	48.046	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 8:00 AM	48.320	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 9:00 AM	48.594	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 10:00 AM	48.868	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 11:00 AM	49.142	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 12:00 PM	49.416	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 13:00 PM	49.690	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 14:00 PM	49.964	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 15:00 PM	50.238	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 16:00 PM	50.512	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 17:00 PM	50.786	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 18:00 PM	51.060	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 19:00 PM	51.334	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 20:00 PM	51.608	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 21:00 PM	51.882	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 22:00 PM	52.156	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-28 23:00 PM	52.430	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 0:00 AM	52.704	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 1:00 AM	52.978	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 2:00 AM	53.252	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 3:00 AM	53.526	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 4:00 AM	53.800	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 5:00 AM	54.074	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 6:00 AM	54.348	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 7:00 AM	54.622	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 8:00 AM	54.896	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 9:00 AM	55.170	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 10:00 AM	55.444	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 11:00 AM	55.718	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 12:00 PM	55.992	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 13:00 PM	56.266	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 14:00 PM	56.540	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 15:00 PM	56.814	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 16:00 PM	57.088	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 17:00 PM	57.362	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 18:00 PM	57.636	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 19:00 PM	57.910	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 20:00 PM	58.184	7.005	1.820	0.281	7.331	7.331	8931.438	8.14
18-04-29 21:00 PM	58.458	7.005	1.820					

Date/Time	Wave 1: Morning Peak				Wave 2: Evening Peak			
	ISDM-ASST-THRESHOLD-PPV	ISDM-ASST-COVID-19-PPV	ISDM-ASST-COVID-19-PPV	ISDM-ASST-THRESHOLD-PPV	ISDM-ASST-THRESHOLD-PPV	ISDM-ASST-COVID-19-PPV	ISDM-ASST-COVID-19-PPV	ISDM-ASST-THRESHOLD-PPV
20-Mar-25:00:00	28.68	7.06	185.31	27.98	7.06	184.93	6.21	52.69
20-Mar-25:05:00	28.75	7.11	171.73	27.98	7.06	184.93	6.21	52.69
20-Mar-25:10:00	28.82	7.16	158.15	27.98	7.06	184.93	6.21	52.69
20-Mar-25:15:00	28.89	7.21	144.57	27.98	7.06	184.93	6.21	52.69
20-Mar-25:20:00	28.96	7.26	131.00	27.98	7.06	184.93	6.21	52.69
20-Mar-25:25:00	29.03	7.31	117.42	27.98	7.06	184.93	6.21	52.69
20-Mar-25:30:00	29.10	7.36	103.85	27.98	7.06	184.93	6.21	52.69
20-Mar-25:35:00	29.17	7.41	90.27	27.98	7.06	184.93	6.21	52.69
20-Mar-25:40:00	29.24	7.46	76.70	27.98	7.06	184.93	6.21	52.69
20-Mar-25:45:00	29.31	7.51	63.12	27.98	7.06	184.93	6.21	52.69
20-Mar-25:50:00	29.38	7.56	49.55	27.98	7.06	184.93	6.21	52.69
20-Mar-25:55:00	29.45	7.61	35.97	27.98	7.06	184.93	6.21	52.69
20-Mar-26:00:00	29.52	7.66	22.40	27.98	7.06	184.93	6.21	52.69
20-Mar-26:05:00	29.59	7.71	8.82	27.98	7.06	184.93	6.21	52.69
20-Mar-26:10:00	29.66	7.76	-5.75	27.98	7.06	184.93	6.21	52.69
20-Mar-26:15:00	29.73	7.81	-19.33	27.98	7.06	184.93	6.21	52.69
20-Mar-26:20:00	29.80	7.86	-32.90	27.98	7.06	184.93	6.21	52.69
20-Mar-26:25:00	29.87	7.91	-46.48	27.98	7.06	184.93	6.21	52.69
20-Mar-26:30:00	29.94	7.96	-60.05	27.98	7.06	184.93	6.21	52.69
20-Mar-26:35:00	30.01	8.01	-73.63	27.98	7.06	184.93	6.21	52.69
20-Mar-26:40:00	30.08	8.06	-87.20	27.98	7.06	184.93	6.21	52.69
20-Mar-26:45:00	30.15	8.11	-100.78	27.98	7.06	184.93	6.21	52.69
20-Mar-26:50:00	30.22	8.16	-114.35	27.98	7.06	184.93	6.21	52.69
20-Mar-26:55:00	30.29	8.21	-127.93	27.98	7.06	184.93	6.21	52.69
20-Mar-27:00:00	30.36	8.26	-141.50	27.98	7.06	184.93	6.21	52.69
20-Mar-27:05:00	30.43	8.31	-155.08	27.98	7.06	184.93	6.21	52.69
20-Mar-27:10:00	30.50	8.36	-168.65	27.98	7.06	184.93	6.21	52.69
20-Mar-27:15:00	30.57	8.41	-182.23	27.98	7.06	184.93	6.21	52.69
20-Mar-27:20:00	30.64	8.46	-195.80	27.98	7.06	184.93	6.21	52.69
20-Mar-27:25:00	30.71	8.51	-209.38	27.98	7.06	184.93	6.21	52.69
20-Mar-27:30:00	30.78	8.56	-222.95	27.98	7.06	184.93	6.21	52.69
20-Mar-27:35:00	30.85	8.61	-236.53	27.98	7.06	184.93	6.21	52.69
20-Mar-27:40:00	30.92	8.66	-250.10	27.98	7.06	184.93	6.21	52.69
20-Mar-27:45:00	30.99	8.71	-263.68	27.98	7.06	184.93	6.21	52.69
20-Mar-27:50:00	31.06	8.76	-277.25	27.98	7.06	184.93	6.21	52.69
20-Mar-27:55:00	31.13	8.81	-290.83	27.98	7.06	184.93	6.21	52.69
20-Mar-28:00:00	31.20	8.86	-304.40	27.98	7.06	184.93	6.21	52.69
20-Mar-28:05:00	31.27	8.91	-317.98	27.98	7.06	184.93	6.21	

Time interval 1 hour

Date/Tag	100MAG0010001001.PV		100MAG0010001002.PV		100MAG0010001003.PV		100MAG0010001004.PV		100MAG0010001005.PV		100MAG0010001006.PV		100MAG0010001007.PV		100MAG0010001008.PV		100MAG0010001009.PV		100MAG0010001010.PV	
	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV	WV
31.04.25 3:00 AM	27.40	6.93	2701.140	32.05	7.13	7464.573	8.53	92.70												
31.04.25 3:00 AM	27.48	6.93	2714.085	32.081	7.37	7464.609	8.57	92.58												
31.04.25 3:00 AM	27.53	6.908	2727.03	32.11	7.61	7464.645	8.58	92.58												
31.04.25 3:00 AM	27.45	6.901	2737.811	32.09	7.83	7464.700	8.60	92.00												
31.04.25 3:00 AM	27.45	6.945	2740.012	32.05	7.87	7462.480	8.60	92.511												
31.04.25 3:00 AM	27.45	6.974	2751.876	32.18	7.17	7462.511	7.94	92.58												
31.04.25 3:00 AM	40.090	6.84	2757.404	32.00	7.87	7464.175	6.79	91.90												
31.04.25 3:00 AM	41.245	6.915	2764.754	32.74	7.63	7461.718	6.67	91.253												
31.04.25 3:00 AM	42.777	6.926	2771.606	32.66	7.88	7461.743	6.76	91.25												
31.04.25 3:12:00 PM	38.472	6.88	2780.455	32.64	7.60	7462.480	6.73	91.78												
31.04.25 3:12:00 PM	38.519	6.889	2791.260	32.76	7.58	7462.705	6.77	91.742												
31.04.25 3:12:00 PM	40.971	6.885	2802.051	32.86	7.48	7462.73	6.93	91.62												
31.04.25 3:12:00 PM	37.550	6.873	2800.766	33.77	7.68	7467.76	7.19	91.900												
31.04.25 3:12:00 PM	34.075	6.865	2812.513	33.80	7.60	7467.810	7.25	91.84												
31.04.25 3:12:00 PM	35.969	6.860	2827.573	33.77	7.50	7469.111	7.24	91.824												
31.04.25 3:12:00 PM	34.082	6.857	2833.143	32.70	7.55	7469.527	7.01	91.075												
31.04.25 3:12:00 PM	30.073	6.878	2840.784	32.68	7.58	7469.553	6.70	91.70												
31.04.25 3:12:00 PM	29.540	6.853	2851.429	32.69	7.58	7462.399	6.73	91.37												
31.04.25 3:12:00 PM	29.508	6.847	2859.409	33.14	7.48	7463.541	6.07	90.401												
31.04.25 3:12:00 PM	28.680	6.864	2867.054	33.16	7.40	7463.568	6.13	90.43												
31.04.25 3:12:00 PM	28.738	6.843	2862.915	33.17	7.57	7465.825	6.18	90.453												
1.04.25 3:12:00 AM	28.800	6.843	2861.057	32.80	7.55	7466.566	6.10	90.415												
1.04.25 3:12:00 AM	28.857	6.847	2867.127	32.87	7.49	7466.593	6.16	90.436												
1.04.25 3:12:00 AM	28.914	6.843	2869.584	32.86	7.60	7466.593	6.16	90.436												
1.04.25 3:12:00 AM	28.971	6.847	2875.654	32.87	7.52	7466.620	6.22	90.457												
1.04.25 3:12:00 AM	29.028	6.851	2881.724	32.88	7.44	7466.647	6.27	90.478												
1.04.25 3:12:00 AM	29.085	6.855	2887.794	32.89	7.36	7466.674	6.32	90.499												
1.04.25 3:12:00 AM	29.142	6.859	2893.864	32.90	7.28	7466.701	6.37	90.520												
1.04.25 3:12:00 AM	29.199	6.863	2899.934	32.91	7.20	7466.728	6.42	90.541												
1.04.25 3:12:00 AM	29.256	6.867	2905.999	32.92	7.12	7466.755	6.47	90.562												
1.04.25 3:12:00 AM	29.313	6.871	2912.069	32.93	7.04	7466.782	6.52	90.583												
1.04.25 3:12:00 AM	29.370	6.875	2918.139	32.94	6.96	7466.809	6.57	90.604												
1.04.25 3:12:00 AM	29.427	6.879	2924.209	32.95	6.88	7466.836	6.62	90.625												
1.04.25 3:12:00 AM	29.484	6.883	2930.279	32.96	6.80	7466.863	6.67	90.646												
1.04.25 3:12:00 AM	29.541	6.887	2936.349	32.97	6.72	7466.890	6.72	90.667												
1.04.25 3:12:00 AM	29.598	6.891	2942.419	32.98	6.64	7466.917	6.77	90.688												
1.04.25 3:12:00 AM	29.655	6.895	2948.489	32.99	6.56	7466.944	6.82	90.709												
1.04.25 3:12:00 AM	29.712	6.899	2954.559	33.00	6.48	7466.971	6.87	90.730												
1.04.25 3:12:00 AM	29.769	6.903	2960.629	33.01	6.40	7467.000	6.92	90.751												
1.04.25 3:12:00 AM	29.826	6.907	2966.699	33.02	6.32	7467.027	6.97	90.772												
1.04.25 3:12:00 AM	29.883	6.911	2972.769	33.03	6.24	7467.054	7.02	90.793												
1.04.25 3:12:00 AM	29.940	6.915	2978.839	33.04	6.16	7467.081	7.07	90.814												
1.04.25 3:12:00 AM	30.000	6.919	2984.909	33.05	6.08	7467.108	7.12	90.835												
1.04.25 3:12:00 AM	30.060	6.923	2990.979	33.06	6.00	7467.135	7.17	90.856												
1.04.25 3:12:00 AM	30.120	6.927	2997.049	33.07	5.92	7467.162	7.22	90.877												
1.04.25 3:12:00 AM	30.180	6.931	3003.119	33.08	5.84	7467.189	7.27	90.898												
1.04.25 3:12:00 AM	30.240	6.935	3009.189	33.09	5.76	7467.216	7.32	90.919												
1.04.25 3:12:00 AM	30.300	6.939	3015.259	33.10	5.68	7467.243	7.37	90.940												
1.04.25 3:12:00 AM	30.360	6.943	3021.329	33.11	5.60	7467.270	7.42	90.961												
1.04.25 3:12:00 AM	30.420	6.947	3027.399	33.12	5.52	7467.297	7.47	90.982												
1.04.25 3:12:00 AM	30.480	6.951	3033.469	33.13	5.44	7467.324	7.52	91.003												
1.04.25 3:12:00 AM	30.540	6.955	3039.539	33.14	5.36	7467.351	7.57	91.024												
1.04.25 3:12:00 AM	30.600	6.959	3045.609	33.15	5.28	7467.378	7.62	91.045												
1.04.25 3:12:00 AM	30.660	6.963	3051.679	33.16	5.20	7467.405	7.67	91.066												
1.04.25 3:12:00 AM	30.720	6.967	3057.749	33.17	5.12	7467.432	7.72	91.087												
1.04.25 3:12:00 AM	30.780	6.971	3063.819	33.18	5.04	7467.459	7.77	91.108												
1.04.25 3:12:00 AM	30.840	6.975	3069.889	33.19	4.96	7467.486	7.82	91.129												
1.04.25 3:12:00 AM	30.900	6.979	3075.959	33.20	4.88	7467.513	7.87	91.150												
1.04.25 3:12:00 AM	30.960	6.983	3082.029	33.21	4.80	7467.540	7.92	91.171												
1.04.25 3:12:00 AM	31.020	6.987	3088.099	33.22	4.72	7467.567	7.97	91.192												
1.04.25 3:12:00 AM	31.080	6.991	3094.169	33.23	4.64	7467.594	8.02	91.213												
1.04.25 3:12:00 AM	31.140	6.995	3100.239	33.24	4.56	7467.621	8.07	91.234												
1.04.25 3:12:00 AM	31.200	6.999	3106.309	33.25	4.48	7467.648	8.12	91.255												
1.04.25 3:12:00 AM	31.260	7.003	3112.379	33.26	4.40	7467.675	8.17	91.276												
1.04.25 3:12:00 AM	31.320	7.007	3118.449	33.27	4.32	7467.702	8.22	91.297												
1.04.25 3:12:00 AM	31.380	7.011	3124.519	33.28	4.24	7467.729	8.27	91.318												
1.04.25 3:12:00 AM	31.440	7.015	3130.589	33.29	4.16	7467.756	8.32	91.339												
1.04.25 3:12:00 AM	31.500	7.019	3136.659	33.30	4.08	7467.783	8.37	91.360												
1.04.25 3:12:00 AM	31.560	7.023	3142.729	33.31	4.00	7467.810	8.42	91.381												
1.04.25 3:12:00 AM	31.620	7.027	3148.799	33.32	3.92	7467.837	8.47	91.402												
1.04.25 3:12:00 AM	31.680	7.031	3154.869	33.33	3.84	7467.864	8.52	91.423												
1.04.25 3:12:00 AM	31.740	7.035	3160.939	33.34	3.76	7467.891	8.57	91.444												
1.04.25 3:12:00 AM	31.800	7.039	3167.009	33.35	3.68	7467.918	8.62	91.465												
1.04.25 3:12:00 AM	31.860	7.043	3173.079	33.36	3.60	7467.945	8.67	91.486												
1.04.25 3:12:00 AM	31.920	7.047	3179.149	33.37	3.52	7467.972	8.72	91.507												
1.04.25 3:12:00 AM	31.980	7.051	3185.219	33.38	3.44	7														

Time Interval 1 hour

[illegible]

[illegible][illegible]

[illegible][illegible]

1. How many...

[illegible]

1.10.2014

Cant/Trk	West of Hauling Pond				East of Hauling Pond			
	DOHMH-001(K03) PV NEW TEMP	DOHMH-001(K03) Q03/PV	DOHMH-001(K03) Q03/PV NEW COND/ST	DOHMH-001(K03) Q03/PV NEW COND/ST	DOHMH-001(K03) PV CT BLINDING TEMP	DOHMH-001(K03) PV CT BLINDING TEMP	DOHMH-001(K03) PV CT BLINDING TEMP	DOHMH-001(K03) PV CT BLINDING TEMP
3-Sep-25 0:00 PM	31.115	6.912	955.740	32.000	7.073	779.172	7.380	95.349
3-Sep-25 2:00 PM	29.213	6.912	955.740	32.000	7.053	779.201	8.415	95.349
3-Sep-25 4:00 PM	27.134	6.912	955.740	32.000	7.053	779.201	8.415	95.349
3-Sep-25 6:00 PM	25.519	6.981	967.181	32.711	7.011	786.976	8.900	95.349
3-Sep-25 8:00 PM	25.277	6.981	967.181	32.711	7.011	786.976	8.900	95.349
3-Sep-25 10:00 PM	26.142	6.916	971.736	32.500	6.992	789.443	8.900	95.349
4-Sep-25 12:00 AM	25.511	6.916	968.009	29.650	6.985	780.677	8.367	87.881
4-Sep-25 2:00 AM	25.511	6.901	968.009	29.650	6.985	780.677	8.367	87.881
4-Sep-25 4:00 AM	25.576	6.917	968.009	29.650	6.966	790.432	8.767	87.881
4-Sep-25 6:00 AM	25.282	6.927	968.017	27.671	6.978	790.655	8.843	87.414
4-Sep-25 8:00 AM	24.997	6.918	968.017	27.671	6.978	790.655	9.117	87.414
4-Sep-25 10:00 AM	24.873	6.918	968.017	27.671	6.941	790.432	9.155	87.113
4-Sep-25 12:00 PM	24.813	6.926	968.059	27.813	6.941	790.625	9.155	87.359
4-Sep-25 2:00 PM	25.286	6.902	968.059	27.813	6.941	790.625	9.155	87.359
4-Sep-25 4:00 PM	27.447	6.877	968.523	27.992	6.943	790.612	8.956	86.864
4-Sep-25 6:00 PM	33.662	6.876	968.444	29.831	6.943	790.627	7.702	86.864
4-Sep-25 8:00 PM	38.717	6.905	972.575	32.677	6.943	790.627	8.479	84.513
4-Sep-25 10:00 PM	36.329	6.957	977.847	33.300	6.944	796.787	6.848	82.846
4-Sep-25 12:00 PM	35.173	6.953	966.756	33.021	6.940	787.577	6.548	82.846
4-Sep-25 2:00 PM	34.927	6.955	966.756	33.021	6.940	787.577	6.548	82.846
4-Sep-25 4:00 PM	34.927	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.728	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.728	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 8:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 10:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 12:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 2:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 4:00 PM	29.829	7.142	1064.381	33.964	6.964	812.155	7.894	113.167
4-Sep-25 6:00 PM	29.829	7.142	1064.					

Gulf NLL

Waste Water and Cooling Tower Blowdown Water Holding Pond Online Data

[illegible]

[illegible][illegible]

Start	1 Jul 25 12:00 A
End	31 Dec 25 11:00
Time Interval	1 Hour

[illegible]

/Gulf Hill2

## Waste Water and Cooling Tower Blowdown Water Holding Pond Online Data

Start 1:44:25 12:00 AM  
End 31 Dec 25 11:00 PM  
Time Interval 1 Hour

Date/Time	Waste Water Holding Pond			Cooling Tower Blowdown Water Holding Pond		
	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP
Waste Water Holding Pond						
DATE/TIME	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP	WWT-TMP
10/24/25 8:00 AM	20.991	8.879	0.184	12.019	8.706	0.200
10/24/25 9:00 AM	20.951	8.861	0.180	12.019	8.679	0.199
10/24/25 10:00 AM	20.887	8.801	0.176	12.019	8.605	0.197
10/24/25 11:00 AM	20.854	8.738	0.172	12.019	8.578	0.196
10/24/25 12:00 PM	20.811	8.675	0.168	12.019	8.551	0.195
10/24/25 2:00 PM	20.768	8.612	0.164	12.019	8.524	0.194
10/24/25 3:00 PM	20.725	8.549	0.160	12.019	8.497	0.193
10/24/25 4:00 PM	20.682	8.486	0.156	12.019	8.470	0.192
10/24/25 5:00 PM	20.639	8.423	0.152	12.019	8.443	0.191
10/24/25 6:00 PM	20.596	8.360	0.148	12.019	8.416	0.190
10/24/25 7:00 PM	20.553	8.297	0.144	12.019	8.389	0.189
10/24/25 8:00 PM	20.510	8.234	0.140	12.019	8.362	0.188
10/24/25 9:00 PM	20.467	8.171	0.136	12.019	8.335	0.187
10/24/25 10:00 PM	20.424	8.108	0.132	12.019	8.308	0.186
10/24/25 11:00 PM	20.381	8.045	0.128	12.019	8.281	0.185
10/24/25 12:00 AM	20.338	7.982	0.124	12.019	8.254	0.184
10/24/25 1:00 AM	20.295	7.919	0.120	12.019	8.227	0.183
10/24/25 2:00 AM	20.252	7.856	0.116	12.019	8.200	0.182
10/24/25 3:00 AM	20.209	7.793	0.112	12.019	8.173	0.181
10/24/25 4:00 AM	20.166	7.730	0.108	12.019	8.146	0.180
10/24/25 5:00 AM	20.123	7.667	0.104	12.019	8.119	0.179
10/24/25 6:00 AM	20.080	7.604	0.100	12.019	8.092	0.178
10/24/25 7:00 AM	20.037	7.541	0.096	12.019	8.065	0.177
10/24/25 8:00 AM	19.994	7.478	0.092	12.019	8.038	0.176
10/24/25 9:00 AM	19.951	7.415	0.088	12.019	8.011	0.175
10/24/25 10:00 AM	19.908	7.352	0.084	12.019	7.984	0.174
10/24/25 11:00 AM	19.865	7.289	0.080	12.019	7.957	0.173
10/24/25 12:00 PM	19.822	7.226	0.076	12.019	7.930	0.172
10/24/25 1:00 PM	19.779	7.163	0.072	12.019	7.903	0.171
10/24/25 2:00 PM	19.736	7.100	0.068	12.019	7.876	0.170
10/24/25 3:00 PM	19.693	7.037	0.064	12.019	7.849	0.169
10/24/25 4:00 PM	19.650	6.974	0.060	12.019	7.822	0.168
10/24/25 5:00 PM	19.607	6.911	0.056	12.019	7.795	0.167
10/24/25 6:00 PM	19.564	6.848	0.052	12.019	7.768	0.166
10/24/25 7:00 PM	19.521	6.785	0.048	12.019	7.741	0.165
10/24/25 8:00 PM	19.478	6.722	0.044	12.019	7.714	0.164
10/24/25 9:00 PM	19.435	6.659	0.040	12.019	7.687	0.163
10/24/25 10:00 PM	19.392	6.596	0.036	12.019	7.660	0.162
10/24/25 11:00 PM	19.349	6.533	0.032	12.019	7.633	0.161
10/24/25 12:00 AM	19.306	6.470	0.028	12.019	7.606	0.160
10/24/25 1:00 AM	19.263	6.407	0.024	12.019	7.579	0.159
10/24/25 2:00 AM	19.220	6.344	0.020	12.019	7.552	0.158
10/24/25 3:00 AM	19.177	6.281	0.016	12.019	7.525	0.157
10/24/25 4:00 AM	19.134	6.218	0.012	12.019	7.498	0.156
10/24/25 5:00 AM	19.091	6.155	0.008	12.019	7.471	0.155
10/24/25 6:00 AM	19.048	6.092	0.004	12.019	7.444	0.154
10/24/25 7:00 AM	19.005	6.029	0.000	12.019	7.417	0.153
10/24/25 8:00 AM	18.962	5.966	0.000	12.019	7.390	0.152
10/24/25 9:00 AM	18.919	5.903	0.000	12.019	7.363	0.151
10/24/25 10:00 PM	18.876	5.840	0.000	12.019	7.336	0.150
10/24/25 11:00 PM	18.833	5.777	0.000	12.019	7.309	0.149
10/24/25 12:00 AM	18.790	5.714	0.000	12.019	7.282	0.148
10/24/25 1:00 AM	18.747	5.651	0.000	12.019	7.255	0.147
10/24/25 2:00 AM	18.704	5.588	0.000	12.019	7.228	0.146
10/24/25 3:00 AM	18.661	5.525	0.000	12.019	7.201	0.145
10/24/25 4:00 AM	18.618	5.462	0.000	12.019	7.174	0.144
10/24/25 5:00 AM	18.575	5.399	0.000	12.019	7.147	0.143
10/24/25 6:00 AM	18.532	5.336	0.000	12.019	7.120	0.142
10/24/25 7:00 AM	18.489	5.273	0.000	12.019	7.093	0.141
10/24/25 8:00 AM	18.446	5.210	0.000	12.019	7.066	0.140
10/24/25 9:00 AM	18.403	5.147	0.000	12.019	7.039	0.139
10/24/25 10:00 PM	18.360	5.084	0.000	12.019	7.012	0.138
10/24/25 11:00 PM	18.317	5.021	0.000	12.019	6.985	0.137
10/24/25 12:00 AM	18.274	4.958	0.000	12.019	6.958	0.136
10/24/25 1:00 AM	18.231	4.895	0.000	12.019	6.931	0.135
10/24/25 2:00 AM	18.188	4.832	0.000	12.019	6.904	0.134
10/24/25 3:00 AM	18.145	4.769	0.000	12.019	6.877	0.133
10/24/25 4:00 AM	18.102	4.706	0.000	12.019	6.850	0.132
10/24/25 5:00 AM	18.059	4.643	0.000	12.019	6.823	0.131
10/24/25 6:00 AM	18.016	4.580	0.000	12.019	6.796	0.130
10/24/25 7:00 AM	17.973	4.517	0.000	12.019	6.769	0.129
10/24/25 8:00 AM	17.930	4.454	0.000	12.019	6.742	0.128
10/24/25 9:00 AM	17.887	4.391	0.000	12.019	6.715	0.127
10/24/25 10:00 PM	17.844	4.328	0.000	12.019	6.688	0.126
10/24/25 11:00 PM	17.801	4.265	0.000	12.019	6.661	0.125
10/24/25 12:00 AM	17.758	4.202	0.000	12.019	6.634	0.124
10/24/25 1:00 AM	17.715	4.139	0.000	12.019	6.607	0.123
10/24/25 2:00 AM	17.672	4.076	0.000	12.019	6.580	0.122
10/24/25 3:00 AM	17.629	4.013	0.000	12.019	6.553	0.121
10/24/25 4:00 AM	17.586	3.950	0.000	12.019	6.526	0.120
10/24/25 5:00 AM	17.543	3.887	0.000	12.019	6.499	0.119
10/24/25 6:00 AM	17.500	3.824	0.000	12.019	6.472	0.118
10/24/25 7:00 AM	17.457	3.761	0.000	12.019	6.445	0.117
10/24/25 8:00 AM	17.414	3.698	0.000	12.019	6.418	0.116
10/24/25 9:00 AM	17.371	3.635	0.000	12.019	6.391	0.115
10/24/25 10:00 PM	17.328	3.572	0.000	12.019	6.364	0.114
10/24/25 11:00 PM	17.285	3.509	0.000	12.019	6.337	0.113
10/24/25 12:00 AM	17.242	3.446	0.000	12.019	6.310	0.112
10/24/25 1:00 AM	17.199	3.383	0.000	12.019	6.283	0.111
10/24/25 2:00 AM	17.156	3.320	0.000	12.019	6.256	0.110
10/24/25 3:00 AM	17.113	3.257	0.000	12.019	6.229	0.109
10/24/25 4:00 AM	17.070	3.194	0.000	12.019	6.202	0.108
10/24/25 5:00 AM	17.027	3.131	0.000	12.019	6.175	0.107
10/24/25 6:00 AM	16.984	3.068	0.000	12.019	6.148	0.106
10/24/25 7:00 AM	16.941	3.005	0.000	12.019	6.121	0.105
10/24/25 8:00 AM	16.898	2.942	0.000	12.019	6.094	0.104
10/24/25 9:00 AM	16.855	2.879	0.000	12.019	6.067	0.103
10/24/25 10:00 PM	16.812	2.816	0.000	12.019	6.040	0.102
10/24/25 11:00 PM	16.769	2.753	0.000	12.019	6.013	0.101
10/24/25 12:00 AM	16.726	2.690	0.000	12.019	5.986	0.100
10/24/25 1:00 AM	16.683	2.627	0.000	12.019	5.959	0.099
10/24/25 2:00 AM	16.640	2.564	0.000	12.019	5.932	0.098
10/24/25 3:00 AM	16.597	2.501	0.000	12.019	5.905	0.097
10/24/25 4:00 AM	16.554	2.438	0.000	12.019	5.878	0.096
10/24/25 5:00 AM	16.511	2.375	0.000	12.019	5.851	0.095
10/24/25 6:00 AM	16.468	2.312	0.000	12.019	5.824	0.094
10/24/25 7:00 AM	16.425	2.249	0.000	12.019	5.797	0.093
10/24/25 8:00 AM	16.382	2.186	0.000	12.019	5.770	0.092
10/24/25 9:00 AM	16.339	2.123	0.000	12.019	5.743	0.091
10/24/25 10:00 PM	16.296	2.060	0.000	12.019	5.716	0.090
10/24/25 11:00 PM	16.253	2.000	0.000	12.019	5.689	0.089
10/24/25 12:00 AM	16.210	1.937	0.000	12.019	5.662	0.088
10/24/25 1:00 AM	16.167	1.874	0.000	12.019	5.635	0.087
10/24/25 2:00 AM	16.124	1.811	0.000	12.019	5.608	0.086
10/24/25 3:00 AM	16.081	1.748	0.000	12.019	5.581	0.085
10/24/25 4:00 AM	16.038	1.685	0.000	12.019	5.554	0.084
10/24/25 5:00 AM	15.995	1.622	0.000	12.019	5.527	0.083
10/24/25 6:00 AM	15.952	1.559	0.000	12.019	5.500	0.082
10/24/25 7:00 AM	15.909	1.496	0.000	12.019	5.473	0.081
10/24/25 8:00 AM	15.866	1.433	0.000	12.019	5.446	0.080
10/24/25 9:00 AM	15.823	1.370	0.000	12.019	5.419	0.079
10/24/25 10:00 PM	15.780	1.307	0.000	12.019	5.392	0.078
10/24/25 11:00 PM	15.737	1.244	0.000	12.019	5.365	0.077
10/24/25 12:00 AM	15.694	1.181	0.000	12.019	5.338	0.076
10/24/25 1:00 AM	15.651	1.118	0.000	12.019	5.311	0.075
10/24/25 2:00 AM	15.608	1.055	0.000	12.019	5.284	0.074
10/24/25 3:00 AM	15.565	0.992	0.000	12.019	5.257	0.073
10/24/25 4:00 AM	15.522	0.929	0.000	12.019	5.230	0.072
10/24/25 5:00 AM	15.479	0.866	0.000	12.019	5.203	0.071
10/24/25 6:00 AM	15.436	0.803	0.000	12.019	5.176	0.070
10/24/25 7:00 AM	15.393	0.740	0.000	12.019	5.149	0.069
10/24/25 8:00 AM	15.350	0.677	0.000	12.019	5.122	0.068
10/24/25 9:00 AM	15.307	0.614	0.000	12.019	5.095	0.067
10/24/25 10:00 PM	15.264	0.551	0.000	12.019	5.068	0.066
10/24/25 11:00 PM	15.221	0.488	0.000	12.019	5.041	0.065
10/24/25 12:00 AM	15.178	0.425	0.000	12.019	5.014	0.064
10/24/25 1:00 AM	15.13					

1-28-25 12:00 AM

Date/Tag		Where the Holding Took				COT (Net Longing/Shorting Pos.)							
		ISM&MCCOIN00010001 PV CT BLINDING/DOGS	ISM&MCCOIN00010002 PV CT BLINDING/DOGS	ISM&MCCOIN00010003 PV CT BLINDING/DOGS	ISM&MCCOIN00010004 PV CT BLINDING/DOGS	ISM&MCCOIN00010005 PV CT BLINDING/DOGS	ISM&MCCOIN00010006 PV CT BLINDING/DOGS	ISM&MCCOIN00010007 PV CT BLINDING/DOGS	ISM&MCCOIN00010008 PV CT BLINDING/DOGS	ISM&MCCOIN00010009 PV CT BLINDING/DOGS	ISM&MCCOIN00010010 PV CT BLINDING/DOGS		
20.04.25 7:00 PM	75.159	8.838	18601.45	47.561	7.778	17801.645	7.149	8.481					
20.04.25 7:05 PM	75.20	8.845	18601.45	47.561	7.778	17801.645	7.149	8.481					
20.04.25 7:10 PM	75.262	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:15 PM	75.380	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:20 PM	75.493	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:25 PM	75.607	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:30 PM	75.721	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:35 PM	75.835	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:40 PM	75.949	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:45 PM	76.063	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:50 PM	76.177	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 7:55 PM	76.291	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:00 PM	76.405	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:05 PM	76.519	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:10 PM	76.633	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:15 PM	76.747	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:20 PM	76.861	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:25 PM	76.975	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:30 PM	77.089	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:35 PM	77.203	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:40 PM	77.317	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:45 PM	77.431	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:50 PM	77.545	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 8:55 PM	77.659	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:00 PM	77.773	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:05 PM	77.887	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:10 PM	78.001	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:15 PM	78.115	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:20 PM	78.229	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:25 PM	78.343	8.847	18611.507	47.579	7.787	17804.14	7.704	8.486					
20.04.25 9:30 PM	78.457	8.847	18611.507	47.579									

1-28-25 12:00 AM

Date/Tag	Where is the Hubbing Point				Where is the Hubbing Point				Where is the Hubbing Point				Where is the Hubbing Point				Where is the Hubbing Point			
	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP	INBANK/OUTBANK/IN/OUT BY SWP			
26.04.25 8.00Z PM	77.537	6.614	731.142	41.008	7.412	733.678	8.148	88.754												
26.04.25 8.15Z PM	77.533	7.343	731.142	41.008	7.708	733.678	8.148	88.754												
26.04.25 8.30Z PM	77.535	7.467	731.033	41.008	7.714	733.124	8.798	88.637												
26.04.25 8.45Z PM	77.538	7.488	731.045	41.008	7.710	731.173	8.798	88.738												
26.04.25 9.00Z PM	77.536	7.716	731.045	41.008	7.718	731.175	9.113	88.738												
26.04.25 9.15Z PM	26.837	6.781	731.048	41.008	7.781	729.608	9.113	88.638												
26.04.25 9.30Z PM	26.838	6.995	731.042	41.008	7.799	729.608	9.113	88.738												
26.04.25 9.45Z PM	26.838	6.988	731.048	41.008	7.794	729.610	9.054	88.738												
26.04.25 9.50Z PM	25.704	6.804	731.042	41.008	7.714	724.796	8.845	88.738												
26.04.25 9.55Z PM	25.704	6.804	731.048	41.008	7.725	727.484	8.845	88.738												
26.04.25 10.00Z PM	25.735	6.875	731.048	41.008	7.725	729.612	9.054	88.738												
26.04.25 10.05Z PM	26.701	6.836	731.048	41.008	7.717	731.859	8.938	88.557												
26.04.25 10.10Z PM	25.762	6.812	731.048	41.008	7.746	735.547	8.714	88.174												
26.04.25 10.15Z PM	26.705	6.790	731.048	41.008	7.746	731.859	8.938	88.557												
26.04.25 10.20Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.25Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.30Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.35Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.40Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.45Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.50Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 10.55Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 11.00Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 11.05Z PM	33.660	7.746	731.048	41.008	7.795	730.932	7.801	87.625												
26.04.25 11.10Z PM	33.660	7.7																		

[illegible][illegible]

Date/Tag	Weyang River Trading Point				Changjiang River Trading Point			
	SINAMIC MOTOR PV		SINAMIC MOTOR PV		SINAMIC MOTOR PV		SINAMIC MOTOR PV	
	WHP TRAMP	WHP PV	WHP TRAMP	WHP PV	WHP TRAMP	WHP PV	WHP TRAMP	WHP PV
8-May-25 6:00 PM	29.715	6.805	1731.144	33.97	6.944	7480.136	7.837	80.588
8-May-25 6:30 PM	29.720	6.805	1731.271	33.97	6.944	7479.861	7.837	80.588
8-May-25 7:00 PM	29.727	6.805	1731.379	33.97	6.944	7479.586	7.837	80.588
8-May-25 7:30 PM	29.733	6.808	1731.378	33.981	6.948	7479.788	7.908	80.777
8-May-25 8:00 PM	29.737	6.812	1731.474	33.977	6.952	7479.937	7.917	80.828
8-May-25 8:30 PM	29.747	6.812	1740.015	33.977	6.952	7479.407	7.917	80.844
8-May-25 9:00 PM	29.748	6.813	1741.077	33.977	6.952	7469.718	7.897	81.640
8-May-25 9:30 PM	29.758	6.812	1802.850	33.981	6.982	7465.449	8.940	82.700
8-May-25 10:00 PM	29.768	6.813	1803.400	33.988	6.988	7465.449	8.940	82.700
8-May-25 10:30 PM	29.771	6.813	1806.651	33.981	6.979	7466.494	8.993	83.778
8-May-25 11:00 PM	29.783	6.808	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:50 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:50 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:50 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 12:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 1:50 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 2:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 3:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:00 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 4:30 AM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 5:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 6:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 7:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 8:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 9:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 10:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:00 PM	29.473	6.848	1837.914	33.999	6.981	7466.846	8.953	82.926
8-May-25 11:30 PM	29.473	6.848	1837.914	33.999	6.981	7466.846		

[illegible]

Time Interval	File
00:00:00 - 00:00:05	1
00:00:05 - 00:00:10	1
00:00:10 - 00:00:15	1
00:00:15 - 00:00:20	1
00:00:20 - 00:00:25	1
00:00:25 - 00:00:30	1
00:00:30 - 00:00:35	1
00:00:35 - 00:00:40	1
00:00:40 - 00:00:45	1
00:00:45 - 00:00:50	1
00:00:50 - 00:00:55	1
00:00:55 - 00:01:00	1
00:01:00 - 00:01:05	1
00:01:05 - 00:01:10	1
00:01:10 - 00:01:15	1
00:01:15 - 00:01:20	1
00:01:20 - 00:01:25	1
00:01:25 - 00:01:30	1
00:01:30 - 00:01:35	1
00:01:35 - 00:01:40	1
00:01:40 - 00:01:45	1
00:01:45 - 00:01:50	1
00:01:50 - 00:01:55	1
00:01:55 - 00:02:00	1
00:02:00 - 00:02:05	1
00:02:05 - 00:02:10	1
00:02:10 - 00:02:15	1
00:02:15 - 00:02:20	1
00:02:20 - 00:02:25	1
00:02:25 - 00:02:30	1
00:02:30 - 00:02:35	1
00:02:35 - 00:02:40	1
00:02:40 - 00:02:45	1
00:02:45 - 00:02:50	1
00:02:50 - 00:02:55	1
00:02:55 - 00:03:00	1
00:03:00 - 00:03:05	1
00:03:05 - 00:03:10	1
00:03:10 - 00:03:15	1
00:03:15 - 00:03:20	1
00:03:20 - 00:03:25	1
00:03:25 - 00:03:30	1
00:03:30 - 00:03:35	1
00:03:35 - 00:03:40	1
00:03:40 - 00:03:45	1
00:03:45 - 00:03:50	1
00:03:50 - 00:03:55	1
00:03:55 - 00:04:00	1
00:04:00 - 00:04:05	1
00:04:05 - 00:04:10	1
00:04:10 - 00:04:15	1
00:04:15 - 00:04:20	1
00:04:20 - 00:04:25	1
00:04:25 - 00:04:30	1
00:04:30 - 00:04:35	1
00:04:35 - 00:04:40	1
00:04:40 - 00:04:45	1
00:04:45 - 00:04:50	1
00:04:50 - 00:04:55	1
00:04:55 - 00:05:00	1
00:05:00 - 00:05:05	1
00:05:05 - 00:05:10	1
00:05:10 - 00:05:15	1
00:05:15 - 00:05:20	1
00:05:20 - 00:05:25	1
00:05:25 - 00:05:30	1
00:05:30 - 00:05:35	1
00:05:35 - 00:05:40	1
00:05:40 - 00:05:45	1
00:05:45 - 00:05:50	1
00:05:50 - 00:05:55	1
00:05:55 - 00:06:00	1
00:06:00 - 00:06:05	1
00:06:05 - 00:06:10	1
00:06:10 - 00:06:15	1
00:06:15 - 00:06:20	1
00:06:20 - 00:06:25	1
00:06:25 - 00:06:30	1
00:06:30 - 00:06:35	1
00:06:35 - 00:06:40	1
00:06:40 - 00:06:45	1
00:06:45 - 00:06:50	1
00:06:50 - 00:06:55	1
00:06:55 - 00:07:00	1
00:07:00 - 00:07:05	1
00:07:05 - 00:07:10	1
00:07:10 - 00:07:15	1
00:07:15 - 00:07:20	1
00:07:20 - 00:07:25	1
00:07:25 - 00:07:30	1
00:07:30 - 00:07:35	1
00:07:35 - 00:07:40	1
00:07:40 - 00:07:45	1
00:07:45 - 00:07:50	1
00:07:50 - 00:07:55	1
00:07:55 - 00:08:00	1
00:08:00 - 00:08:05	1
00:08:05 - 00:08:10	1
00:08:10 - 00:08:15	1
00:08:15 - 00:08:20	1
00:08:20 - 00:08:25	1
00:08:25 - 00:08:30	1
00:08:30 - 00:08:35	1
00:08:35 - 00:08:40	1
00:08:40 - 00:08:45	1
00:08:45 - 00:08:50	1
00:08:50 - 00:08:55	1

[illegible]

Time Interval

[illegible]

/FUG HILL2

Start 1:48:25 12:00 AM  
End 31 Dec 25 11:00 PM  
Time Interval 1 Hour

## Waste Water and Cooling Tower Blowdown Water Holding Pond Online Data

DATE/TIME	Waste Water Holding Pond			Cooling Tower Blowdown Water Holding Pond		
	WWT-TMP	WWT-COOL	WWT-COOL	WWT-TMP	WWT-COOL	WWT-COOL
DATE/TIME	WWT-TMP	WWT-COOL	WWT-COOL	WWT-TMP	WWT-COOL	WWT-COOL
29-Nov-25 8:00 AM	21.209	8.508	597.094	20.911	7.948	289.409
29-Nov-25 9:00 AM	21.474	8.517	601.801	20.828	7.948	293.828
29-Nov-25 10:00 AM	20.779	8.526	607.230	20.887	7.948	298.230
29-Nov-25 11:00 AM	18.461	8.546	618.701	20.986	7.948	309.719
29-Nov-25 12:00 PM	15.711	8.571	631.134	21.077	7.948	321.134
29-Nov-25 1:00 PM	14.043	8.577	635.893	21.078	7.948	326.893
29-Nov-25 2:00 PM	14.729	8.517	630.630	20.787	7.937	321.664
29-Nov-25 3:00 PM	15.764	8.508	625.367	20.828	7.948	326.367
29-Nov-25 4:00 PM	16.706	8.506	621.807	20.828	7.948	331.807
29-Nov-25 5:00 PM	16.864	8.510	612.733	20.847	7.948	336.733
29-Nov-25 6:00 PM	17.054	8.514	603.658	20.847	7.948	341.658
29-Nov-25 7:00 PM	17.208	8.518	595.606	20.795	8.528	350.871
29-Nov-25 8:00 PM	17.077	8.527	587.439	20.767	8.528	354.978
29-Nov-25 9:00 PM	17.008	8.526	581.257	20.695	8.528	358.257
29-Nov-25 10:00 PM	16.941	8.530	573.075	20.643	8.528	361.075
29-Nov-25 11:00 PM	16.865	8.534	564.894	20.577	8.528	364.894
30-Nov-25 12:00 AM	16.745	8.538	556.717	20.507	8.528	368.717
30-Nov-25 1:00 AM	16.574	8.542	548.544	20.438	8.528	372.544
30-Nov-25 2:00 AM	16.351	8.547	540.371	20.368	8.528	376.371
30-Nov-25 3:00 AM	16.078	8.551	532.198	20.298	8.528	380.198
30-Nov-25 4:00 AM	15.754	8.555	524.025	20.228	8.528	384.025
30-Nov-25 5:00 AM	15.381	8.559	515.852	20.158	8.528	387.852
30-Nov-25 6:00 AM	14.958	8.563	507.679	20.088	8.528	391.679
30-Nov-25 7:00 AM	14.485	8.567	499.506	20.018	8.528	395.506
30-Nov-25 8:00 AM	13.962	8.571	491.333	19.948	8.528	399.333
30-Nov-25 9:00 AM	13.389	8.575	483.160	19.878	8.528	403.160
30-Nov-25 10:00 AM	12.766	8.579	474.987	19.808	8.528	406.987
30-Nov-25 11:00 AM	12.093	8.583	466.814	19.738	8.528	410.814
1-Dec-25 12:00 PM	11.370	8.587	458.641	19.668	8.528	414.641
1-Dec-25 1:00 PM	10.597	8.591	450.468	19.598	8.528	418.468
1-Dec-25 2:00 PM	9.774	8.595	442.295	19.528	8.528	422.295
1-Dec-25 3:00 PM	8.901	8.599	434.122	19.458	8.528	426.122
1-Dec-25 4:00 PM	7.978	8.603	425.949	19.388	8.528	429.949
1-Dec-25 5:00 PM	7.005	8.607	417.776	19.318	8.528	433.776
1-Dec-25 6:00 PM	5.982	8.611	409.603	19.248	8.528	437.603
1-Dec-25 7:00 PM	4.909	8.615	401.430	19.178	8.528	441.430
1-Dec-25 8:00 PM	3.786	8.619	393.257	19.108	8.528	445.257
1-Dec-25 9:00 PM	2.613	8.623	385.084	19.038	8.528	449.084
1-Dec-25 10:00 PM	1.340	8.627	376.911	18.968	8.528	452.911
1-Dec-25 11:00 PM	0.167	8.631	368.738	18.898	8.528	456.738
2-Dec-25 12:00 AM	-0.906	8.635	360.565	18.828	8.528	460.565
2-Dec-25 1:00 AM	-1.929	8.639	352.392	18.758	8.528	464.392
2-Dec-25 2:00 AM	-2.952	8.643	344.219	18.688	8.528	468.219
2-Dec-25 3:00 AM	-3.975	8.647	336.046	18.618	8.528	472.046
2-Dec-25 4:00 AM	-4.998	8.651	327.873	18.548	8.528	475.873
2-Dec-25 5:00 AM	-6.021	8.655	319.700	18.478	8.528	479.700
2-Dec-25 6:00 AM	-7.044	8.659	311.527	18.408	8.528	483.527
2-Dec-25 7:00 AM	-8.067	8.663	303.354	18.338	8.528	487.354
2-Dec-25 8:00 AM	-9.090	8.667	295.181	18.268	8.528	491.181
2-Dec-25 9:00 AM	-10.113	8.671	287.008	18.198	8.528	495.008
2-Dec-25 10:00 AM	-11.136	8.675	278.835	18.128	8.528	498.835
2-Dec-25 11:00 AM	-12.159	8.679	270.662	18.058	8.528	502.662
3-Dec-25 12:00 PM	-13.182	8.683	262.489	17.988	8.528	506.489
3-Dec-25 1:00 PM	-14.205	8.687	254.316	17.918	8.528	510.316
3-Dec-25 2:00 PM	-15.228	8.691	246.143	17.848	8.528	514.143
3-Dec-25 3:00 PM	-16.251	8.695	237.970	17.778	8.528	517.970
3-Dec-25 4:00 PM	-17.274	8.699	229.797	17.708	8.528	521.797
3-Dec-25 5:00 PM	-18.297	8.703	221.624	17.638	8.528	525.624
3-Dec-25 6:00 PM	-19.320	8.707	213.451	17.568	8.528	529.451
3-Dec-25 7:00 PM	-20.343	8.711	205.278	17.498	8.528	533.278
3-Dec-25 8:00 PM	-21.366	8.715	197.105	17.428	8.528	537.105
3-Dec-25 9:00 PM	-22.389	8.719	188.932	17.358	8.528	540.932
3-Dec-25 10:00 PM	-23.412	8.723	180.759	17.288	8.528	544.759
3-Dec-25 11:00 PM	-24.435	8.727	172.586	17.218	8.528	548.586
4-Dec-25 12:00 PM	-25.458	8.731	164.413	17.148	8.528	552.413
4-Dec-25 1:00 PM	-26.481	8.735	156.240	17.078	8.528	556.240
4-Dec-25 2:00 PM	-27.504	8.739	148.067	17.008	8.528	560.067
4-Dec-25 3:00 PM	-28.527	8.743	139.894	16.938	8.528	563.894
4-Dec-25 4:00 PM	-29.550	8.747	131.721	16.868	8.528	567.721
4-Dec-25 5:00 PM	-30.573	8.751	123.548	16.798	8.528	571.548
4-Dec-25 6:00 PM	-31.596	8.755	115.375	16.728	8.528	575.375
4-Dec-25 7:00 PM	-32.619	8.759	107.202	16.658	8.528	579.202
4-Dec-25 8:00 PM	-33.642	8.763	99.029	16.588	8.528	583.029
4-Dec-25 9:00 PM	-34.665	8.767	90.856	16.518	8.528	586.856
4-Dec-25 10:00 PM	-35.688	8.771	82.683	16.448	8.528	590.683
4-Dec-25 11:00 PM	-36.711	8.775	74.510	16.378	8.528	594.510
5-Dec-25 12:00 PM	-37.734	8.779	66.337	16.308	8.528	598.337
5-Dec-25 1:00 PM	-38.757	8.783	58.164	16.238	8.528	602.164
5-Dec-25 2:00 PM	-39.780	8.787	50.000	16.168	8.528	605.990
5-Dec-25 3:00 PM	-40.803	8.791	41.827	16.098	8.528	609.817
5-Dec-25 4:00 PM	-41.826	8.795	33.654	16.028	8.528	613.644
5-Dec-25 5:00 PM	-42.849	8.799	25.481	15.958	8.528	617.471
5-Dec-25 6:00 PM	-43.872	8.803	17.308	15.888	8.528	621.298
5-Dec-25 7:00 PM	-44.895	8.807	9.135	15.818	8.528	625.125
5-Dec-25 8:00 PM	-45.918	8.811	0.962	15.748	8.528	628.952
5-Dec-25 9:00 PM	-46.941	8.815	-1.211	15.678	8.528	632.779
5-Dec-25 10:00 PM	-47.964	8.819	-2.384	15.608	8.528	636.606
5-Dec-25 11:00 PM	-48.987	8.823	-3.557	15.538	8.528	640.433
6-Dec-25 12:00 AM	-49.999	8.827	-4.730	15.468	8.528	644.260
6-Dec-25 1:00 AM	-51.022	8.831	-5.903	15.398	8.528	648.087
6-Dec-25 2:00 AM	-52.045	8.835	-7.076	15.328	8.528	651.914
6-Dec-25 3:00 AM	-53.068	8.839	-8.249	15.258	8.528	655.741
6-Dec-25 4:00 AM	-54.091	8.843	-9.422	15.188	8.528	659.568
6-Dec-25 5:00 AM	-55.114	8.847	-10.595	15.118	8.528	663.395
6-Dec-25 6:00 AM	-56.137	8.851	-11.768	15.048	8.528	667.222
6-Dec-25 7:00 AM	-57.160	8.855	-12.941	14.978	8.528	671.049
6-Dec-25 8:00 AM	-58.183	8.859	-14.114	14.908	8.528	674.876
6-Dec-25 9:00 AM	-59.206	8.863	-15.287	14.838	8.528	678.703
6-Dec-25 10:00 PM	-60.229	8.867	-16.460	14.768	8.528	682.530
6-Dec-25 11:00 PM	-61.252	8.871	-17.633	14.698	8.528	686.357
7-Dec-25 12:00 AM	-62.275	8.875	-18.806	14.628	8.528	690.184
7-Dec-25 1:00 AM	-63.298	8.879	-19.979	14.558	8.528	694.011
7-Dec-25 2:00 AM	-64.321	8.883	-21.152	14.488	8.528	697.838
7-Dec-25 3:00 AM	-65.344	8.887	-22.325	14.418	8.528	701.665
7-Dec-25 4:00 AM	-66.367	8.891	-23.498	14.348	8.528	705.492
7-Dec-25 5:00 AM	-67.390	8.895	-24.671	14.278	8.528	709.319
7-Dec-25 6:00 AM	-68.413	8.899	-25.844	14.208	8.528	713.146
7-Dec-25 7:00 AM	-69.436	8.903	-27.017	14.138	8.528	716.973
7-Dec-25 8:00 AM	-70.459	8.907	-28.190	14.068	8.528	720.800
7-Dec-25 9:00 AM	-71.482	8.911	-29.363	13.998	8.528	724.627
7-Dec-25 10:00 PM	-72.505	8.915	-30.536	13.928	8.528	728.454
7-Dec-25 11:00 PM	-73.528	8.919	-31.709	13.858	8.528	732.281
8-Dec-25 12:00 AM	-74.551	8.923	-32.882	13.788	8.528	736.108
8-Dec-25 1:00 AM	-75.574	8.927	-34.055	13.718	8.528	739.935
8-Dec-25 2:00 AM	-76.597	8.931	-35.228	13.648	8.528	743.762
8-Dec-25 3:00 AM	-77.620	8.935	-36.401	13.578	8.528	747.589
8-Dec-25 4:00 AM	-78.643	8.939	-37.574	13.508	8.528	751.416
8-Dec-25 5:00 AM	-79.666	8.943	-38.747	13.438	8.528	755.243
8-Dec-25 6:00 AM	-80.689	8.947	-39.920	13.368	8.528	759.070
8-Dec-25 7:00 AM	-81.712	8.951	-41.093	13.298	8.528	762.897
8-Dec-25 8:00 AM	-82.735	8.955	-42.266	13.228	8.528	766.724
8-Dec-25 9:00 AM	-83.758	8.959	-43.439	13.158	8.528	770.551
8-Dec-25 10:00 PM	-84.781	8.963	-44.612	13.088	8.528	774.378
8-Dec-25 11:00 PM	-85.804	8.967	-45.785	13.018	8.528	778.205
9-Dec-25 12:00 AM	-86.827	8.971	-46.958	12.948	8.528	782.032
9-Dec-25 1:00 AM	-87.850	8.975	-48.131	12.878	8.528	785.859
9-Dec-25 2:00 AM	-88.873	8.979	-49.304	12.808	8.528	789.686
9-Dec-25 3:00 AM	-89.896	8.983	-50.477	12.738	8.528	793.513
9-Dec-25 4:00 AM	-90.919	8.987	-51.650	12.668	8.528	797.340
9-Dec-25 5:00 AM	-91.942	8.991	-52.823	12.598	8.528	801.167
9-Dec-25 6:00 AM	-92.965	8.995	-53.996	12.528	8.528	804.994
9-Dec-25 7:00 AM	-93.988	8.999	-55.169	12.458	8.528	808.821
9-Dec-25 8:00 AM	-95.011	9.003	-56.342	12.388	8.528	812.648
9-Dec-25 9:00 AM	-96.034	9.007	-57.515	12.318	8.528	816.475
9-Dec-25 10:00 PM	-97.057	9.011	-58.688	12.248	8.528	820.302
9-Dec-25 11:00 PM	-98.080	9.015	-59.861	12.178	8.528	824.129
10-Dec-25 12:00 AM	-9					

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## 1. Introduction

Date/Time	West of Hocking River				East of Hocking River			
	DOHMSBCH02K02/PV	DOHMSBCH02K04/PV	DOHMSBCH02K05/PV	DOHMSBCH02K06/PV	DOHMSBCH02K07/PV	DOHMSBCH02K08/PV	DOHMSBCH02K09/PV	DOHMSBCH02K10/PV
	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS	NEW CONDUITS
18-Nov-25 10:00 AM	80.142	8.931	594.405	29.311	7.184	1667.977	7.893	50.383
18-Nov-25 11:00 AM	78.250	7.676	595.996	29.346	7.235	1667.974	7.924	48.712
18-Nov-25 12:00 PM	78.151	7.644	595.996	29.311	7.235	1667.973	7.924	50.508
18-Nov-25 1:00 PM	74.616	7.744	719.424	30.000	7.780	1685.485	8.527	48.364
18-Nov-25 2:00 PM	74.419	7.744	719.424	30.000	7.780	1685.485	8.527	48.364
18-Nov-25 3:00 PM	74.381	7.744	719.424	30.000	7.780	1685.485	8.527	48.364
18-Nov-25 4:00 PM	74.381	7.744	719.424	30.000	7.780	1685.485	8.527	48.364
18-Nov-25 5:00 PM	77.010	8.514	773.380	31.004	7.727	1661.846	8.563	48.666
18-Nov-25 6:00 PM	80.568	8.600	800.448	30.443	7.277	1688.443	7.312	48.666
18-Nov-25 7:00 PM	77.836	8.600	773.000	30.443	7.277	1688.443	7.312	48.666
18-Nov-25 8:00 PM	76.293	8.600	770.852	30.443	7.300	1657.934	8.437	49.762
18-Nov-25 9:00 PM	75.132	8.675	761.475	30.443	7.346	1657.934	8.768	49.762
18-Nov-25 10:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 1:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 2:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 3:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 4:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 5:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 6:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 7:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 8:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 9:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 10:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 11:00 AM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.670
18-Nov-25 12:00 PM	74.226	8.596	755.896	30.443	7.427	1653.651	8.900	50.

1 liter

Date/Tag	Système de chauffage fixe				Climatisation				Climatisation			
	Système à deux circuits PV		Système à un circuit PV		Système à deux circuits PV		Système à un circuit PV		Système à deux circuits PV		Système à un circuit PV	
	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
24.Déc. 25,500.FRM	81.150	8.806	735.341	11.697	8.133	208.285	8.133	208.285	8.133	208.285	8.133	208.285
24.Déc. 26,000.FRM	32.373	8.804	745.415	11.490	8.133	208.285	8.133	208.285	8.133	208.285	8.133	208.285
24.Déc. 26,500.FRM	32.373	8.804	745.415	11.490	8.133	208.285	8.133	208.285	8.133	208.285	8.133	208.285
24.Déc. 28,000.FRM	38.180	8.190	801.087	11.199	7.907	207.012	7.906	207.012	7.906	207.012	7.906	207.012
24.Déc. 28,500.FRM	38.180	8.190	801.087	11.199	7.907	207.012	7.906	207.012	7.906	207.012	7.906	207.012
24.Déc. 28,500.FRM	38.180	8.190	801.087	11.199	7.907	207.012	7.906	207.012	7.906	207.012	7.906	207.012
24.Déc. 31,100.FRM	25.886	8.780	485.289	28.841	7.787	208.019	8.670	208.019	8.670	208.019	8.670	208.019
24.Déc. 31,100.FRM	25.886	8.780	485.289	28.841	7.787	208.019	8.670	208.019	8.670	208.019	8.670	208.019
25.Déc. 25,100.ARM	24.825	8.771	677.414	25.541	7.787	209.881	8.993	209.881	8.993	209.881	8.993	209.881
25.Déc. 25,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 25,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 26,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 27,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 28,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 29,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 30,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,100.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,200.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,300.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,400.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,500.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,600.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,700.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,800.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 31,900.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 32,000.ARM	24.539	8.770	674.403	25.741	7.725	209.746	8.905	209.746	8.905	209.746	8.905	209.746
25.Déc. 32,100.ARM	24.539	8.770	674.403	25.741								

/Gulf NLL2

## Waste Water and Cooling Tower Blowdown Water Holding Pond Online Data

Start 1:48:25:12:00 AM  
 End 31-Dec-25 11:00 PM  
 Time Interval 1 Hour

Date/Time	Waste Water Holding Pond				Cooling Tower Blowdown Water Holding Pond			
	INSTRUMENT CODE/NO. PV	INSTRUMENT CODE/NO. PV	INSTRUMENT CODE/NO. PV	UNIT	INSTRUMENT CODE/NO. PV	INSTRUMENT CODE/NO. PV	INSTRUMENT CODE/NO. PV	UNIT
	RAW TEMP	RAW PH	RAW CONDUCT		CT BLLOWDOWN TEMP	CT BLLOWDOWN PH	CT BLLOWDOWN CONDUCT	
	celcius		uS/cm		celcius		uS/cm	
29-Dec-25 5:00 PM	30.545	8.029	762.116		27.509	782.1216	7.599	80.479
29-Dec-25 6:00 PM	30.495	8.035	764.077		27.722	784.138	7.436	83.479
29-Dec-25 7:00 PM	29.983	8.053	764.738		27.572	785.4129	8.530	85.038
29-Dec-25 8:00 PM	29.671	8.183	765.803		27.991	785.135	8.898	87.484
29-Dec-25 9:00 PM	29.363	7.953	763.185		27.777	777.4421	9.265	88.421
29-Dec-25 10:00 PM	29.053	7.869	764.337		27.909	788	9.592	88.448
29-Dec-25 11:00 PM	28.743	7.797	774.992		25.177	797.779	9.933	89.448
30-Dec-25 12:00 AM	28.543	7.748	782.944		24.901	809.181	10.138	100.176
30-Dec-25 1:00 AM	28.303	7.698	798.958		21.561	7827	10.241	101.709
30-Dec-25 2:00 AM	28.119	7.672	772.901		21.896	7747.012	10.613	97.463
30-Dec-25 3:00 AM	28.051	7.561	778.035		21.395	7741.395	10.608	97.462
30-Dec-25 4:00 AM	27.895	7.505	795.838		21.779	7738.772	10.682	98.474
30-Dec-25 5:00 AM	27.738	7.481	772.472		21.754	7728.189	11.656	97.455
30-Dec-25 6:00 AM	27.635	7.457	677.477		21.241	7677	11.384	98.564
30-Dec-25 7:00 AM	27.519	7.433	656.741		21.748	7766.082	10.857	100.790
30-Dec-25 8:00 AM	27.472	7.499	653.294		22.465	7862.029	10.864	100.572
30-Dec-25 9:00 AM	27.327	7.588	655.433		23.535	7769.186	9.095	102.639
30-Dec-25 10:00 AM	27.548	7.408	649.443		24.905	7766	7.237	101.847
30-Dec-25 11:00 AM	27.825	7.428	648.805		26.608	7949.001	8.625	101.304
30-Dec-25 12:00 PM	28.130	7.440	648.057		28.436	7944.176	6.538	101.044
30-Dec-25 1:00 PM	28.517	7.503	647.265		28.850	7738	5.705	101.304
30-Dec-25 2:00 PM	28.896	7.563	646.414		30.086	7788.953	5.553	100.176
30-Dec-25 3:00 PM	30.030	7.624	645.687		30.835	7780	5.484	100.071
30-Dec-25 4:00 PM	30.000	7.624	645.687		30.835	7780	5.484	100.071
30-Dec-25 5:00 PM	30.361	7.659	648.721		30.501	7764	7.162	100.540
30-Dec-25 6:00 PM	30.006	7.813	650.991		30.014	7764	8.135	101.742
30-Dec-25 7:00 PM	29.003	7.545	1.729		28.417	7722	8.704	101.658
30-Dec-25 8:00 PM	28.054	7.505	1.730		28.896	7799.514	9.034	101.181
30-Dec-25 9:00 PM	28.524	7.899	1.071		28.385	7777	8.906	100.528
30-Dec-25 10:00 PM	28.112	7.488	0.991		27.885	8001.492	8.695	100.136
30-Dec-25 11:00 PM	27.726	7.195	0.974		27.457	8005.129	9.997	100.196
31-Dec-25 12:00 AM	27.585	7.595	0.835		27.041	8006.766	10.284	100.361
31-Dec-25 1:00 AM	27.444	7.395	0.756		26.487	8008.200	10.466	100.761
31-Dec-25 2:00 AM	28.911	7.264	0.677		26.425	8013.185	10.567	100.186
31-Dec-25 3:00 AM	28.963	7.241	0.675		26.174	8012.077	10.656	100.635
31-Dec-25 4:00 AM	28.288	7.223	0.793		25.961	8011.052	10.844	100.524
31-Dec-25 5:00 AM	28.961	7.265	0.932		24.801	8011.511	11.052	100.705
31-Dec-25 6:00 AM	28.364	7.188	1.031		25.683	8013.975	11.281	100.930
31-Dec-25 7:00 AM	28.195	7.171	1.150		25.488	8014.459	11.459	100.476
31-Dec-25 8:00 AM	27.307	7.040	1.309		25.806	8014.898	10.907	105.548
31-Dec-25 9:00 AM	27.247	8.895	1.388		26.495	8012.247	9.180	104.406
31-Dec-25 10:00 AM	28.471	7.423	1.114		27.922	7984.633	7.580	102.185
31-Dec-25 11:00 AM	28.481	7.448	1399.188		28.277	7988	7.772	99.509
31-Dec-25 12:00 PM	28.598	7.473	1350.968		30.772	7994	6.931	98.626
31-Dec-25 1:00 PM	28.575	7.488	1461.411		31.381	7753.687	6.026	97.147
31-Dec-25 2:00 PM	29.272	7.527	1773.487		30.489	7978	5.783	94.538
31-Dec-25 3:00 PM	29.628	7.547	1739.863		30.362	7942.337	6.360	94.167
31-Dec-25 4:00 PM	29.985	7.571	1712.051		30.305	7993.867	5.867	93.134
31-Dec-25 5:00 PM	30.132	7.596	1771.630		29.786	7994.245	6.471	93.376
31-Dec-25 6:00 PM	29.993	7.605	1727.033		29.491	7786.907	7.780	96.225
31-Dec-25 7:00 PM	29.568	7.619	1718.925		29.071	8011.104	8.501	98.401
31-Dec-25 8:00 PM	29.007	7.635	1706.207		28.708	8067.804	8.980	98.926
31-Dec-25 9:00 PM	28.509	7.557	1695.485		28.508	8001.196	8.256	99.499
31-Dec-25 10:00 PM	27.666	7.166	1.517		28.986	7998.544	9.825	99.261
31-Dec-25 11:00 PM	27.997	7.079	1.503		28.436	7999.503	9.976	100.859

## ภาคผนวก ค-6

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ผลการติดตามคุณภาพน้ำทิ้งแบบรายปี



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0042  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-1

Page 1 of 2

Sample Number 2562131-1  
Sampled Date Jul 08, 2025 2:15 PM  
Sample Description Wastewater  
Location วนอุทยานชีวะ (Waste water holding pond)  
Date Analysis Commenced Jul 08, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - C (C, F)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5320 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
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5330 B, D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - G (F)	Rayong

Technical Management

Jitsupa P.  
Jitsupa Pratsangskul  
Scientist (2)  
โทรศัพท์มือถือ 3-323-4-0004

Approved by

D. Chongchon  
Dej Chongchon  
Senior Manager  
โทรศัพท์มือถือ 3-323-4-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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S/Team, AE, GL,net (7-4PM)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0042  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-1

Page 2 of 2

Sample Number 2562131-1  
Sampled Date Jul 08, 2025 2:15 PM  
Sample Description Wastewater  
Location วนอุทยานชีวะ (Waste water holding pond)  
Date Analysis Commenced Jul 08, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Sulfide *	mg/L	-	0.5	<0.5	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.1	≤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	<42	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<4	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NHD (D)	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, 24th ed., 2023, part 2540 D	Rayong

Guideline : Standard of WWA (Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant (Expansion and Remaining Area after July 2011))

Sampling By : สุรวดี นารอง วนอุทยานชีวะ 3-323-4-0011, Samart Khumplee วนอุทยานชีวะ 3-204-4-0084

Remarks :

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

Technical Management

Jitsupa P.  
Jitsupa Pratsangskul  
Scientist (2)  
โทรศัพท์มือถือ 3-323-4-0004

Approved by

D. Chongchon  
Dej Chongchon  
Senior Manager  
โทรศัพท์มือถือ 3-323-4-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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S/Team, AE, GL,net (7-4PM)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-2

Page 1 of 5

Sample Number 2562131-1  
Sampled Date Jul 08, 2025 2:15 PM  
Sample Description Wastewater  
Location วนอุทยานชีวะ (Waste water holding pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	1.003	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Bismuth	mg/L	0.0003	0.0005	1.09	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	1.001	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	1.13	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Management

Chamatt L.  
Chamattagorn Imchom  
Section Head  
โทรศัพท์มือถือ 3-204-4-0006

Approved by

Kanokkorn Anek  
Assistant General Manager  
โทรศัพท์มือถือ 3-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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S/Team, AE, GL,net (7-4PM)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-2

Page 2 of 5

Sample Number 2562131-1  
Sampled Date Jul 08, 2025 2:15 PM  
Sample Description Wastewater  
Location วนอุทยานชีวะ (Waste water holding pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Nickel	mg/L	0.0003	0.0005	1.0010	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.04	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chamatt L.  
Chamattagorn Imchom  
Section Head  
โทรศัพท์มือถือ 3-204-4-0006

Approved by

Kanokkorn Anek  
Assistant General Manager  
โทรศัพท์มือถือ 3-204-4-0004

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-2

Page 3 of 5

Sample Number : 2562131-1  
Sampled Date : Jul 08, 2025 2:15 PM  
Sample Description : Wastewater  
Location : เขตรักษาพันธุ์สัตว์ป่า (Waste water holding pond)  
Date Analysis Commenced : Jul 09, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
4,4-DDO *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

*Chamatt L.*

Approved by

*Kanokorn Anek*

Chamattaporn Imchom  
Section Head  
โทร: 09-0909090

Kanokorn Anek  
Assistant General Manager  
โทร: 09-0909090

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S/Report, AL GL (net 7-4PM)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-2

Page 4 of 5

Sample Number : 2562131-1  
Sampled Date : Jul 08, 2025 2:15 PM  
Sample Description : Wastewater  
Location : เขตรักษาพันธุ์สัตว์ป่า (Waste water holding pond)  
Date Analysis Commenced : Jul 09, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxyde *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

*Chamatt L.*

Approved by

*Kanokorn Anek*

Chamattaporn Imchom  
Section Head  
โทร: 09-0909090

Kanokorn Anek  
Assistant General Manager  
โทร: 09-0909090

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S/Report, AL GL (net 7-4PM)



## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-2

Page 5 of 5

Sample Number : 2562131-1  
Sampled Date : Jul 08, 2025 2:15 PM  
Sample Description : Wastewater  
Location : เขตรักษาพันธุ์สัตว์ป่า (Waste water holding pond)  
Date Analysis Commenced : Jul 09, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant (Expansion and Remaining Area after July 2011)

Sampling By : สุรเวทย์ นารอง โทร: 09-0909090, สมาร์ท ขุมพล โทร: 09-0909090

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

Technical Management

*Chamatt L.*

Approved by

*Kanokorn Anek*

Chamattaporn Imchom  
Section Head  
โทร: 09-0909090

Kanokorn Anek  
Assistant General Manager  
โทร: 09-0909090

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346650-3

Page 1 of 1

Sample Number : 2562131-1  
Sampled Date : Jul 08, 2025 2:15 PM  
Sample Description : Wastewater  
Location : เขตรักษาพันธุ์สัตว์ป่า (Waste water holding pond)  
Date Analysis Commenced : Jul 09, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	mg/L	0.003	0.005	1.42	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Pesticides - Organochlorine Group</b>							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
<b>Water Testing</b>							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	1.13	≤30	Based on Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

Technical Management

*Chamatt L.*

Approved by

*Kanokorn Anek*

Chamattaporn Imchom  
Section Head  
โทร: 09-0909090

Kanokorn Anek  
Assistant General Manager  
โทร: 09-0909090

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNL2

TESTING  
No.0009  
Lot ID: 2562131  
Date Received : Jul 08, 2025  
Date Reported : Jul 30, 2025  
Report Number : 3346680-1

Page 2 of 2

Sample Number	2562131-1						
Sampled Date	Jul 08, 2025 2:15 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพายุ (Waste water holding pond)						
Date Analysis Commenced	Jul 09, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and eleven plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Chloride as Cl *	mg/L	0.5	1	14	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-C (D)	Rayong
Fluoride as F *	mg/L	0.06	0.2	1.4	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Gross alpha activity *	Bq/L	0.018	0.063	Not Detected	Not Detected	In-house method based on United States Environmental Protection Agency, EPA Method 900.0 Section I and EPA-600/4-90-032 (1990)	Bangkok
Gross beta activity *	Bq/L	0.012	0.063	1.346 ± 0.028	Not Detected	In-house method based on United States Environmental Protection Agency, EPA Method 900.0 Section I and EPA-600/4-90-032 (1990)	Bangkok

Guideline : Standard of WHA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.(Expansion and Remaining Area after July 2011)

Note : Gross alpha activity and Gross beta activity analysis has been subcontracted to outsource lab.

Sampling By : Surawit Narapong , Samart Khumpluee

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

Approved by

Charatt L.  
Charattang Trichom  
Section Head

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNL2

TESTING  
No.0042  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 16, 2025  
Report Number : 3346680-1

Page 1 of 2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพายุ (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	18	≤120	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	20	≤300	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	18	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as CH	mg/L	0.001	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-CH (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1.0	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	13	≤5	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5320 B	Rayong
pH at 25 degree C	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5330 B, D	Rayong

Technical Management

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

Approved by

Dei Chongchon  
Senior Manager  
โทรศัพท์ 3-323-4-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNL2

TESTING  
No.0042  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 16, 2025  
Report Number : 3346680-1

Page 2 of 2

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพายุ (CT blowdown pond)						
Date Analysis Commenced	Jul 08, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	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	1960	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.9	≤100	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-norg (C), part NHO (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤50	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampling By : Surawit Narapong โทรศัพท์ 3-323-4-0011 , Samart Khumpluee โทรศัพท์ 3-323-4-0004

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

Technical Management

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

Approved by

Dei Chongchon  
Senior Manager  
โทรศัพท์ 3-323-4-0001

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## Analysis / Test Report

Client : Gulf NLL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-2

Page 1 of 5

Sample Number	2562139-1						
Sampled Date	Jul 08, 2025 1:54 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพายุ (CT blowdown pond)						
Date Analysis Commenced	Jul 09, 2025						
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Arsenic	mg/L	0.0003	0.0005	1.03	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	1.81	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	1.01	≤2.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	1.001	≤0.2	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	1.35	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3113	Bangkok

Technical Management

Siriluk P.  
Siriluk Burak  
Section Head  
โทรศัพท์ 3-323-4-0013

Approved by

Kanokorn Anek  
Assistant General Manager  
โทรศัพท์ 3-323-4-0004

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5/Specimen, AL GL (net 1:1000)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-2

Page 2 of 5

Sample Number 2562139-1  
Sampled Date Jul 08, 2025 1:54 PM  
Sample Description Wastewater  
Location แหล่งน้ำไหลบ่า (CT blowdown pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Nickel	mg/L	0.0003	0.0005	1.007	≤1.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	1.002	≤0.02	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.60	≤5.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDO *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Siriluk P.

Siriluk Burmak  
Section Head  
โทรศัพท์ ๖-204-๖-0013

Approved by

Kankorn Anek

Kankorn Anek  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-0004

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S/Specimen, AL GL (๖-11099)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-2

Page 3 of 5

Sample Number 2562139-1  
Sampled Date Jul 08, 2025 1:54 PM  
Sample Description Wastewater  
Location แหล่งน้ำไหลบ่า (CT blowdown pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
4,4-DDO *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

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Approved by

Kankorn Anek

Kankorn Anek  
Assistant General Manager  
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S/Specimen, AL GL (๖-11099)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-2

Page 4 of 5

Sample Number 2562139-1  
Sampled Date Jul 08, 2025 1:54 PM  
Sample Description Wastewater  
Location แหล่งน้ำไหลบ่า (CT blowdown pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxyde *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Siriluk P.

Siriluk Burmak  
Section Head  
โทรศัพท์ ๖-204-๖-0013

Approved by

Kankorn Anek

Kankorn Anek  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-0004

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S/Specimen, AL GL (๖-11099)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-2

Page 5 of 5

Sample Number 2562139-1  
Sampled Date Jul 08, 2025 1:54 PM  
Sample Description Wastewater  
Location แหล่งน้ำไหลบ่า (CT blowdown pond)  
Date Analysis Commenced Jul 09, 2025  
Condition of Sample Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

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

**Sampling By :** Surewit Nangpang โทรศัพท์ ๖-323-๖-0011, Samant Khumprinee โทรศัพท์ ๖-204-๖-0004

Remarks :  
- 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.  
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Siriluk P.

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Approved by

Kankorn Anek

Kankorn Anek  
Assistant General Manager  
โทรศัพท์ ๖-204-๖-0004

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S/Specimen, AL GL (๖-11099)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-3

Page 1 of 2

Sample Number : 2562139-1  
Sampled Date : Jul 08, 2025 1:54 PM  
Sample Description : Wastewater  
Location : ตึกคอกน้ำเขาสก (CT blowdown pond)  
Date Analysis Commenced : Jul 08, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and nine plastic 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 *	mmol/L	0.002	0.004	1.37	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mmol/L	0.002	0.004	1.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	1.16	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mmol/L	0.002	0.004	3.6	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Pesticides - Organochlorine Group</b>							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
<b>Water Testing</b>							

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Siriluk Burmak  
Section Head

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5/Report\_ALS\_01 (1.0199)



## Analysis / Test Report

Client : Gulf NL2 Co., Ltd.  
399 Moo 3, Nong La Lork, Ban Khai, Rayong Thailand 21120  
P/O : 4210901926  
Project Name : Monitoring EIA  
Project Location : GNLL2

TESTING  
No.0009  
Lot ID: 2562139  
Date Received : Jul 08, 2025  
Date Reported : Jul 17, 2025  
Report Number : 3346680-3

Page 2 of 2

Sample Number : 2562139-1  
Sampled Date : Jul 08, 2025 1:54 PM  
Sample Description : Wastewater  
Location : ตึกคอกน้ำเขาสก (CT blowdown pond)  
Date Analysis Commenced : Jul 08, 2025  
Condition of Sample : Contained in two glass vials, three amber glass bottles and nine plastic 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>							
Chloride *	mg/L	0.05	0.1	1.16	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	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Odour *	-	-	-	Odourless	-	TIS, 257-2549	Rayong

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

**Sampling By :** Surawit Narapong , Samart Khumplinee

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

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1408-41/0166

5/Report\_ALS\_01 (1.0199)

# ภาคผนวก ค-7

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สถิติอุบัติเหตุ

## Safety Statistic

Safety Statistics 2025	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Accumulate since last LTI
<b>EMPLOYEE</b>														
1. Average number of employees	34	34	34	35	35	34	35	35	35	35	35	35		
2. Risk hours / Man-hour	5,803.5	5,553	6,992	5,711	5,827	5,608	6,209	5,999.5	6,188.5	6,243	5,925	6,257.5	72,317	531,741.5
3. Number of Fatal accidents	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Number of Accident bodily injuries > 1 lost workday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Number of work leave days	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Number of injuries requiring first aid	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Number of injuries requiring doctor assistance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Number of days worked since last lost workday injury. (beginning with next shift worked after lost time accident)	31	28	31	30	31	30	31	31	30	31	30	31	365	2,557
9. Date of last lost work day injury (COD on January 1 <sup>st</sup> , 2019)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>NON-EMPLOYEE</b>														
10. Risk hours / Man hour	5,749	5,764.5	18,201	4,631	4,387	4,442.5	4,887	4,646.5	4,797	4,613.5	4,561.5	7,153.5	73,834	538,132
11. Number of Accident bodily injuries > 1 lost workday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Number of work leave days	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## ภาคผนวก ค-8

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ข้อมูลการเจ็บป่วยของประชาชนในรัศมี 5 กิโลเมตร

## รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)

ประจำเดือน มกราคม 2568 (วันที่ตัดยอดรายงาน 1 ม.ค. 2568 31 ธ.ค. 2568)

สถานบริการ(รพ. สต. /pcu): รพ.สต.บ้านละหารไร่ ตำบลหนองละลอก อำเภอบ้านค่าย จังหวัดระยอง

ชื่อผู้ออกรายงาน

วันที่ออกรายงาน

14 ม.ค. 69

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	23
02	C00-C97 D00-D48	เนื้องอก (รวมมะเร็ง) Neoplasms	
03	D50-D89	โรคเลือดและอวัยวะสร้างเลือด และความผิดปกติเกี่ยวกับภูมิคุ้มกัน .... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โภชนาการ และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	6
05	F00 - F99	ภาวะแปรปรวนทางจิตและพฤติกรรม.....Mental and behavioural disorders	4
06	G00 -G99	โรกระบบประสาท.....Disease of the nervous system	2
07	H00 - H59	โรคตาารวมส่วนประกอบของตา.....disease of the eye and adnexa	74
08	H60 - H95	โรคหูและปุ่มกกหู.....Diseases of the ear and mastoid process	5
09	I00 - I99	โรกระบบไหลเวียนเลือด.....Diseases of the circulatory system	8
10	J00 - J99	โรกระบบหายใจ.....Diseases of the respiratory system	631
11	K00 - K93	โรกระบบย่อยอาหาร รวมโรคในช่องปาก.....Diseases of the digestive system	187
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง.....Diseases of the skin and subcutaneous tissue	9
13	M00 - M99	โรกระบบกล้ามเนื้อ รวมโครงร่าง และเนื้อเยื่อเสริม..... Diseases of the musculoskeletal system and connective tissue	314
14	N00 - N99	โรกระบบสืบพันธุ์ร่วมปัสสาวะ.....Diseases of the genitourinary system	25
15	O00-O99 ยกเว้น O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	
16	P00 - P96	ภาวะผิดปกติของทารกที่เกิดขึ้นในระยะปริกำเนิด (อายุครรภ์ 22 สัปดาห์ขึ้นไปจนถึง 7 วันหลังคลอด ).....Certain conditions originating in the perinatal period	
17	Q00 - Q99	รูปร่างผิดปกติแต่กำเนิด การพิการจนผิดรูปแต่กำเนิดและโครโมโซม ผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและทางอภิปฐิติการที่ไม่สามารถจำแนกโรคในกลุ่มอื่นได้	698

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
19	X40-X49 X60-X69 X85-X90 Y10-การเป็นพิษและผลที่ตามมา... Y19		
20	v01-v99 y85	อุบัติเหตุจากการขนส่งและผลที่ตามมา..... Transport accidents and their sequelae....	
21	w00-ww99 x00-x19 x20-x29 x30-x39 x50-59 x70-x84 x91-x99 y00-y09 y20-y36 y40-y84 y86-y89	สาเหตุจากภายนอกอื่นๆ ที่ทำให้ป่วยหรือตาย..... Other external causes of morbidity and mortality (eg: accidents, injuries, intentional self-harm, assault, animals and plants, complications of medical and surgical care and other unspecified causes)	
22	U50 - U52	โรคของสตรี	1
23	U54 - U55	โรคของเด็ก	
24	U56 - U60	โรคที่เกิดอาการหลายระบบ	
25	U61 - U72	โรคที่เกิดเฉพาะตำแหน่ง	27
26	U74 - U75	โรคและอาการอื่น	13
27	U77	การส่งเสริมสุขภาพและการป้องกันโรค	132
99	Z00 - Z99.999	กลุ่มไม่นับ 504 (ไม่ใช่โรค)	4,843
รวม			7,002

รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค) ประจำเดือน มกราคม 2568 (วันที่คัดยอรายงาน 1 ม.ค. 2568-31 ธ.ค.

สถานบริการ(รพ. สต. /pcu): รพ.สต.หมื่นบ้านตัวอย่าง ตำบลหนองละลอก อำเภอบ้านค่าย จังหวัดระยอง

ชื่อผู้ออกรายงาน วันที่ออกรายงาน 14 ม.ค. 69

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	47
02	C00-C97 D00-D48	เนื้องอก (รวมมะเร็ง) Neoplasms	2
03	D50-D89	โรคเลือดและอวัยวะสร้างเลือด และความผิดปกติเกี่ยวกับภูมิคุ้มกัน .... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โภชนาการ และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	84
05	F00 - F99	ภาวะแปรปรวนทางจิตและพฤติกรรม.....Mental and behavioural disorders	12
06	G00 -G99	โรกระบบประสาท.....Disease of the nervous system	18
07	H00 - H59	โรคตาบางส่วนประกอบของตา.....disease of the eye and adnexa	65
08	H60 - H95	โรคหูและปุ่มกกหู.....Diseases of the ear and mastoid process	4
09	I00 - I99	โรกระบบไหลเวียนเลือด.....Diseases of the circulatory system	129
10	J00 - J99	โรกระบบหายใจ.....Diseases of the respiratory system	520
11	K00 - K93	โรกระบบย่อยอาหาร รวมโรคในช่องปาก.....Diseases of the digestive system	92
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง.....Diseases of the skin and subcutaneous tissue	62
13	M00 - M99	โรกระบบกล้ามเนื้อ รวมโครงร่าง และเนื้อเยื่อเสริม..... Diseases of the musculoskeletal system and connective tissue	245
14	N00 - N99	โรกระบบสืบพันธุ์ร่วมปัสสาวะ.....Diseases of the genitourinary system	97
15	O00-O99 ยกเว้น O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	
16	P00 - P96	ภาวะผิดปกติของทารกที่เกิดขึ้นในระยะปริกำเนิด (อายุครรภ์ 22 สัปดาห์ขึ้นไปจนถึง 7 วันหลังคลอด ).....Certain conditions originating in the perinatal period	
17	Q00 - Q99	รูปร่างผิดปกติแต่กำเนิด การพิการจนผิดรูปแต่กำเนิดและโครโมโซม ผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและทางอภิปฏบัติการที่ไม่สามารถจำแนกโรคในกลุ่มอื่นได้	386

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
19	X40-X49 X60-X69 X85-X90 Y10-การเป็นพิษและผลที่ตามมา... Y19		
20	v01-v99 y85	อุบัติเหตุจากการขนส่งและผลที่ตามมา..... Transport accidents and their sequelae....	9
21	w00-ww99 x00-x19 x20-x29 x30-x39 x50-59 x70-x84 x91-x99 y00-y09 y20-y36 y40-y84 y86-y89	สาเหตุจากภายนอกอื่นๆ ที่ทำให้ป่วยหรือตาย..... Other external causes of morbidity and mortality (eg: accidents, injuries, intentional self-harm, assault, animals and plants, complications of medical and surgical care and other unspecified causes)	22
22	U50 - U52	โรคของสตรี	
23	U54 - U55	โรคของเด็ก	
24	U56 - U60	โรคที่เกิดอาการหลายระบบ	5
25	U61 - U72	โรคที่เกิดเฉพาะตำแหน่ง	12
26	U74 - U75	โรคและอาการอื่น	3
27	U77	การส่งเสริมสุขภาพและการป้องกันโรค	248
99	Z00 - Z99.999	กลุ่มไม่นับ 504 (ไม่ใช่โรค)	10,208
รวม			12,270

ฉบับ ๙1.504				
รายงานประจำปีของคณะกรรมการ (21 กุมภาพันธ์)		ฉบับที่ ๒๕๖๒ (ฉบับแก้ไขเพิ่มเติม 1 ค.ย. 2563 31 ค.ย. 2568)		
คณะกรรมการ: ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ		จำนวน: 16 ค.ย. ๙๑		
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	32	
02	C00-C97 D00-D48	เนื้องอก (tumors) Neoplasms	3	
03	D50-D89	โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติทางโลหิตวิทยา ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	1	
04	E00 - E90	โรคต่อมไร้ท่อและเมตาบอลิซึม โรคทางกายและเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	113	
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม.....Mental and behavioural disorders	5	
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system		
07	H00 - H59	โรคตาและอวัยวะที่เกี่ยวข้อง.....disease of the eye and adnexa	14	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	1	
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	110	
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	209	
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหาร.....Diseases of the digestive system	65	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	13	
13	M00 - M99	โรคระบบกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	61	
14	N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....Diseases of the genitourinary system	12	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	3	
16	P00 - P96	ภาวะผิดปกติของทารกที่คลอดก่อนกำหนด (ภาวะแทรกซ้อน 22 สัปดาห์ก่อนคลอด) .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติของทารกที่เกิดจากการผิดปกติทางโครโมโซม โรคโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการวินิจฉัยทางกายวิภาควิทยา	73	
รวม			5,115	
๙1.504 หน้า 1/ 2			๙1.504 หน้า 2/ 2	

ฉบับ ๙1.504				
รายงานประจำปีของคณะกรรมการ (21 กุมภาพันธ์)		ฉบับที่ ๒๕๖๒ (ฉบับแก้ไขเพิ่มเติม 1 ค.ย. 2563 31 ค.ย. 2568)		
คณะกรรมการ: ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ		จำนวน: 16 ค.ย. ๙๑		
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	30	
02	C00-C97 D00-D48	เนื้องอก (tumors) Neoplasms	15	
03	D50-D89	โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติทางโลหิตวิทยา ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	2	
04	E00 - E90	โรคต่อมไร้ท่อและเมตาบอลิซึม โรคทางกายและเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	60	
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม.....Mental and behavioural disorders	9	
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system	2	
07	H00 - H59	โรคตาและอวัยวะที่เกี่ยวข้อง.....disease of the eye and adnexa	11	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	1	
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	64	
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	132	
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหาร.....Diseases of the digestive system	48	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	17	
13	M00 - M99	โรคระบบกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	49	
14	N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....Diseases of the genitourinary system	14	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium		
16	P00 - P96	ภาวะผิดปกติของทารกที่คลอดก่อนกำหนด (ภาวะแทรกซ้อน 22 สัปดาห์ก่อนคลอด) .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติของทารกที่เกิดจากการผิดปกติทางโครโมโซม โรคโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการวินิจฉัยทางกายวิภาควิทยา	94	
รวม			3,909	
๙1.504 หน้า 1/ 2			๙1.504 หน้า 2/ 2	

ฉบับ ๙1.504				
รายงานประจำปีของคณะกรรมการ (21 กุมภาพันธ์)		ฉบับที่ ๒๕๖๒ (ฉบับแก้ไขเพิ่มเติม 1 ค.ย. 2563 31 ค.ย. 2568)		
คณะกรรมการ: ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ		จำนวน: 16 ค.ย. ๙๑		
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	31	
02	C00-C97 D00-D48	เนื้องอก (tumors) Neoplasms	21	
03	D50-D89	โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติทางโลหิตวิทยา ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	1	
04	E00 - E90	โรคต่อมไร้ท่อและเมตาบอลิซึม โรคทางกายและเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	50	
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม.....Mental and behavioural disorders	11	
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system	5	
07	H00 - H59	โรคตาและอวัยวะที่เกี่ยวข้อง.....disease of the eye and adnexa	16	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	2	
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	57	
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	132	
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหาร.....Diseases of the digestive system	66	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	12	
13	M00 - M99	โรคระบบกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	48	
14	N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....Diseases of the genitourinary system	21	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	3	
16	P00 - P96	ภาวะผิดปกติของทารกที่คลอดก่อนกำหนด (ภาวะแทรกซ้อน 22 สัปดาห์ก่อนคลอด) .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติของทารกที่เกิดจากการผิดปกติทางโครโมโซม โรคโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการวินิจฉัยทางกายวิภาควิทยา	82	
รวม			4,390	
๙1.504 หน้า 1/ 2			๙1.504 หน้า 2/ 2	

ฉบับ ๙1.504				
รายงานประจำปีของคณะกรรมการ (21 กุมภาพันธ์)		ฉบับที่ ๒๕๖๒ (ฉบับแก้ไขเพิ่มเติม 1 ค.ย. 2563 31 ค.ย. 2568)		
คณะกรรมการ: ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ จำนวนผู้รับ ๙๑ (๒๐) แห่งๆ		จำนวน: 16 ค.ย. ๙๑		
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	27	
02	C00-C97 D00-D48	เนื้องอก (tumors) Neoplasms	18	
03	D50-D89	โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติทางโลหิตวิทยา ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04	E00 - E90	โรคต่อมไร้ท่อและเมตาบอลิซึม โรคทางกายและเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	71	
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม.....Mental and behavioural disorders	7	
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system	1	
07	H00 - H59	โรคตาและอวัยวะที่เกี่ยวข้อง.....disease of the eye and adnexa	12	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	5	
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	87	
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	92	
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหาร.....Diseases of the digestive system	55	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	14	
13	M00 - M99	โรคระบบกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	42	
14	N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....Diseases of the genitourinary system	9	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	2	
16	P00 - P96	ภาวะผิดปกติของทารกที่คลอดก่อนกำหนด (ภาวะแทรกซ้อน 22 สัปดาห์ก่อนคลอด) .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติของทารกที่เกิดจากการผิดปกติทางโครโมโซม โรคโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการวินิจฉัยทางกายวิภาควิทยา	88	
รวม			2,046	
๙1.504 หน้า 1/ 2			๙1.504 หน้า 2/ 2	

ตารางบัญชีโรคและกลุ่มอาการทาง (21 กลุ่ม)		บัญชีโรคและกลุ่มอาการทาง (21 กลุ่ม)		บัญชีโรคและกลุ่มอาการทาง (21 กลุ่ม)	
รหัสโรค	ชื่อโรค	รหัสโรค	ชื่อโรค	รหัสโรค	ชื่อโรค
01 A00 - A99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	01 A00 - A99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	01 A00 - A99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)
02 C00-C97	เนื้องอก (tumors) Neoplasms	02 C00-C97	เนื้องอก (tumors) Neoplasms	02 C00-C97	เนื้องอก (tumors) Neoplasms
03 D50-D89	โรคเลือดและโรคทางโลหิต และภาวะผิดปกติของภูมิคุ้มกัน (Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism)	03 D50-D89	โรคเลือดและโรคทางโลหิต และภาวะผิดปกติของภูมิคุ้มกัน (Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism)	03 D50-D89	โรคเลือดและโรคทางโลหิต และภาวะผิดปกติของภูมิคุ้มกัน (Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism)
04 E90 - E99	โรคเกี่ยวกับระบบต่อมไร้ท่อ โรคทางโภชนาการ และโรคเมตาบอลิซึม (Endocrine, nutritional and metabolic diseases)	04 E90 - E99	โรคเกี่ยวกับระบบต่อมไร้ท่อ โรคทางโภชนาการ และโรคเมตาบอลิซึม (Endocrine, nutritional and metabolic diseases)	04 E90 - E99	โรคเกี่ยวกับระบบต่อมไร้ท่อ โรคทางโภชนาการ และโรคเมตาบอลิซึม (Endocrine, nutritional and metabolic diseases)
05 F00 - F99	ความผิดปกติทางจิตและพฤติกรรม (Mental and behavioural disorders)	05 F00 - F99	ความผิดปกติทางจิตและพฤติกรรม (Mental and behavioural disorders)	05 F00 - F99	ความผิดปกติทางจิตและพฤติกรรม (Mental and behavioural disorders)
06 G00 - G99	โรคระบบประสาท (Disease of the nervous system)	06 G00 - G99	โรคระบบประสาท (Disease of the nervous system)	06 G00 - G99	โรคระบบประสาท (Disease of the nervous system)
07 H00 - H59	โรคระบบการมองเห็น (Disease of the eye and adnexa)	07 H00 - H59	โรคระบบการมองเห็น (Disease of the eye and adnexa)	07 H00 - H59	โรคระบบการมองเห็น (Disease of the eye and adnexa)
08 H60 - H95	โรคหูและคอ (Diseases of the ear and mastoid process)	08 H60 - H95	โรคหูและคอ (Diseases of the ear and mastoid process)	08 H60 - H95	โรคหูและคอ (Diseases of the ear and mastoid process)
09 I00 - I99	โรคระบบไหลเวียนโลหิต (Diseases of the circulatory system)	09 I00 - I99	โรคระบบไหลเวียนโลหิต (Diseases of the circulatory system)	09 I00 - I99	โรคระบบไหลเวียนโลหิต (Diseases of the circulatory system)
10 J00 - J99	โรคระบบทางเดินหายใจ (Diseases of the respiratory system)	10 J00 - J99	โรคระบบทางเดินหายใจ (Diseases of the respiratory system)	10 J00 - J99	โรคระบบทางเดินหายใจ (Diseases of the respiratory system)
11 K00 - K93	โรคระบบย่อยอาหาร ทางเดินของน้ำ.....(Diseases of the digestive system)	11 K00 - K93	โรคระบบย่อยอาหาร ทางเดินของน้ำ.....(Diseases of the digestive system)	11 K00 - K93	โรคระบบย่อยอาหาร ทางเดินของน้ำ.....(Diseases of the digestive system)
12 L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....(Diseases of the skin and subcutaneous tissue)	12 L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....(Diseases of the skin and subcutaneous tissue)	12 L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....(Diseases of the skin and subcutaneous tissue)
13 M00 - M99	โรคระบบกล้ามเนื้อ ระบบโครงกระดูก และเนื้อเยื่อเกี่ยวพัน.....(Diseases of the musculoskeletal system and connective tissue)	13 M00 - M99	โรคระบบกล้ามเนื้อ ระบบโครงกระดูก และเนื้อเยื่อเกี่ยวพัน.....(Diseases of the musculoskeletal system and connective tissue)	13 M00 - M99	โรคระบบกล้ามเนื้อ ระบบโครงกระดูก และเนื้อเยื่อเกี่ยวพัน.....(Diseases of the musculoskeletal system and connective tissue)
14 N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....(Diseases of the genitourinary system)	14 N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....(Diseases of the genitourinary system)	14 N00 - N99	โรคระบบสืบพันธุ์และทางเดิน.....(Diseases of the genitourinary system)
15 O00-O99	การตั้งครรภ์ การคลอด และภาวะหลังคลอด.....(Complication of pregnancy, childbirth and the puerperium)	15 O00-O99	การตั้งครรภ์ การคลอด และภาวะหลังคลอด.....(Complication of pregnancy, childbirth and the puerperium)	15 O00-O99	การตั้งครรภ์ การคลอด และภาวะหลังคลอด.....(Complication of pregnancy, childbirth and the puerperium)
16 P00 - P99	ภาวะผิดปกติของทารกในครรภ์และทารกแรกเกิด (สภาวะที่ 22 มีผลบังคับใช้วันที่ 7 มีนาคม).....(Certain conditions originating in the perinatal period)	16 P00 - P99	ภาวะผิดปกติของทารกในครรภ์และทารกแรกเกิด (สภาวะที่ 22 มีผลบังคับใช้วันที่ 7 มีนาคม).....(Certain conditions originating in the perinatal period)	16 P00 - P99	ภาวะผิดปกติของทารกในครรภ์และทารกแรกเกิด (สภาวะที่ 22 มีผลบังคับใช้วันที่ 7 มีนาคม).....(Certain conditions originating in the perinatal period)
17 Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิด และโรคโครโมโซม.....(Congenital malformations, deformations and chromosomal abnormalities)	17 Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิด และโรคโครโมโซม.....(Congenital malformations, deformations and chromosomal abnormalities)	17 Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิด และโรคโครโมโซม.....(Congenital malformations, deformations and chromosomal abnormalities)
18 R00 - R99	อาการ, อาการแสดง และสิ่งผิดปกติที่ยังไม่ทราบสาเหตุทางคลินิกและการวินิจฉัยการวินิจฉัยทางคลินิก.....(Symptoms, signs and ill-defined conditions)	18 R00 - R99	อาการ, อาการแสดง และสิ่งผิดปกติที่ยังไม่ทราบสาเหตุทางคลินิกและการวินิจฉัยการวินิจฉัยทางคลินิก.....(Symptoms, signs and ill-defined conditions)	18 R00 - R99	อาการ, อาการแสดง และสิ่งผิดปกติที่ยังไม่ทราบสาเหตุทางคลินิกและการวินิจฉัยการวินิจฉัยทางคลินิก.....(Symptoms, signs and ill-defined conditions)

รหัส		ชื่อโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
19	X40-X49 X50-X59 X85-X90 Y10	การติดเชื้อของระบบไหลเวียน...		
20	Y01-Y09 Y85	อุบัติเหตุจากการขนส่งและอุบัติเหตุ... Transport accidents and their sequelae...		
21	W00-W09 X00-X19 X20-X29 X30-X39 X50-X59 X70-X84 X91-X99 Y00-Y09 Y20-Y36 Y40-Y44 Y86-Y89	สาเหตุภายนอกของอุบัติเหตุ... External causes of morbidity and mortality (eg: accidents, injuries, intentional self-harm, assault, animals and plants, complications of medical and surgical care and other unspecified causes)		
22	U50 - U52	โรคของสตรี		
23	U54 - U55	โรคของเด็ก		
24	U56 - U60	โรคที่เกี่ยวกับโภชนาการ		
25	U61 - U72	โรคที่เกี่ยวกับจิตเวช		
26	U74 - U75	โรคของผิวหนัง		
27	U77	การสืบพันธุ์และการเจริญพันธุ์		
99	Z00 - Z99.999	กลุ่มโรคอื่น ๆ (ไม่ระบุ)		
				รวม

ตารางบัญชีการตรวจสุขภาพ (21 รายการ)		ฉบับ 31.504	
พระราชบัญญัติสุขภาพแห่งชาติ พ.ศ. 2542 (ฉบับแก้ไขเพิ่มเติม) พ.ร.บ. 31.504 (ฉบับแก้ไขเพิ่มเติม) พ.ศ. 2562 (ฉบับแก้ไขเพิ่มเติม) พ.ศ. 2562		กลุ่ม	รายการ
การตรวจสุขภาพ (21 รายการ)		กลุ่ม	รายการ
รหัส	รหัสโรค	รหัสการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	16
02	C00-C97	เนื้องอก (มะเร็ง) Neoplasms	19
03	D50-D89	โรคเลือดและโรคทางเลือด และโรคของอวัยวะที่เกี่ยวข้องกับเลือด..... Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	16
04	E80 - E89	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางโภชนาการและโรคเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	59
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม..... Mental and behavioral disorders	7
06	G00-G99	โรคระบบประสาท.....Diseases of the nervous system	2
07	H00 - H59	โรคทางตาและอวัยวะที่เกี่ยวข้อง.....disease of the eye and adnexa	13
08	H60 - H95	โรคหูและหูชั้นกลาง.....Diseases of the ear and mastoid process	3
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	70
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	98
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหารและตับ.....Diseases of the digestive system	70
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	34
13	M00 - M99	โรคของกล้ามเนื้อ ระบบโครงกระดูก และเนื้อเยื่อเกี่ยวพัน..... Diseases of the musculoskeletal system and connective tissue	57
14	N00 - N99	โรคระบบสืบพันธุ์และทางเดินปัสสาวะ..... Diseases of the genitourinary system	17
15	O00-O99	การตั้งครรภ์ การคลอดบุตร และภาวะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	22
16	P00 - P96	ภาวะผิดปกติของทารกในครรภ์และภาวะหลังคลอด (เฉพาะที่ 22 มีผลตั้งแต่วันที่ 7 พฤษภาคม 2562).....Certain conditions originating in the perinatal period	22
17	Q00 - Q99	ความผิดปกติของโครโมโซม การกลายพันธุ์ของโครโมโซม และโรคโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities	17
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่ไม่ใช่โรคจากการตรวจทางคลินิกและการวินิจฉัยที่ไม่ใช่โรคจากการตรวจทางคลินิก.....Symptoms, signs and ill-defined conditions	72
19	X40-X49	โรคพิษสุราเรื้อรัง	1
20	Y00-Y99	อุบัติเหตุและการบาดเจ็บ	1
21	Z00-Z99	การตรวจสุขภาพและการวินิจฉัย	1
		รวม	4,432

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รายการผู้ป่วยนอกตามกลุ่มโรค (21 กลุ่มโรค)		อัตราป่วยต่อแสนคน (ปีละผู้ป่วยต่อแสนคน) (ค.ศ. 2560-2) ค.ศ. 2560)	
ตามประเภทโรค (ตาม 21 กลุ่มโรค)		ตามประเภทโรค (ตาม 21 กลุ่มโรค)	
กลุ่มโรค	รหัสโรค	จำนวนผู้ป่วย	อัตราป่วยต่อแสนคน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	22
02	C00-C97 D00-D48	เนื้องอก (tumours) Neoplasms	4
03	D50-D89	โรคเลือดและภาวะที่เกี่ยวข้องกับเลือด และภาวะผิดปกติของเลือด ..... Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	
04	E60 - E90	โรคพิษของเลือดและพิษ ..... Endocrine, nutritional and metabolic diseases	35
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม ..... Mental and behavioural disorders	21
06	G00 - G99	โรคระบบประสาท ..... Diseases of the nervous system	3
07	H00 - H59	โรคตาและโรคของตาและตา ..... Diseases of the eye and adnexa	8
08	H60 - H95	โรคหูและหูชั้นกลาง ..... Diseases of the ear and mastoid process	3
09	I00 - I99	โรคระบบไหลเวียนเลือด ..... Diseases of the circulatory system	35
10	J00 - J99	โรคระบบทางเดินหายใจ ..... Diseases of the respiratory system	119
11	K00 - K93	โรคระบบและอาหาร ทางเดินอาหาร ..... Diseases of the digestive system	72
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง ..... Diseases of the skin and subcutaneous tissue	21
13	M00 - M99	โรคระบบกล้ามเนื้อ ระบบโครงกระดูก และเนื้อเยื่อเกี่ยวพัน ..... Diseases of the musculoskeletal system and connective tissue	52
14	N00 - N99	โรคระบบสืบพันธุ์และปัสสาวะ ..... Diseases of the genitourinary system	15
15	O00-O99 ยกเว้น O80 - O84	การตั้งครรภ์ในทางผิดปกติ การคลอด และระยะหลังคลอด ..... Complication of pregnancy, childbirth and the puerperium	
16	P00 - P96	การเจ็บป่วยของทารกในครรภ์ในระหว่างตั้งครรภ์ (อายุครรภ์ 22 สัปดาห์ถึงสัปดาห์ที่ 7 หลังคลอด) ..... Certain conditions originating in the perinatal period	
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการทางกายและประสาท ..... Congenital malformations, deformations and chromosomal abnormalities	
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่ไม่อาจหาทราบสาเหตุได้ ..... Symptoms, signs and ill-defined conditions	107

ฉบับ ๙1.504			
รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)		ฉบับแก้ไขครั้งที่ 2588 (มีผลใช้บังคับวันที่ 1 ก.ย. 2558-31 ก.ย. 2568)	
สาเหตุสำคัญโรค: ๙๑. (๖๖) เฉพาะ จำนวนผู้ป่วย ๙๙ 05.๙๑ สาเหตุอื่นๆ รวมกลุ่มสาเหตุ โรคเรื้อรัง		เพิ่มเติมรายการ 16 ก.ย. ๕9	
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	19
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms	11
03	D50-D89	โรคเลือดและอวัยวะสร้างเม็ดเลือด และทางที่เกี่ยวข้องกับภูมิคุ้มกัน ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	—
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	42
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	12
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system	3
07	H00 - H59	โรคและการเจ็บป่วยที่ดวงตา.....disease of the eye and adnexa	15
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	4
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	53
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	168
11	K00 - K93	โรคมะเร็งของอาหาร ทวารหนักและช่องท้อง.....Diseases of the digestive system	58
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	11
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ ทวารหนักกระดูก และข้อต่อ..... Diseases of the musculoskeletal system and connective tissue	71
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	38
15	O00-O99 นอกเหนือ O80 - O84	การตั้งครรภ์ในครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	—
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบทอดมาหรือเกิดในครรภ์ (สาเหตุที่ 22 มีลักษณะเฉพาะที่ 7 รวมอยู่ด้วย).....Certain conditions originating in the perinatal period	22
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและรูปร่างผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	—
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการที่นำมาพิจารณาโรคในบัญชีนี้	125
รวม			2,766

ฉบับ ๙1.504			
รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)		ฉบับแก้ไขครั้งที่ 2588 (มีผลใช้บังคับวันที่ 1 ก.ย. 2558-31 ก.ย. 2568)	
สาเหตุสำคัญโรค: ๙๑. (๖๖) เฉพาะ จำนวนผู้ป่วย ๙๙ 05.๙๑ สาเหตุอื่นๆ รวมกลุ่มสาเหตุ โรคเรื้อรัง		เพิ่มเติมรายการ 16 ก.ย. ๕9	
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	9
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms	17
03	D50-D89	โรคเลือดและอวัยวะสร้างเม็ดเลือด และทางที่เกี่ยวข้องกับภูมิคุ้มกัน ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	—
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	60
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	10
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system	2
07	H00 - H59	โรคและการเจ็บป่วยที่ดวงตา.....disease of the eye and adnexa	9
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	3
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	49
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	118
11	K00 - K93	โรคมะเร็งของอาหาร ทวารหนักและช่องท้อง.....Diseases of the digestive system	57
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	19
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ ทวารหนักกระดูก และข้อต่อ..... Diseases of the musculoskeletal system and connective tissue	43
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	28
15	O00-O99 นอกเหนือ O80 - O84	การตั้งครรภ์ในครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	—
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบทอดมาหรือเกิดในครรภ์ (สาเหตุที่ 22 มีลักษณะเฉพาะที่ 7 รวมอยู่ด้วย).....Certain conditions originating in the perinatal period	22
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและรูปร่างผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	—
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการที่นำมาพิจารณาโรคในบัญชีนี้	56
รวม			2,199

ฉบับ ๙1.504			
รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)		ฉบับแก้ไขครั้งที่ 2588 (มีผลใช้บังคับวันที่ 1 ก.ย. 2558-31 ก.ย. 2568)	
สาเหตุสำคัญโรค: ๙๑. (๖๖) เฉพาะ จำนวนผู้ป่วย ๙๙ 05.๙๑ สาเหตุอื่นๆ รวมกลุ่มสาเหตุ โรคเรื้อรัง		เพิ่มเติมรายการ 16 ก.ย. ๕9	
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	13
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms	7
03	D50-D89	โรคเลือดและอวัยวะสร้างเม็ดเลือด และทางที่เกี่ยวข้องกับภูมิคุ้มกัน ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	—
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	66
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	8
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system	3
07	H00 - H59	โรคและการเจ็บป่วยที่ดวงตา.....disease of the eye and adnexa	9
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	1
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	42
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	96
11	K00 - K93	โรคมะเร็งของอาหาร ทวารหนักและช่องท้อง.....Diseases of the digestive system	55
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	12
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ ทวารหนักกระดูก และข้อต่อ..... Diseases of the musculoskeletal system and connective tissue	48
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	18
15	O00-O99 นอกเหนือ O80 - O84	การตั้งครรภ์ในครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	—
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบทอดมาหรือเกิดในครรภ์ (สาเหตุที่ 22 มีลักษณะเฉพาะที่ 7 รวมอยู่ด้วย).....Certain conditions originating in the perinatal period	22
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและรูปร่างผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	—
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการที่นำมาพิจารณาโรคในบัญชีนี้	59
รวม			2,392

ฉบับ ๙1.504			
รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)		ฉบับแก้ไขครั้งที่ 2588 (มีผลใช้บังคับวันที่ 1 ก.ย. 2558-31 ก.ย. 2568)	
สาเหตุสำคัญโรค: ๙๑. (๖๖) เฉพาะ จำนวนผู้ป่วย ๙๙ 05.๙๑ สาเหตุอื่นๆ รวมกลุ่มสาเหตุ โรคเรื้อรัง		เพิ่มเติมรายการ 16 ก.ย. ๕9	
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	7
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms	3
03	D50-D89	โรคเลือดและอวัยวะสร้างเม็ดเลือด และทางที่เกี่ยวข้องกับภูมิคุ้มกัน ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	4
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	68
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	7
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system	2
07	H00 - H59	โรคและการเจ็บป่วยที่ดวงตา.....disease of the eye and adnexa	8
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	3
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	65
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	107
11	K00 - K93	โรคมะเร็งของอาหาร ทวารหนักและช่องท้อง.....Diseases of the digestive system	71
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	11
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ ทวารหนักกระดูก และข้อต่อ..... Diseases of the musculoskeletal system and connective tissue	32
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	28
15	O00-O99 นอกเหนือ O80 - O84	การตั้งครรภ์ในครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	1
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบทอดมาหรือเกิดในครรภ์ (สาเหตุที่ 22 มีลักษณะเฉพาะที่ 7 รวมอยู่ด้วย).....Certain conditions originating in the perinatal period	22
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและรูปร่างผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	1
18	R00 - R99	สาเหตุ, อาการของโรคและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการที่นำมาพิจารณาโรคในบัญชีนี้	54
รวม			2,728

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ งบการเงิน 2568 (บัญชีต่อรายงาน 1 น.ร. 2568-31 น.ร. สถานบริการ(ท. ส. /pcu): โรงพยาบาลสมเด็จพระพุทธโฆษาจารย์และคณะกรรมาธิการ ส่วนแบ่ง อำเภอลำลูกเกด จังหวัดนครราชสีมา				
ชื่อผู้ลงรายการ		วันที่ลงรายการ		14 น.ร. 69
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	1	
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms		
03	D50-D89	โรคเลือดและอวัยวะต่าง ๆ และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	32	
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders		
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system	1	
07	H00 - H59	โรคตาและระบบประสาทตา.....disease of the eye and adnexa	1	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process		
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	21	
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	37	
11	K00 - K93	โรคมะเร็งของทางเดินอาหารในระบบทางเดินหายใจ.....Diseases of the digestive system	8	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	3	
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	9	
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	1	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (ภาวะแทรกซ้อน) 22 สัปดาห์ก่อนคลอด 7 วันหลังคลอด .....Certain conditions originating in the perinatal period	22	
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและภาวะผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการเจ็บป่วยทางจิตในกรณีอื่นใด	37	
รวม				301
ร.504 หน้า 1/2				ร.504 หน้า 2/2

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ งบการเงิน 2568 (บัญชีต่อรายงาน 1 น.ร. 2568-30 น.ร. สถานบริการ(ท. ส. /pcu): โรงพยาบาลสมเด็จพระพุทธโฆษาจารย์และคณะกรรมาธิการ ส่วนแบ่ง อำเภอลำลูกเกด จังหวัดนครราชสีมา				
ชื่อผู้ลงรายการ		วันที่ลงรายการ		14 น.ร. 69
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	2	
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms		
03	D50-D89	โรคเลือดและอวัยวะต่าง ๆ และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	4	
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders		
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system		
07	H00 - H59	โรคตาและระบบประสาทตา.....disease of the eye and adnexa	3	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process	1	
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	6	
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	52	
11	K00 - K93	โรคมะเร็งของทางเดินอาหารในระบบทางเดินหายใจ.....Diseases of the digestive system	8	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	2	
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	12	
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system		
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (ภาวะแทรกซ้อน) 22 สัปดาห์ก่อนคลอด 7 วันหลังคลอด .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและภาวะผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการเจ็บป่วยทางจิตในกรณีอื่นใด	33	
รวม				1,033
ร.504 หน้า 1/2				ร.504 หน้า 2/2

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ งบการเงิน 2568 (บัญชีต่อรายงาน 1 น.ร. 2568-31 น.ร. สถานบริการ(ท. ส. /pcu): โรงพยาบาลสมเด็จพระพุทธโฆษาจารย์และคณะกรรมาธิการ ส่วนแบ่ง อำเภอลำลูกเกด จังหวัดนครราชสีมา				
ชื่อผู้ลงรายการ		วันที่ลงรายการ		14 น.ร. 69
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	3	
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms		
03	D50-D89	โรคเลือดและอวัยวะต่าง ๆ และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	22	
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders		
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system		
07	H00 - H59	โรคตาและระบบประสาทตา.....disease of the eye and adnexa	3	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process		
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	13	
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	36	
11	K00 - K93	โรคมะเร็งของทางเดินอาหารในระบบทางเดินหายใจ.....Diseases of the digestive system	15	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	1	
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	0	
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	2	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (ภาวะแทรกซ้อน) 22 สัปดาห์ก่อนคลอด 7 วันหลังคลอด .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและภาวะผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการเจ็บป่วยทางจิตในกรณีอื่นใด	32	
รวม				330
ร.504 หน้า 1/2				ร.504 หน้า 2/2

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ งบการเงิน 2568 (บัญชีต่อรายงาน 1 น.ร. 2568-30 น.ร. สถานบริการ(ท. ส. /pcu): โรงพยาบาลสมเด็จพระพุทธโฆษาจารย์และคณะกรรมาธิการ ส่วนแบ่ง อำเภอลำลูกเกด จังหวัดนครราชสีมา				
ชื่อผู้ลงรายการ		วันที่ลงรายการ		14 น.ร. 69
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	6	
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms		
03	D50-D89	โรคเลือดและอวัยวะต่าง ๆ และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	29	
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	1	
06	G00 - G99	โรคมะเร็งประสาท.....Disease of the nervous system		
07	H00 - H59	โรคตาและระบบประสาทตา.....disease of the eye and adnexa	5	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process		
09	I00 - I99	โรคมะเร็งหัวใจและหลอดเลือด.....Diseases of the circulatory system	24	
10	J00 - J99	โรคมะเร็งทางเดินหายใจ.....Diseases of the respiratory system	29	
11	K00 - K93	โรคมะเร็งของทางเดินอาหารในระบบทางเดินหายใจ.....Diseases of the digestive system	14	
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	1	
13	M00 - M99	โรคมะเร็งกล้ามเนื้อ กระดูกและข้อ.....Diseases of the musculoskeletal system and connective tissue	11	
14	N00 - N99	โรคมะเร็งสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	2	
15	O00-O99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16	P00 - P96	ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (ภาวะแทรกซ้อน) 22 สัปดาห์ก่อนคลอด 7 วันหลังคลอด .....Certain conditions originating in the perinatal period		
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดและภาวะผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities		
18	R00 - R99	สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและการวินิจฉัยการเจ็บป่วยทางจิตในกรณีอื่นใด	25	
รวม				312
ร.504 หน้า 1/2				ร.504 หน้า 2/2

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ พ.ศ.๒๕๖๓ 2568 (วันที่ต้องรายงาน 1 พ.ค. 2568-31 พ.ค. 2568)				
สถาบันการ(ศ. ช. /ศอ.) : โรงพยาบาลสมเด็จพระยุพราชพาดังเนินนอกการ ส่วนแบ่งๆ จำนวนกลุ่มงาน จักรวรรดิ				
ชื่อผู้ลงรายการ      วันที่ลงรายการ      14 พ.ค. 69				
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01 A00 - A99 B00 - B99		โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	1	
02 C00-C97 D00-D48		เนื้องอก (tumors) Neoplasms		
03 D50-D89		โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04 E00 - E90		โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	11	
05 F00 - F99		การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders		
06 G00 - G99		โรคระบบประสาท.....Disease of the nervous system		
07 H00 - H59		โรคตาการสัมผัสกับดวงตา.....disease of the eye and adnexa	3	
08 H60 - H95		โรคหูและจมูก.....Diseases of the ear and mastoid process	1	
09 I00 - I99		โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	14	
10 J00 - J99		โรคระบบหายใจ.....Diseases of the respiratory system	59	
11 K00 - K93		โรคระบบย่อยอาหาร ทางเดินในระบบ.....Diseases of the digestive system	14	
12 L00 - L99		โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	2	
13 M00 - M99		โรคระบบกล้ามเนื้อ ทางกระดูก และข้อต่อ.....Diseases of the musculoskeletal system and connective tissue	11	
14 N00 - N99		โรคระบบสืบพันธุ์และทาง.....Diseases of the genitourinary system	1	
15 O00-O99 นอก O80 - O84		การตั้งครรภ์ในครรภ์ ทารกคลอด และภาวะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16 P00 - P96		ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (สาเหตุที่ 22 มีรายละเอียดใน 7 โรคพิเศษ) .....Certain conditions originating in the perinatal period	22	
17 Q00 - Q99		ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดทางกายและโครโมโซม Abnormalities.....Congenital malformations, deformations and chromosomal abnormalities		
18 R00 - R99		สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ สหประชาชาติและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ในกรณีอื่นใด	25	
ร.504 หน้า 1/2			ร.504 หน้า 2/2	

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ พ.ศ.๒๕๖๓ 2568 (วันที่ต้องรายงาน 1 พ.ค. 2568-31 พ.ค. 2568)				
สถาบันการ(ศ. ช. /ศอ.) : โรงพยาบาลสมเด็จพระยุพราชพาดังเนินนอกการ ส่วนแบ่งๆ จำนวนกลุ่มงาน จักรวรรดิ				
ชื่อผู้ลงรายการ      วันที่ลงรายการ      14 พ.ค. 69				
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01 A00 - A99 B00 - B99		โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	5	
02 C00-C97 D00-D48		เนื้องอก (tumors) Neoplasms		
03 D50-D89		โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04 E00 - E90		โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases		
05 F00 - F99		การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	1	
06 G00 - G99		โรคระบบประสาท.....Disease of the nervous system		
07 H00 - H59		โรคตาการสัมผัสกับดวงตา.....disease of the eye and adnexa	3	
08 H60 - H95		โรคหูและจมูก.....Diseases of the ear and mastoid process		
09 I00 - I99		โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	1	
10 J00 - J99		โรคระบบหายใจ.....Diseases of the respiratory system	39	
11 K00 - K93		โรคระบบย่อยอาหาร ทางเดินในระบบ.....Diseases of the digestive system	9	
12 L00 - L99		โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	5	
13 M00 - M99		โรคระบบกล้ามเนื้อ ทางกระดูก และข้อต่อ.....Diseases of the musculoskeletal system and connective tissue	11	
14 N00 - N99		โรคระบบสืบพันธุ์และทาง.....Diseases of the genitourinary system	2	
15 O00-O99 นอก O80 - O84		การตั้งครรภ์ในครรภ์ ทารกคลอด และภาวะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16 P00 - P96		ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (สาเหตุที่ 22 มีรายละเอียดใน 7 โรคพิเศษ) .....Certain conditions originating in the perinatal period	22	
17 Q00 - Q99		ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดทางกายและโครโมโซม Abnormalities.....Congenital malformations, deformations and chromosomal abnormalities		
18 R00 - R99		สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ สหประชาชาติและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ในกรณีอื่นใด	45	
ร.504 หน้า 1/2			ร.504 หน้า 2/2	

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ พ.ศ.๒๕๖๓ 2568 (วันที่ต้องรายงาน 1 พ.ค. 2568-31 พ.ค. 2568)				
สถาบันการ(ศ. ช. /ศอ.) : โรงพยาบาลสมเด็จพระยุพราชพาดังเนินนอกการ ส่วนแบ่งๆ จำนวนกลุ่มงาน จักรวรรดิ				
ชื่อผู้ลงรายการ      วันที่ลงรายการ      14 พ.ค. 69				
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01 A00 - A99 B00 - B99		โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	1	
02 C00-C97 D00-D48		เนื้องอก (tumors) Neoplasms		
03 D50-D89		โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	1	
04 E00 - E90		โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	1	
05 F00 - F99		การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	1	
06 G00 - G99		โรคระบบประสาท.....Disease of the nervous system		
07 H00 - H59		โรคตาการสัมผัสกับดวงตา.....disease of the eye and adnexa	2	
08 H60 - H95		โรคหูและจมูก.....Diseases of the ear and mastoid process		
09 I00 - I99		โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system		
10 J00 - J99		โรคระบบหายใจ.....Diseases of the respiratory system	35	
11 K00 - K93		โรคระบบย่อยอาหาร ทางเดินในระบบ.....Diseases of the digestive system	14	
12 L00 - L99		โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	2	
13 M00 - M99		โรคระบบกล้ามเนื้อ ทางกระดูก และข้อต่อ.....Diseases of the musculoskeletal system and connective tissue	10	
14 N00 - N99		โรคระบบสืบพันธุ์และทาง.....Diseases of the genitourinary system	1	
15 O00-O99 นอก O80 - O84		การตั้งครรภ์ในครรภ์ ทารกคลอด และภาวะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16 P00 - P96		ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (สาเหตุที่ 22 มีรายละเอียดใน 7 โรคพิเศษ) .....Certain conditions originating in the perinatal period	22	
17 Q00 - Q99		ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดทางกายและโครโมโซม Abnormalities.....Congenital malformations, deformations and chromosomal abnormalities		
18 R00 - R99		สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ สหประชาชาติและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ในกรณีอื่นใด	30	
ร.504 หน้า 1/2			ร.504 หน้า 2/2	

ฉบับ ร.504				
รายงานผู้ป่วยนอกภาคต่อหน้าของ (21 คู่โรค)      ประจำปีงบ พ.ศ.๒๕๖๓ 2568 (วันที่ต้องรายงาน 1 พ.ค. 2568-31 พ.ค. 2568)				
สถาบันการ(ศ. ช. /ศอ.) : โรงพยาบาลสมเด็จพระยุพราชพาดังเนินนอกการ ส่วนแบ่งๆ จำนวนกลุ่มงาน จักรวรรดิ				
ชื่อผู้ลงรายการ      วันที่ลงรายการ      14 พ.ค. 69				
กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	
01 A00 - A99 B00 - B99		โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	5	
02 C00-C97 D00-D48		เนื้องอก (tumors) Neoplasms		
03 D50-D89		โรคเลือดและอวัยวะที่เกี่ยวข้อง และภาวะผิดปกติเกี่ยวกับเลือด/โรค ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism		
04 E00 - E90		โรคเกี่ยวกับต่อมไร้ท่อ โรคทางกาย และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	1	
05 F00 - F99		การเจ็บป่วยทางจิตและพฤติกรรม.....Mental and behavioural disorders	1	
06 G00 - G99		โรคระบบประสาท.....Disease of the nervous system		
07 H00 - H59		โรคตาการสัมผัสกับดวงตา.....disease of the eye and adnexa	3	
08 H60 - H95		โรคหูและจมูก.....Diseases of the ear and mastoid process		
09 I00 - I99		โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system		
10 J00 - J99		โรคระบบหายใจ.....Diseases of the respiratory system	38	
11 K00 - K93		โรคระบบย่อยอาหาร ทางเดินในระบบ.....Diseases of the digestive system	18	
12 L00 - L99		โรคผิวหนังและเนื้อเยื่อเกี่ยวพัน.....Diseases of the skin and subcutaneous tissue	1	
13 M00 - M99		โรคระบบกล้ามเนื้อ ทางกระดูก และข้อต่อ.....Diseases of the musculoskeletal system and connective tissue	10	
14 N00 - N99		โรคระบบสืบพันธุ์และทาง.....Diseases of the genitourinary system	3	
15 O00-O99 นอก O80 - O84		การตั้งครรภ์ในครรภ์ ทารกคลอด และภาวะหลังคลอด.....Complication of pregnancy, childbirth and the puerperium		
16 P00 - P96		ภาวะผิดปกติของทารกที่สืบพันธุ์ในครรภ์ (สาเหตุที่ 22 มีรายละเอียดใน 7 โรคพิเศษ) .....Certain conditions originating in the perinatal period	22	
17 Q00 - Q99		ภาวะผิดปกติแต่กำเนิด การพิการแต่กำเนิดทางกายและโครโมโซม Abnormalities.....Congenital malformations, deformations and chromosomal abnormalities		
18 R00 - R99		สาเหตุ, อาการของและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ สหประชาชาติและสิ่งผิดปกติที่พบได้จากการทางการแพทย์ในกรณีอื่นใด	25	
ร.504 หน้า 1/2			ร.504 หน้า 2/2	

รายชื่อโรค		จำนวน
เลข	รหัสโรค	จำนวน
19	X40-X49 X50-X59 X60-X69 X70-X79	1
20	X80-X89 X90-X99	1
21	X00-X09 X10-X19 X20-X29 X30-X39 X40-X49 X50-X59 X60-X69 X70-X79 X80-X89 X90-X99	1
22	U00-U09	1
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37	V50-V59	1
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ฉบับ ๒4.504				เลข	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
การป่วยด้วยโรคจากสัตว์ต่าง (21 กลุ่มโรค)				รหัสจำแนก 2568 (รหัสเดิมอาจรวม 1 ส.ค. 2568-31 ส.ค. 2569)			
สาเหตุการป่วย (ร. ๒๓. /๐๐0): โรคจากบาดแผลอื่นหรือการป่วยด้วยโรคจากสัตว์ต่างโดยทั่วไป				รหัสจำแนก 2568-31 ส.ค. 2569			
ชื่อโรคจากสัตว์				รหัสจำแนก 2568-31 ส.ค. 2569			
เลข	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน	เลข	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อแบคทีเรีย (Certain infectious and parasitic diseases)	1	19	X40-X49 X50-X59 X55-X59 Y10	การบาดเจ็บจากอุบัติเหตุจราจร...	
02	C00-C97 D00-D48	เนื้องอก (มะเร็ง) Neoplasms		20	y01-y99 y85	อุบัติเหตุจากการขนส่งและอุบัติเหตุทาง... Transport accidents and their sequelae...	
03	D50-D89	โรคเลือดและโรคที่เกี่ยวข้องกับเลือด และโรคทางภูมิคุ้มกัน		21	y00-y09 y10-y19 y20-y29 y30-y39 y50-y59 y70-y84 y91-y99 y00-y09 y20-y36 y40-y84 y85-y89	สาเหตุจากภายนอกอื่น ๆ ที่ทำให้บาดเจ็บและ... Other external causes of morbidity and mortality (eg: accidents, injuries, intentional self-harm, assault, animals and plants, complications of medical and surgical care and other unspecified causes)	5
04	E80 - E89	โรคพิษโคและโรคพิษโลหิต โรคทางโภชนาการ และเมตาบอลิซึม..... Endocrine, nutritional and metabolic disorders		22	U50 - U52	โรคกระดูก	
05	F00 - F99	การเจ็บป่วยทางจิตและพฤติกรรม..... Mental and behavioural disorders		23	U54 - U55	โรคข้ออักเสบ	
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system		24	U56 - U60	โรคพิษจากสารพิษจากยาพิษ	
07	H00 - H59	โรคและการบาดเจ็บที่ดวงตาและตา.....disease of the eye and adnexa	8	25	U61 - U72	โรคพิษจากสารพิษจากยาพิษ	
08	H60 - H95	โรคหูและจมูก.....Diseases of the ear and mastoid process		26	U74 - U75	โรคหลอดเลือดหัวใจ	
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	1	27	U77	การเสียชีวิตจากสาเหตุการบาดเจ็บ	
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	41	99	Z00 - Z99.999	กลุ่มโรคอื่น ๆ (ไม่ระบุโรค)	821
11	K00 - K93	โรคระบบและอาหาร ทางเดินอาหาร.....Diseases of the digestive system	9				932
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง.....Diseases of the skin and subcutaneous tissue	2				
13	M00 - M99	โรคระบบกล้ามเนื้อ ระบบโครงร่าง และเนื้อเยื่อ..... Diseases of the musculoskeletal system and connective tissue	10				
14	N00 - N99	โรคระบบปัสสาวะ.....Diseases of the genitourinary system					
15	O00-Q99 นอกเหนือ O80 - O84	ภาวะแทรกซ้อนทางสูติศาสตร์ การคลอด และระบบสืบพันธุ์..... Complication of pregnancy, childbirth and the puerperium					
16	P00 - P96	ภาวะผิดปกติของทารกในครรภ์และภาวะผิดปกติ (บางกรณี 22 สัปดาห์ก่อนถึง 7 สัปดาห์หลังคลอด)..... Certain conditions originating in the perinatal period					
17	Q00 - Q99	รูปร่างผิดปกติแต่กำเนิด การผิดปกติของโครโมโซมและโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities					
18	R00 - R99	อาการ, อาการแสดงและสัญญาณผิดปกติโดยไม่ทราบสาเหตุ..... Signs, symptoms and abnormal findings of unknown cause	36				

๒๔.504 หน้า 1/2
๒๔.504 หน้า 2/2

เลขที่	รหัสโรค	ชื่อโรค	จำนวน
01	A00 - A99	โรคติดต่อและปรสิต (Contagious and parasitic diseases)	1
02	C00-C97	เนื้องอก (มะเร็ง) Neoplasms	1
03	D50-D89	โรคเลือดและโรคทางเลือด และภาวะผิดปกติเกี่ยวกับเลือด ..... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	1
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โรคทางโภชนาการ และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	1
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม.....Mental and behavioural disorders	1
06	G00 - G99	โรคระบบประสาท.....Disease of the nervous system	1
07	H00 - H59	โรคทางตาและอวัยวะตา.....Disease of the eye and adnexa	5
08	H60 - H95	โรคหูและหูชั้นกลาง.....Diseases of the ear and mastoid process	1
09	I00 - I99	โรคระบบไหลเวียนเลือด.....Diseases of the circulatory system	1
10	J00 - J99	โรคระบบทางเดินหายใจ.....Diseases of the respiratory system	33
11	K00 - K93	โรคระบบย่อยอาหาร ทางเดินอาหาร.....Diseases of the digestive system	8
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง.....Diseases of the skin and subcutaneous tissue	2
13	M00 - M99	โรคระบบกล้ามเนื้อ ทางกระดูก และข้อต่อ.....Diseases of the musculoskeletal system and connective tissue	15
14	N00 - N99	โรคระบบสืบพันธุ์และอวัยวะสืบพันธุ์.....Diseases of the genitourinary system	1
15	O00-O99	ภาวะแทรกซ้อนทางสูติศาสตร์ การคลอด และบุตรแรกเกิด.....Complication of pregnancy, childbirth and the puerperium	1
16	P00 - P96	ภาวะผิดปกติของทารกก่อนเกิดและในระหว่างคลอด (ภาวะแทรกซ้อน) ..... Certain conditions originating in the perinatal period	1
17	Q00 - Q99	ภาวะผิดปกติแต่กำเนิด การพิการทางกายและโครโมโซม.....Congenital malformations, deformations and chromosomal abnormalities	1
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติโดยไม่ทราบสาเหตุ.....Symptoms, signs and ill-defined conditions	27

รวม 315 โรค

รหัส	รหัสโรค	ชื่อโรค (ภาษาไทย)	จำนวน
01	A00 - B99	โรคติดต่อและปรสิต (Certain infectious and parasitic diseases)	3
02	C00-C97	เนื้องอก (tumors)	
03	D50-D89	โรคเลือดและอวัยวะภูมิคุ้มกันผิดปกติ (Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism)	
04	E00 - E90	โรคเกี่ยวกับเมตาบอลิซึม โรคอาหาร และระบบต่อมไร้ท่อ (Endocrine, nutritional and metabolic diseases)	1
05	F00 - F99	ความผิดปกติทางจิตและพฤติกรรม (Mental and behavioural disorders)	
06	G00 - G99	โรคระบบประสาท (Disease of the nervous system)	
07	H00 - H59	โรคตามนัยน์ตาและอวัยวะใกล้เคียง (Disease of the eye and adnexa)	8
08	H60 - H95	โรคหูและจมูก (Diseases of the ear and mastoid process)	
09	I00 - I99	โรคระบบไหลเวียนโลหิต (Diseases of the circulatory system)	2
10	J00 - J99	โรคระบบทางเดินหายใจ (Diseases of the respiratory system)	29
11	K00 - K93	โรคระบบอาหารทางเดินอาหาร (Diseases of the digestive system)	14
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง (Diseases of the skin and subcutaneous tissue)	1
13	M00 - M99	โรคระบบกล้ามเนื้อ ระบบกระดูก และเนื้อเยื่อเกี่ยวพัน (Diseases of the musculoskeletal system and connective tissue)	20
14	N00 - N99	โรคระบบปัสสาวะและอวัยวะสืบพันธุ์ (Diseases of the genitourinary system)	2
15	O00-O99	ภาวะแทรกซ้อนทางสูติศาสตร์ การคลอด และระยะหลังคลอด (Complication of pregnancy, childbirth and the puerperium)	
16	P00 - P96	ภาวะผิดปกติของทารกตั้งแต่ต้นจนกระทั่งเกิด (ภาวะตั้งแต่ 22 สัปดาห์จนถึงสัปดาห์ที่ 7 หลังคลอด) (Certain conditions originating in the perinatal period)	
17	Q00 - Q99	ความผิดปกติแต่กำเนิด การพิการแต่กำเนิดและโรคโครโมโซมผิดปกติ (Congenital malformations, deformations and chromosomal abnormalities)	
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่พบโดยไม่ทราบการตรวจหาสาเหตุและการวินิจฉัยการเป็นสาเหตุทางคลินิกโดยสมบูรณ์ (Symptoms, signs and ill-defined conditions)	28

## รายงานผู้ป่วยนอกตามกลุ่มสาเหตุ (21 กลุ่มโรค)

ประจำเดือน มกราคม 2568 (วันที่ตัดยอดรายงาน 1 ม.ค. 2568 31 ธ.ค. 2568)

สถานบริการ(รพ. สต. /pcu): รพ.สต.นิคมพัฒนา ตำบลนิคมพัฒนา อำเภอนิคมพัฒนา จังหวัดระยอง

ชื่อผู้ออกรายงาน

วันที่ออกรายงาน

14 ม.ค. 69

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
01	A00 - A99 B00 - B99	โรคติดเชื้อและปรสิต (Certain infectious and parasitic diseases)	15
02	C00-C97 D00-D48	เนื้องอก (รวมมะเร็ง) Neoplasms	
03	D50-D89	โรคเลือดและอวัยวะสร้างเลือด และความผิดปกติเกี่ยวกับภูมิคุ้มกัน .... Disease of the blood and blood forming organs and certain disorders involving the immune mechanism	
04	E00 - E90	โรคเกี่ยวกับต่อมไร้ท่อ โภชนาการ และเมตาบอลิซึม..... Endocrine, nutritional and metabolic diseases	422
05	F00 - F99	ภาวะแปรปรวนทางจิตและพฤติกรรม.....Mental and behavioural disorders	5
06	G00 -G99	โรกระบบประสาท.....Disease of the nervous system	2
07	H00 - H59	โรคตาส่วนประกอบของตา.....disease of the eye and adnexa	15
08	H60 - H95	โรคหูและปุ่มกกหู.....Diseases of the ear and mastoid process	1
09	I00 - I99	โรกระบบไหลเวียนเลือด.....Diseases of the circulatory system	613
10	J00 - J99	โรกระบบหายใจ.....Diseases of the respiratory system	250
11	K00 - K93	โรกระบบย่อยอาหาร รวมโรคในช่องปาก.....Diseases of the digestive system	3,226
12	L00 - L99	โรคผิวหนังและเนื้อเยื่อใต้ผิวหนัง.....Diseases of the skin and subcutaneous tissue	9
13	M00 - M99	โรกระบบกล้ามเนื้อ รวมโครงร่าง และเนื้อเยื่อเสริม..... Diseases of the musculoskeletal system and connective tissue	225
14	N00 - N99	โรกระบบสืบพันธุ์ร่วมปัสสาวะ.....Diseases of the genitourinary system	2
15	O00-O99 ยกเว้น O80 - O84	ภาวะแทรกซ้อนในการตั้งครรภ์ การคลอด และระยะหลังคลอด..... Complication of pregnancy, childbirth and the puerperium	
16	P00 - P96	ภาวะผิดปกติของทารกที่เกิดขึ้นในระยะปริกำเนิด (อายุครรภ์ 22 สัปดาห์ขึ้นไปจนถึง 7 วันหลังคลอด ).....Certain conditions originating in the perinatal period	
17	Q00 - Q99	รูปร่างผิดปกติแต่กำเนิด การพิการจนผิดรูปแต่กำเนิดและโครโมโซม ผิดปกติ.....Congenital malformations, deformations and chromosomal abnormalities	
18	R00 - R99	อาการ, อาการแสดงและสิ่งผิดปกติที่พบได้จากการตรวจทางคลินิกและทางอภิปฐิติการที่ไม่สามารถจำแนกโรคในกลุ่มอื่นได้	478

กลุ่ม	รหัสโรค	สาเหตุการป่วย (กลุ่มโรค)	จำนวน
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20	v01-v99 y85	อุบัติเหตุจากการขนส่งและผลที่ตามมา..... Transport accidents and their sequelae....	7
21	w00-ww99 x00-x19 x20-x29 x30-x39 x50-59 x70-x84 x91-x99 y00-y09 y20-y36 y40-y84 y86-y89	สาเหตุจากภายนอกอื่นๆ ที่ทำให้ป่วยหรือตาย..... Other external causes of morbidity and mortality (eg: accidents, injuries, intentional self-harm, assault, animals and plants, complications of medical and surgical care and other unspecified causes)	43
22	U50 - U52	โรคของสตรี	
23	U54 - U55	โรคของเด็ก	
24	U56 - U60	โรคที่เกิดอาการหลายระบบ	
25	U61 - U72	โรคที่เกิดเฉพาะตำแหน่ง	6
26	U74 - U75	โรคและอาการอื่น	2
27	U77	การส่งเสริมสุขภาพและการป้องกันโรค	61
99	Z00 - Z99.999	กลุ่มไม่นับ 504 (ไม่ใช่โรค)	12,337
รวม			17,719

## ภาคผนวก ค-9

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ผลการศึกษาและสำรวจสภาพเศรษฐกิจ-สังคม

และความคิดเห็นของประชาชน

ประจำปี พ.ศ. 2568



## รายงานสรุปผลการสำรวจสภาพเศรษฐกิจ-สังคมและความคิดเห็นต่อ โครงการโรงไฟฟ้าหนองละลอก 2 ของบริษัท กัลฟ์ เอ็นเนอร์จี จำกัด (ประจำปี 2568)



บริษัท กัลฟ์ เอ็นเนอร์จี จำกัด  
ตั้งอยู่ในเขตประกอบการอุตสาหกรรมตำบลลิ้นเอระของ  
ตำบลหนองละลอก อำเภอบ้านค่าย จังหวัดระยอง



จัดทำโดย บริษัท เอแอลเอส แลборาทอรี กรุ๊ป (ประเทศไทย) จำกัด  
104 ซอยพัฒนาการ 40 ถนนพัฒนาการ แขวงพัฒนาการ  
เขตสวนหลวง กรุงเทพฯ 10250

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## รายงานสรุปผลการสำรวจสภาพเศรษฐกิจ สังคม และความคิดเห็นต่อ โรงไฟฟ้าหนองลอก 2 บริษัท กัลป์ เอ็นแอล 2 จำกัด

### 1. ที่มาและความสำคัญ

โครงการโรงไฟฟ้าหนองลอก 2 ของบริษัท กัลป์ เอ็นแอล 2 จำกัด ตั้งอยู่ในเขตประกอบการอุตสาหกรรมตำบลสิริเชอระยอง (เดิมชื่อ เขตประกอบการอุตสาหกรรมแหลมราชะยอง) ตำบลหนองลอก อำเภอบ้านค่าย จังหวัดระยอง ได้นำเสนอรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมต่อสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม (สผ.) ซึ่งได้รับความเห็นชอบในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมตามหนังสือเห็นชอบเลขที่ 1009.7/1597 ลงวันที่ 28 กันยายน พ.ศ. 2559 โดยโครงการต้องปฏิบัติตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ซึ่งได้กำหนดให้มีการสำรวจสภาพเศรษฐกิจ สังคม และความคิดเห็นของครัวเรือน ผู้นำท้องถิ่น รวมถึงตัวแทนหน่วยงานราชการที่เกี่ยวข้อง โดยรอบโครงการ เพื่อให้ทราบถึงความคิดเห็นที่มีต่อโครงการ ทั้งในเรื่องของผลกระทบที่จะเกิดขึ้นจากโครงการ รวมถึงข้อเสนอแนะต่างๆ ครอบคลุมกับตำแหน่งที่ทำาการตรวจวัดคุณภาพสิ่งแวดล้อม ภายในรัศมี 5 กิโลเมตรรอบที่ตั้งโครงการ ปีละ 1 ครั้ง

การจัดทำรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการจึงได้ดำเนินการสำรวจสภาพเศรษฐกิจสังคมและความคิดเห็นของครัวเรือน ผู้นำท้องถิ่น และรวมถึงตัวแทนหน่วยงานราชการต่างๆ ที่เกี่ยวข้อง ซึ่งดำเนินการระหว่างวันที่ 19-22 สิงหาคม พ.ศ. 2568 มีรายละเอียดการดำเนินงานดังนี้

### 2. วัตถุประสงค์

การสำรวจสภาพสังคม-เศรษฐกิจ และความคิดเห็นต่อการดำเนินโรงไฟฟ้าหนองลอก 2 ของบริษัท กัลป์ เอ็นแอล 2 จำกัด เพื่อรับฟังข้อคิดเห็น/ข้อเสนอแนะ/ข้อกังวลใจของประชาชน ผู้นำท้องถิ่น และรวมถึงตัวแทนหน่วยงานราชการต่างๆ ที่เกี่ยวข้อง ในช่วงดำเนินการที่ผ่านมาของโครงการ โดยมีวัตถุประสงค์ดังนี้

- (1) เพื่อศึกษาสภาพสังคม-เศรษฐกิจ ได้แก่ การประกอบอาชีพ สุขอนามัย ระบบสาธารณสุข และสภาพความเป็นอยู่ของประชาชน รวมทั้ง เพื่อทราบสภาพปัญหาเกี่ยวกับสภาพแวดล้อมที่ส่งผลต่อการดำเนินชีวิตของประชาชนในปัจจุบัน
- (2) เพื่อศึกษาการรับรู้ข้อมูลข่าวสาร ความต้องการรับทราบข้อมูลข่าวสารของโครงการ รวมทั้งความคิดเห็น และความพึงพอใจต่อการดำเนินงานในด้านต่างๆ ของโครงการ

- (3) เพื่อรับฟังความคิดเห็นต่างๆ ต่อการดำเนินการที่ผ่านมาของโครงการร่วมกับชุมชน พร้อมทั้งรับฟังความคิดเห็น ข้อเสนอแนะต่อการดำเนินการ และการดำเนินกิจกรรมต่างๆ ร่วมกับชุมชน
- (4) เพื่อนำข้อมูลการสำรวจความคิดเห็นประกอบการนำเสนอไว้ในรายงานผลการปฏิบัติตามมาตรการด้านสิ่งแวดล้อมของโครงการ ต่อสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม รวมทั้งรวบรวมข้อมูลที่ได้สำหรับใช้ในการประกอบการดำเนินกิจกรรมด้านต่างๆ ของโครงการต่อไป

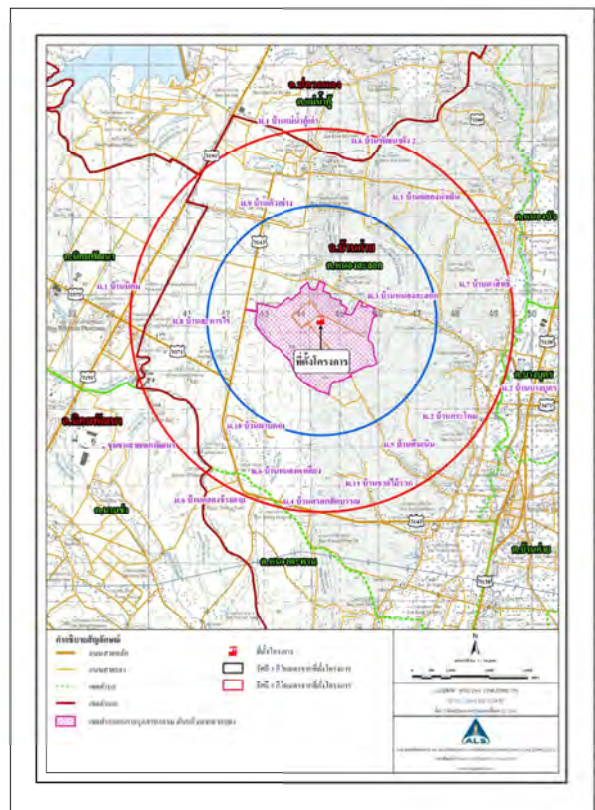
### 3. พื้นที่ดำเนินการศึกษา

พื้นที่ศึกษาในการสำรวจสภาพเศรษฐกิจ สังคม และความคิดเห็นต่อโครงการ ครอบคลุมรัศมีศึกษา 5 กิโลเมตร รอบที่ตั้งโครงการ ซึ่งอยู่ในเขตการปกครองของ 3 อำเภอในจังหวัดระยอง ได้แก่ อำเภอนิคมพัฒนา ประกอบด้วย เทศบาลเมืองนิคมพัฒนา และองค์การบริหารส่วนตำบลนิคมพัฒนา อำเภอบ้านค่าย ประกอบด้วย องค์การบริหารส่วนตำบลหนองลอก องค์การบริหารส่วนตำบลบางบุตร และองค์การบริหารส่วนตำบลหนองตะพาน และอำเภอบางละมุง ประกอบด้วย องค์การบริหารส่วนตำบลแม่แก้ว รายละเอียดแสดงดังตารางที่ 1 และรูปที่ 1

ตารางที่ 1 พื้นที่ศึกษาในการสำรวจสภาพเศรษฐกิจ สังคม และความคิดเห็นต่อโครงการ

จังหวัด	อำเภอ	เขตการปกครอง	ชุมชน/หมู่บ้าน
ระยอง	นิคมพัฒนา	เทศบาลเมืองนิคมพัฒนา	1) ชุมชนสายเอกพัฒนา
		องค์การบริหารส่วนตำบลนิคมพัฒนา	1) หมู่ที่ 1 บ้านนิคม
	บ้านค่าย	องค์การบริหารส่วนตำบลหนองลอก	1) หมู่ที่ 1 บ้านคลองน้ำเย็น
			2) หมู่ที่ 2 บ้านกระโจม
			3) หมู่ที่ 3 บ้านหนองลอก
			4) หมู่ที่ 4 บ้านตรอกสัคน
			5) หมู่ที่ 5 บ้านดินเนิน
			6) หมู่ที่ 6 บ้านหนองตาเสือ
			7) หมู่ที่ 7 บ้านคาสี
			8) หมู่ที่ 8 บ้านละหารไร่
			9) หมู่ที่ 9 บ้านควยช้าง
			10) หมู่ที่ 10 บ้านมาบดอง
			11) หมู่ที่ 11 บ้านซากไม้รวก
	ปลวกแดง	องค์การบริหารส่วนตำบลบางบุตร	1) หมู่ที่ 2 บ้านบางบุตร
		องค์การบริหารส่วนตำบลหนองตะพาน	1) หมู่ที่ 6 บ้านคลองจระเข้
		องค์การบริหารส่วนตำบลแม่แก้ว	1) หมู่ที่ 1 บ้านแม่แก้วเก่า
		2) หมู่ที่ 6 บ้านโพธิ์หวาย	2) หมู่ที่ 6 บ้านโพธิ์หวาย
1 จังหวัด	3 อำเภอ	5 ตำบล	17 ชุมชน/หมู่บ้าน

ที่มา : บริษัท เอ็นแอล 2 จำกัด (ประเทศไทย) จำกัด, 2568



รูปที่ 1 พื้นที่ศึกษาในการสำรวจความคิดเห็นต่อการดำเนินโครงการ รัศมี 5 กิโลเมตรรอบที่ตั้งโครงการ

#### 4. วิธีการศึกษา

การศึกษาในครั้งนี้ ใช้การรวบรวมข้อมูลโดยการสำรวจข้อมูลภาคสนาม โดยวิธีการวิจัยเชิงสำรวจ (Survey Research) และใช้แบบสอบถาม (Questionnaire) เป็นเครื่องมือในการสำรวจและเก็บรวบรวมข้อมูล ซึ่งมีวิธีรวบรวมข้อมูลตามวัตถุประสงค์ของการวิจัยโดยการสำรวจภาคสนาม (Field Survey) และแสดงความคิดเห็นผ่านแบบสอบถาม ซึ่งขั้นตอนการศึกษาประกอบด้วย กลุ่มเป้าหมายในการสำรวจความคิดเห็นและวิธีการสุ่มตัวอย่าง เครื่องมือที่ใช้ในการสำรวจความคิดเห็น การเตรียมความพร้อมในการสำรวจภาคสนาม วิธีการเก็บข้อมูลภาคสนาม การวิเคราะห์ข้อมูล และการแปลผลข้อมูล โดยมีรายละเอียดดังนี้

##### 4.1 กลุ่มเป้าหมายในการสำรวจความคิดเห็นและวิธีการสุ่มตัวอย่าง

กำหนดกลุ่มเป้าหมาย (Target Population) ในการสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็นต่อโครงการ ให้ครอบคลุมกลุ่มต่าง ๆ ในพื้นที่ศึกษามี 5 กิโลเมตร รอบที่ตั้งโครงการ ทั้งนี้เพื่อให้การสำรวจครอบคลุมถึงกำหนดกลุ่มเป้าหมายที่สำรวจแบ่งเป็น 3 กลุ่มหลัก รายละเอียดแสดงดังรูปที่ 2 ซึ่งวิธีการสำรวจข้อมูล และการกำหนดกลุ่มเป้าหมาย อธิบายได้ดังนี้



รูปที่ 2 กลุ่มเป้าหมาย

##### 1) กลุ่มหน่วยงานราชการต่างๆ ที่เกี่ยวข้อง

กลุ่มตัวอย่างหน่วยงาน ซึ่งเป็นตัวแทนหน่วยงานราชการที่เกี่ยวข้อง ที่มีบทบาทหน้าที่ในการกำกับการดำเนินการกิจกรรมของโครงการในด้านต่าง ๆ ทั้งทางตรงและทางอ้อม ได้แก่ หน่วยงานด้านสิ่งแวดล้อมและการกำกับดูแล หน่วยงานด้านการบริหารและการปกครอง หน่วยงานด้านการบริการสุขภาพ สถานการศึกษา และหน่วยงานด้านสาธารณสุขและประชากร ซึ่งเป็นตัวแทนหน่วยงาน สถาบันต่าง ๆ ที่มีบทบาทหน้าที่ทางสังคม โดยใช้วิธีการสุ่มตัวอย่างแบบเฉพาะเจาะจง (Purposive Sampling) เพื่อให้ได้รับทราบเกี่ยวกับความคิดเห็น และข้อเสนอแนะต่อการดำเนินโครงการ กำหนดให้สำรวจทุกหน่วยงาน จำนวนโดยรวม 27 หน่วยงาน รายละเอียดแสดงดังตารางที่ 2

#### ตารางที่ 2 กลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง

กลุ่มตัวอย่าง	รายละเอียดกลุ่มย่อย	รายชื่อหน่วยงาน
กลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง	กลุ่มหน่วยงานด้านสิ่งแวดล้อมและการกำกับดูแล (จำนวน 4 หน่วยงาน)	- สำนักงานสิ่งแวดล้อมจังหวัดระยอง - สำนักงานทรัพยากรธรรมชาติและสิ่งแวดล้อมจังหวัดระยอง - สำนักงานอุตสาหกรรมจังหวัดระยอง - เขตประกอบการอุตสาหกรรมเคบิลระยอง ระยอง
	กลุ่มหน่วยงานด้านการบริหารและการปกครอง (จำนวน 9 หน่วยงาน)	- ที่ว่าการอำเภอเนินพัฒนา - ที่ว่าการอำเภอบางแค - ที่ว่าการอำเภอบ้านค่าย - เทศบาลตำบลนิคมพัฒนา - องค์การบริหารส่วนตำบลหนองละลอก - องค์การบริหารส่วนตำบลบางบุตร - องค์การบริหารส่วนตำบลหนองสะพาน - องค์การบริหารส่วนตำบลแม่ไม้คู่ - องค์การบริหารส่วนตำบลนิคมพัฒนา
	กลุ่มหน่วยงานด้านการบริการสุขภาพ (จำนวน 6 หน่วยงาน)	- โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านสิริบรรณ - โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านดอยอ่าง - โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านคลองน้ำเย็น - โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านชะหารไร่ - โรงพยาบาลบ้านค่าย - สำนักงานสาธารณสุขจังหวัดระยอง
กลุ่มสถานศึกษา (จำนวน 7 หน่วยงาน)		- โรงเรียนวัดคอนจีนหนึ่ง - โรงเรียนวัดหนองกระบอก - โรงเรียนวัดชะหารไร่ - โรงเรียนบ้านหนองละลอก - โรงเรียนบ้านมาตอง - โรงเรียนบ้านค่าย - วิทยาลัยเทคนิคบ้านค่าย
	กลุ่มหน่วยงานด้านสาธารณสุขและประชากร (จำนวน 1 หน่วยงาน)	- สำนักงานป้องกันและบรรเทาสาธารณภัยจังหวัดระยอง

ที่มา : บริษัท เ็นแอล 2 จำกัด (ประเทศไทย) จำกัด, 2568

##### 2) กลุ่มผู้ปกครอง

กลุ่มตัวอย่างผู้นำชุมชน โดยใช้วิธีการสุ่มตัวอย่างแบบเฉพาะเจาะจง (Purposive Sampling) เช่นเดียวกับหน่วยงานที่เกี่ยวข้อง ซึ่งเป็นตัวแทนของชุมชน/หมู่บ้านในการให้ข้อมูลสำคัญของชุมชน/หมู่บ้านในพื้นที่ศึกษา ที่มีบทบาทหน้าที่ทางสังคมที่ให้การยอมรับจากชุมชน และสามารถให้ข้อมูลที่สะท้อนความคิดเห็นในภาพรวมของชุมชนได้ เป็นการสุ่มตัวอย่างจากกลุ่มเป้าหมายประกอบด้วย กำนัน ผู้ใหญ่บ้าน/ผู้ช่วยผู้ใหญ่บ้าน/คณะกรรมการหมู่บ้าน ประธาน/รองประธาน/คณะกรรมการชุมชน หรือบุคคลที่กำนัน ผู้ใหญ่บ้าน และผู้นำสามารถให้ข้อมูลในภาพรวมของชุมชนได้ โดยกำหนดให้สำรวจตัวแทนของชุมชน/หมู่บ้านอย่างน้อยชุมชน/หมู่บ้านละ 1 ตัวอย่าง

##### 3) กลุ่มครัวเรือน

การสำรวจความคิดเห็นประชาชนได้ทำการเก็บตัวอย่างชุมชนที่อยู่ในรัศมีพื้นที่ศึกษา 5 กิโลเมตรรอบที่ตั้งโครงการ ใช้การแบ่งตามเขตการปกครองของเทศบาล และขององค์การบริหารส่วนตำบล โดย ได้ทำการสุ่มให้กระจายครอบคลุมบริเวณพื้นที่ศึกษา และบริเวณที่มีการตั้งจุดตรวจวัดคุณภาพสิ่งแวดล้อมของโครงการ ทำการสัมภาษณ์ครัวเรือนละ 1 ตัวอย่างเท่านั้น

■ **การกำหนดขนาดของกลุ่มตัวอย่าง :** การสุ่มตัวอย่างระดับประชากรในการสำรวจในครั้งนี้ ได้ทำการกำหนดกลุ่มตัวอย่างในการสำรวจ โดยใช้สูตรของทาโร ยามานะ (Taro Yamane) เนื่องจากเป็นสูตรที่ใช้คำนวณขนาดของกลุ่มตัวอย่างในการมีที่ทราบจำนวนประชากรแน่นอน (จิตราภา คุณพลบุตร, 2550, Yamane, T. 1973: 1088) ดังนี้

$$n = \frac{N}{1 + Ne^2} \quad \text{----- (1)}$$

โดยที่ n คือ จำนวนตัวอย่าง  
N คือ จำนวนหน่วยครัวเรือนในพื้นที่ศึกษา  
e คือ ความคลาดเคลื่อนที่ยอมรับได้ (ร้อยละ 5)

ในที่นี้กำหนดระดับความเชื่อมั่นร้อยละ 95 หรือมีค่าความคลาดเคลื่อนเท่ากับ  $\pm 0.05$  เมื่อคำนวณจำนวนตัวอย่างโดยใช้สูตรของ Taro Yamane จากจำนวนครัวเรือนที่อยู่ในพื้นที่อาศัยอยู่โดยรอบโครงการ ภายในพื้นที่รัศมี 5 กิโลเมตร จากที่ตั้งโครงการ

ในการคำนวณจำนวนตัวอย่างครั้งนี้ จะใช้วิธีการคำนวณตัวอย่างโดยใช้สูตรการคำนวณเดียวกันทั้งในพื้นที่ชุมชนในเขตเทศบาลตำบล และองค์การบริหารส่วนตำบล ในการคำนวณจะพิจารณาออกเป็น 2 กลุ่ม คือ กลุ่มชุมชนในเขตเทศบาลตำบล และชุมชนในเขตองค์การบริหารส่วนตำบล รายละเอียดตารางที่ 3 และสามารถแสดงวิธีการคำนวณได้ดังนี้

##### (1) การคำนวณตัวอย่างในเขตพื้นที่ศึกษาของเทศบาลตำบล

จำนวนครัวเรือนในเขตเทศบาลตำบลบริเวณพื้นที่ศึกษามี 5 กิโลเมตร ซึ่งมี 1 ชุมชนที่อยู่ในพื้นที่ศึกษา ได้แก่ชุมชนสายเอกพัฒนา มีจำนวนครัวเรือนทั้งหมด 137 ครัวเรือน สามารถแทนค่าในสูตรดังสมการ (1) ได้ดังนี้

$$n = \frac{137}{1 + (137 \times (0.05)^2)}$$

$$n = 102.05$$

$$n \approx 103 \text{ ตัวอย่าง}$$

ดังนั้น ขนาดของกลุ่มตัวอย่างที่ทำการสำรวจต้องไม่น้อยกว่า 103 ตัวอย่าง แสดงดังตารางที่ 3

##### (2) การคำนวณตัวอย่างในเขตพื้นที่ศึกษาขององค์การบริหารส่วนตำบล

จำนวนครัวเรือนในเขตเทศบาลตำบลบริเวณพื้นที่ศึกษามี 5 กิโลเมตร มีจำนวนครัวเรือนทั้งหมด 14,351 ครัวเรือน สามารถแทนค่าในสูตรดังสมการ (1) ได้ดังนี้

$$n = \frac{14,351}{1 + (14,351 \times (0.05)^2)}$$

$$n = 389.15$$

$$n \approx 390 \text{ ตัวอย่าง}$$

ดังนั้น ขนาดของกลุ่มตัวอย่างที่ทำการสำรวจต้องไม่น้อยกว่า 390 ตัวอย่าง

เนื่องจากชุมชนที่มีโอกาสได้พบผลกระทบมากกว่าคือ ชุมชนในพื้นที่โดยรอบโครงการในรัศมี 0-3 กิโลเมตร การศึกษาในครั้งนี้จึงได้นำมาในการศึกษาต่อพื้นที่มากกว่า โดยกำหนดสัดส่วนจำนวนตัวอย่างในพื้นที่เป็นร้อยละ 70 ของจำนวนตัวอย่างทั้งหมด ได้จำนวนตัวอย่างในแต่ละพื้นที่ดังนี้

- ชุมชนในพื้นที่โดยรอบโครงการฯ ในรัศมี 0-3 กิโลเมตร กำหนดจำนวนตัวอย่างไม่น้อยกว่า 273 ตัวอย่าง
- ชุมชนในพื้นที่โดยรอบโครงการฯ ในรัศมี 3-5 กิโลเมตร กำหนดจำนวนตัวอย่างไม่น้อยกว่า 117 ตัวอย่าง

#### ชุมชนในพื้นที่โดยรอบโครงการฯ ในรัศมี 0-3 กิโลเมตร

ค่านักหนักในการศึกษาต่อพื้นที่นี้ โดยกำหนดสัดส่วนจำนวนตัวอย่างในพื้นที่นี้เป็นร้อยละ 70 เมื่อคำนวณจำนวนตัวอย่างโดยใช้สมการที่ (1) จะนำมากระจายตามสัดส่วนของประชากรแต่ละชุมชนในพื้นที่ศึกษา เพื่อให้ทุกหน่วยของประชากรมีโอกาสถูกเลือกเท่าๆ กันดังสมการที่ (2)

$$\text{ยกตัวอย่างเช่น : หมู่ที่ 1 บ้านคลองน้ำเย็น} = \frac{1,108 \times 273}{7,365} \approx 41.1$$

#### ชุมชนในพื้นที่โดยรอบโครงการฯ ในรัศมี 3-5 กิโลเมตร

ค่านักหนักในการศึกษาต่อพื้นที่นี้ โดยกำหนดสัดส่วนจำนวนตัวอย่างในพื้นที่นี้เป็นร้อยละ 30 เมื่อคำนวณจำนวนตัวอย่างโดยใช้สมการที่ (1) จะนำมากระจายตามสัดส่วนของประชากรแต่ละชุมชนในพื้นที่ศึกษา เพื่อให้ทุกหน่วยของประชากรมีโอกาสถูกเลือกเท่าๆ กันดังสมการที่ (2)

$$\text{ยกตัวอย่างเช่น : หมู่ที่ 2 บ้านกระโสม} = \frac{227 \times 117}{6,986} \approx 3.8$$

สัดส่วนระหว่างจำนวนตัวอย่างกับจำนวนครัวเรือนแต่ละกลุ่มตัวอย่างในการสำรวจต้องไม่น้อยกว่า 390 ตัวอย่าง ซึ่งที่ปรึกษาได้ดำเนินการสำรวจจริงทั้งสิ้น 408 ตัวอย่าง โดยสัดส่วนตัวอย่างทั้งหมดกับจำนวนครัวเรือนในแต่ละชุมชน แสดงดังตารางที่ 3

#### ตารางที่ 3 จำนวนตัวอย่างในการสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็นต่อการดำเนินโครงการ

เขตการปกครอง	ชุมชน/หมู่บ้าน	จำนวน ครัวเรือน	จำนวน (ตัวอย่าง)	
			จากการคำนวณ	ที่สำรวจจริง
เขตองค์การบริหารส่วนตำบล				
รัศมี 0-3 กิโลเมตร (70%)				
อำเภอบ้านค่าย				
อบต.หนองละลอก	หมู่ที่ 1 บ้านคลองน้ำเย็น	1,108	41.1	42
	หมู่ที่ 3 บ้านหนองละลอก	959	35.5	37
	หมู่ที่ 4 บ้านคลองสัดบัน	1,525	56.5	58
	หมู่ที่ 9 บ้านตัวอย่าง	1,315	48.7	50
	หมู่ที่ 10 บ้านมาบตอง	760	28.2	29
	หมู่ที่ 11 บ้านเขาไม้รัก	1,698	62.9	64
รวมรัศมี 0-3 กิโลเมตร		7,365	273.0	280
รัศมี 3-5 กิโลเมตร (30%)				
อำเภอบ้านค่าย				
อบต.หนองละลอก	หมู่ที่ 2 บ้านกระโสม	227	3.8	5
	หมู่ที่ 5 บ้านตึ๊ดเงิน	557	9.3	10
	หมู่ที่ 6 บ้านหนองคันเสี้ยว	622	10.4	11
	หมู่ที่ 7 บ้านคลองสี	205	3.4	4
	หมู่ที่ 8 บ้านชะนาไร่	629	10.5	12
	อบต.บางบุตร	หมู่ที่ 2 บ้านบางบุตร	1,109	18.6
อบต.หนองชะพาน	หมู่ที่ 6 บ้านคลองช้างค้าย	271	4.5	6
อำเภอปลวกแดง				
อบต.แม่ไม้คู่	หมู่ที่ 1 บ้านแม่ไม้คู่เก่า	1,116	18.7	20
	หมู่ที่ 6 บ้านพัฒนาผิง 2	926	15.5	17
อำเภอนิคมพัฒนา				
อบต.นิคมพัฒนา	หมู่ที่ 1 บ้านนิคม	1,324	22.2	23
รวมรัศมี 3-5 กิโลเมตร		6,986	117.0	128
รวมในเขต อบต. 0-5 กิโลเมตร		14,351	390.0	408
เขตเทศบาล				
เทศบาลเมืองนิคมพัฒนา	ชุมชนสาธิตพัฒนา**	137	102.0	103
รวมในเขตเทศบาล 0-5 กิโลเมตร		137	102.0	103
รวมทั้งหมด		14,488	492.0	511

หมายเหตุ : \*กรมการปกครอง กระทรวงมหาดไทย, 2567 สืบค้นข้อมูลเมื่อเดือนกรกฎาคม พ.ศ. 2568 และข้อมูลจากการตรวจนับในพื้นที่รัศมี 5 กิโลเมตร ร่วมกับตรวจสอบจากภาพถ่ายทางอากาศ

ที่มา : บริษัท เ็นมอนด์ แลบริราฟารี กรุ๊ป (ประเทศไทย) จำกัด, พ.ศ. 2568

#### 4.2 เครื่องมือที่ใช้ในการสำรวจสภาพสังคม-เศรษฐกิจ

การสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็นต่อการโครงการ ใช้แบบสอบถาม (Questionnaire) เป็นเครื่องมือในการเก็บรวบรวมข้อมูลจากกลุ่มเป้าหมายแต่ละกลุ่ม ซึ่งได้ออกแบบเครื่องมือสำรวจแบบมีโครงสร้าง (Structured Survey) เป็นรูปแบบของคำถามมีลักษณะเป็นคำถามแบบปลายเปิดและคำถามแบบปลายปิด ทั้งนี้ ได้มีการแสดงคำชี้แจงข้อมูลภายใต้พระราชบัญญัติคุ้มครองข้อมูลส่วนบุคคล พ.ศ. 2562 (Personal Data Protection Act: PDPA) ไว้ในส่วนหน้าของแบบสอบถาม โดยแบบสอบถามที่ใช้ในการสำรวจมีจำนวน 3 ชุด สำหรับใช้ในการเก็บรวบรวมข้อมูลจากกลุ่มเป้าหมาย ประกอบด้วย กลุ่มหน่วยงานราชการต่างๆ ที่เกี่ยวข้อง กลุ่มผู้นำชุมชน และกลุ่มครัวเรือนในพื้นที่ศึกษา แต่ละชุดแบบสอบถามมีโครงสร้างของแบบสอบถาม ดังนี้ (ตัวอย่างแบบสอบถาม แสดงดังภาคผนวก 1)

##### 1) แบบสอบถามกลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง

- ส่วนที่ 1 ข้อมูลทั่วไป
- ส่วนที่ 2 ข้อมูลด้านสภาพแวดล้อมในปัจจุบันของหน่วยงาน/ชุมชน
- ส่วนที่ 3 การรับทราบข้อมูล/ข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ
- ส่วนที่ 4 ผลกระทบและทัศนคติต่อการดำเนินงานของโครงการ
- ส่วนที่ 5 ความเชื่อมั่น และความคิดเห็นต่อโครงการ

##### 2) แบบสอบถามกลุ่มผู้นำชุมชน

- ส่วนที่ 1 ข้อมูลทั่วไป
- ส่วนที่ 2 สภาพเศรษฐกิจ สังคมของชุมชน
- ส่วนที่ 3 ข้อมูลด้านสาธารณสุขและสาธารณูปโภคชุมชน
- ส่วนที่ 4 ข้อมูลด้านสภาพแวดล้อมในปัจจุบันของชุมชน
- ส่วนที่ 5 การรับทราบข้อมูล/ข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ
- ส่วนที่ 6 ผลกระทบและทัศนคติต่อการดำเนินโครงการ
- ส่วนที่ 7 ความเชื่อมั่น และความคิดเห็นต่อโครงการ

##### 3) แบบสอบถามกลุ่มครัวเรือน

- ส่วนที่ 1 ข้อมูลทั่วไป
- ส่วนที่ 2 ข้อมูลด้านสภาพเศรษฐกิจของครัวเรือน
- ส่วนที่ 3 ข้อมูลด้านสุขภาพอนามัยและสาธารณูปโภค
- ส่วนที่ 4 ข้อมูลด้านสภาพแวดล้อมในปัจจุบันของชุมชน
- ส่วนที่ 5 การรับทราบข้อมูล/ข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ
- ส่วนที่ 6 ผลกระทบและทัศนคติต่อการดำเนินโครงการ
- ส่วนที่ 7 ความเชื่อมั่น และความคิดเห็นต่อโครงการ

#### 4.3 การเตรียมความพร้อมในการสำรวจภาคสนาม

เพื่อให้การสำรวจภาคสนาม สามารถรวบรวมข้อมูลได้ตรงตามวัตถุประสงค์ของการศึกษา และมีความคลาดเคลื่อนน้อยที่สุด จึงจัดเตรียมความพร้อมก่อนการสำรวจภาคสนาม ดังนี้

(1) ตรวจสอบความถูกต้องของแบบสอบถามของแต่ละกลุ่มเป้าหมาย โดยจัดเตรียมจำนวนของแบบสอบถามให้เพียงพอกับจำนวนตัวอย่างที่กำหนด

(2) การประสานงานก่อนพื้นที่สำรวจความคิดเห็น มีรายละเอียดดังนี้

2.1) ส่งจดหมายขอความอนุเคราะห์ตอบแบบสำรวจต่อหน่วยงานราชการต่างๆ ที่เกี่ยวข้องไปยังผู้รับผิดชอบ/ผู้บังคับบัญชาของหน่วยงานดังกล่าวล่วงหน้าโดยตรง ซึ่งผู้รับผิดชอบ/ผู้บังคับบัญชาจะพิจารณาถึงความสะดวกในการให้ความคิดเห็น หากไม่สามารถให้ความคิดเห็นได้จะมอบหมายให้ตัวแทนเป็นผู้แสดงความคิดเห็นแทนเพื่อให้ความเห็นในการสำรวจความคิดเห็นครั้งนี้เป็นตัวแทนของหน่วยงานของกลุ่มตัวอย่างที่เหมาะสม

2.2) การสำรวจความคิดเห็นในส่วนของกลุ่มครัวเรือนและกลุ่มผู้นำชุมชนจะมีการประสานงานเพื่อแจ้งให้ทราบล่วงหน้าถึงกำหนดการ ขอเข้าพื้นที่ และนำส่งหนังสือขอความอนุเคราะห์ตอบแบบสำรวจต่อผู้นำชุมชน

#### 4.4 วิธีการเก็บข้อมูลภาคสนาม

การสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็นต่อการโครงการ ได้ดำเนินการระหว่างวันที่ 19-22 สิงหาคม พ.ศ. 2568 มีวิธีการดังนี้

(1) ยอมรับการแนะนำสัมภาษณ์ภาคสนาม เพื่อให้มีความรู้ ความเข้าใจในประเด็นต่าง ๆ ในระดับที่สามารถให้ข้อมูล และตอบข้อซักถามของผู้ให้สัมภาษณ์หรือผู้ให้คำตอบได้ในระดับหนึ่ง โดยทำการคัดเลือกพนักงานสัมภาษณ์ภาคสนามและจัดอบรม เพื่อให้บริการและเข้าใจในประเด็นต่าง ๆ ที่เกี่ยวข้อง ได้แก่

- ความเป็นมา วัตถุประสงค์ของโครงการ และรายละเอียดโครงการ
- วัตถุประสงค์และเป้าหมายในการสำรวจ
- อธิบายคำชี้แจงที่แสดงไว้ในแบบสอบถาม
- วัตถุประสงค์และขอบเขตของคำถามแต่ละข้อ
- เทคนิควิธีการสัมภาษณ์ เช่น เทคนิคการแนะนำคน การเข้าสู่เรื่องที่จะสัมภาษณ์ การสร้างความเป็นกันเอง ของผู้ตอบก่อนบันทึกภาพ การจับบันทึกคำตอบ การสอบถามข้อมูลเพิ่มเติม และการตรวจสอบความสอดคล้องหรือความถูกต้องของคำตอบที่ได้รับ

(2) ตรวจสอบแบบสอบถาม ภายใต้การควบคุมดูแลของผู้มีประสบการณ์ภาคสนามซึ่งทำหน้าที่ตรวจสอบความถูกต้องของแบบสอบถามแต่ละชุดทั้งในส่วนของกลุ่มประชาชนตัวแทนหลังการเลือกกลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง พร้อมทั้งตรวจสอบความถูกต้องของข้อมูลและสมบูรณ์เพียงพอที่จะนำมาแปลผล

### (3) วิธีการสุ่มตัวอย่างครัวเรือนในพื้นที่ศึกษา

โดยการสำรวจความคิดเห็นจากกลุ่มตัวอย่างครัวเรือนในแต่ละชุมชนในพื้นที่ศึกษาในครั้งนี้ ได้เลือกกลุ่มตัวอย่างครัวเรือนที่เป็นตัวแทนมาศึกษา โดยใช้การเลือกกลุ่มตัวอย่างแบบการสุ่มตัวอย่างโดยอาศัยหลักความน่าจะเป็น (Probability Sampling) และใช้วิธีการสุ่มตัวอย่างแบบเป็นระบบ (Systematic Random Sampling) โดยจะกระจายการสุ่มตัวอย่างตามสัดส่วนครัวเรือนที่อาศัยอยู่ในแต่ละพื้นที่ โดยให้ครอบคลุมค่าหลักในพื้นที่ศึกษา โดยจะกระจายการสุ่มตัวอย่างตามสัดส่วนครัวเรือนที่อาศัยอยู่ในแต่ละพื้นที่ โดยให้ครอบคลุมค่าหลักในพื้นที่ศึกษา โดยมีขั้นตอนดังนี้

ขั้นตอนที่ 1 : จำแนกครัวเรือนที่อาศัยอยู่โดยรอบโครงการฯ ภายในพื้นที่ศึกษาจากที่ตั้งโครงการฯ

ขั้นตอนที่ 2 : ทำการสุ่มตัวอย่างครัวเรือนรายตำบล โดยทำการเก็บรวบรวมข้อมูลจากผู้นวนครัวเรือน ครัวเรือนละ 1 ราย โดยคำนึงถึงการกระจายของพื้นที่อย่างสม่ำเสมอ จากนั้นจะทำการเก็บรวบรวมข้อมูลให้ได้นอกจากนี้ยังสุ่มตัวอย่างครัวเรือนในแต่ละตำบลตามสัดส่วนจำนวนประชากร โดยมีวิธีการดังนี้

(ก) การสุ่มตัวอย่างครัวเรือนจะสุ่มตัวอย่างครัวเรือนในตำบลที่ได้กำหนดไว้ และจำนวนตัวอย่างขึ้นอยู่กับตามที่ได้คำนวณตามสัดส่วนของชุมชนนั้นๆ

(ข) การเลือกพื้นที่เป้าหมายเบื้องต้นเพื่อสุ่มตัวอย่าง จะเลือกพื้นที่ที่มีจำนวนครัวเรือนหนาแน่นเป็นหลัก โดยพิจารณาจากแผนที่และการสำรวจเบื้องต้น และกำหนดให้สุ่มตัวอย่างกระจายอย่างทั่วถึงในพื้นที่นั้นๆ หากชุมชนที่ทำการสำรวจมีพื้นที่ที่มีจำนวนครัวเรือนหนาแน่นอื่นๆ จะทำการสำรวจให้ครอบคลุมทุกพื้นที่ในชุมชนนั้นๆ ด้วยเพื่อให้ได้ผลการกระจายของตัวอย่างและให้เป็นตัวแทนที่ครอบคลุมทั้งตำบล

(ค) การเลือกครัวเรือนเป้าหมายเพื่อสุ่มตัวอย่าง จะไม่กำหนดว่าจะเก็บแบบใด หรือครัวเรือนใด ทุกๆ ครัวเรือนมีโอกาสที่จะถูกเลือกเช่นเดียวกัน แต่จะสุ่มตัวอย่างตามความเหมาะสมของสถานการณ์ที่เกิดขึ้นในการสำรวจ เช่น ร้านค้า หรือบ้านเรือนที่สะดวกให้เข้าสัมภาษณ์และยินดีที่จะให้ความคิดเห็น แต่มีข้อจำกัดเบื้องต้นในการสุ่มตัวอย่าง โดยต้องทำการสุ่มตัวอย่างให้ครอบคลุมทั้งพื้นที่เป้าหมาย และต้องไม่มีการเลือกตัวอย่างจากความรู้สึกและอคติส่วนตัว (Bias) เช่น การเลือกสุ่มตัวอย่างเพื่อทำการสัมภาษณ์เฉพาะเพศชาย หรือช่วงอายุใดอายุหนึ่ง เป็นต้น

(ง) การตรวจสอบตัวอย่างครัวเรือนเป้าหมายเบื้องต้น เพื่อให้เป็นตัวแทนที่ดีของกลุ่มตัวอย่างครัวเรือน จะกำหนดให้พนักงานสัมภาษณ์สอบถามผู้ให้สัมภาษณ์ว่าเป็นผู้ที่อยู่อาศัยในพื้นที่เป้าหมายหรือไม่ หากเป็นผู้ที่อยู่อาศัยในพื้นที่จริงจะดำเนินการสัมภาษณ์ในขั้นตอนต่อไป

### 4.5 การวิเคราะห์ข้อมูล

ข้อมูลที่ได้จากการสัมภาษณ์โดยใช้แบบสอบถาม จะถูกนำมาวิเคราะห์ และประมวลผลการศึกษา โดยการวิเคราะห์ข้อมูลจะใช้โปรแกรมสำเร็จรูปทางสถิติ (Statistics Package for the Social Sciences) สำหรับสถิติที่ใช้ในการวิเคราะห์ข้อมูลจากแบบสอบถาม คือ สถิติเชิงพรรณนา (Descriptive Statistic) ได้แก่ ค่าความถี่ (Frequency) ค่าร้อยละ (Percentage) และค่าเฉลี่ย (Average) ใช้เพื่ออธิบายข้อมูลด้านต่าง ๆ เช่น ความคิดเห็นต่อการโครงการ การรับรู้ข้อมูลข่าวสารโครงการ ความพึงพอใจต่อการดูแลสังคมของโครงการ เป็นต้น เมื่อได้ทำการแปลผล และจัดทำตารางแสดงข้อมูลเป็นรูปแบบตารางแจกแจงความถี่ ร้อยละ และเรียงเรียบร้อยแล้ว จะนำเสนอผลการสำรวจความคิดเห็นแยกเป็นระดับหน่วยงานราชการต่างๆ ที่เกี่ยวข้อง ผู้นำชุมชน ครัวเรือน พร้อมทั้งบรรยายสรุปผลการสำรวจความคิดเห็นเป็นร้อยละ แยกตามกลุ่มเป้าหมายตามที่กล่าวข้างต้น

### 4.6 การแปลผลข้อมูล

#### 1) การแปลผลโดยใช้สถิติเชิงพรรณนา (Descriptive Statistic)

วิธีการโดยหาความถี่ (จำนวน) ในแต่ละคำตอบ แล้วแปลความถี่เหล่านั้นให้อยู่ในรูปร้อยละ (Percentage) ข้อมูลที่ใช้การวิเคราะห์ลักษณะนี้เป็นแบบสอบถามปลายปิด มีลักษณะให้เลือกตอบ

#### 2) การแปลผลแบบมาตราส่วนประมาณค่า

คำถามเพื่อต้องการทราบความคิดเห็นที่มีลักษณะคำถามเป็นแบบมาตราส่วนประมาณค่าของลิเคิร์ต (Likert Scale) และใช้การวัดข้อมูลประเภทอันดับมาตราขึ้น (Interval Scale) ได้ทำการหาค่าเฉลี่ยคะแนนความคิดเห็น โดยกำหนดคะแนนแบบห้าขั้นให้แต่ละช่วงของระดับความคิดเห็นแล้วคำนวณค่าเฉลี่ย จากนั้นนำค่าเฉลี่ยที่ได้ไปเทียบกับเกณฑ์การแปลความหมาย ซึ่งการหาค่าเฉลี่ยโดยทั่วไปก็มักจะใช้ผลรวมของผลคูณระหว่างค่ามัธยฐานของแต่ละระดับกับค่าความถี่ในระดับนั้น แล้วหารด้วยความถี่ทั้งหมด การแปลความหมายคะแนนเฉลี่ยในแต่ละระดับใช้เกณฑ์ในการแปลความหมายคะแนนตามเกณฑ์ของเบสท์ (Best 1981:179-187) โดยมีหลักเกณฑ์การให้คะแนน ดังนี้

การประเมินระดับความพึงพอใจ มีเกณฑ์การให้คะแนน ดังนี้

ระดับมากที่สุด	ให้	5	คะแนน
ระดับมาก	ให้	4	คะแนน
ระดับปานกลาง	ให้	3	คะแนน
ระดับน้อย	ให้	2	คะแนน
ระดับน้อยที่สุด	ให้	1	คะแนน

### การแปลความหมายคะแนนเฉลี่ย ดังนี้

คะแนนเฉลี่ย 4.51 - 5.00	หมายถึง มากที่สุด
คะแนนเฉลี่ย 3.51 - 4.50	หมายถึง มาก
คะแนนเฉลี่ย 2.51 - 3.50	หมายถึง ปานกลาง
คะแนนเฉลี่ย 1.51 - 2.50	หมายถึง น้อย
คะแนนเฉลี่ย 1.00 - 1.50	หมายถึง น้อยที่สุด

### 5. ผลการสำรวจสภาพเศรษฐกิจ-สังคม

ผลการศึกษาสภาพเศรษฐกิจ สังคม และความคิดเห็นรายครัวเรือน โดยทั่วไปของพื้นที่ศึกษาจากตัวแทนหน่วยงานราชการต่างๆที่เกี่ยวข้อง ผู้นำชุมชน และตัวแทนประชาชน การสำรวจความคิดเห็น แสดงดังรูปที่ 3 และรูปที่ 4 สรุปผลการสำรวจความคิดเห็นได้ดังนี้



ตัวแทนครัวเรือนหมู่ที่ 2 บ้านกระโสม



ตัวแทนครัวเรือนหมู่ที่ 1 บ้านคลองน้ำเย็น



ตัวแทนครัวเรือนหมู่ที่ 5 บ้านดินเนิน



ตัวแทนครัวเรือนหมู่ที่ 6 บ้านหนองหาเสียง



ตัวแทนครัวเรือนหมู่ที่ 11 บ้านเขาไม้วาง



ตัวแทนครัวเรือนหมู่ที่ 10 บ้านมาบดอง

รูปที่ 3 บรรยากาศการสำรวจความคิดเห็นตัวแทนครัวเรือนในรัศมี 5 กิโลเมตร

## 5.1 ผลการสำรวจความคิดเห็นของกลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง

โครงการได้ทำการสัมภาษณ์ตัวแทนหน่วยงานราชการในพื้นที่ศึกษา ประกอบด้วย หน่วยงานปกครองส่วนท้องถิ่น สถาบันการศึกษา โดยทำการสัมภาษณ์ตัวแทนหน่วยงาน จำนวน 27 ตัวอย่าง (แสดงรายละเอียดของกลุ่มตัวอย่างอ้างอิงดังตารางที่ 4) และผลการสำรวจความคิดเห็น แสดงดังเอกสารแนบ 2 และสามารถสรุปรายละเอียดของผลการศึกษาดังนี้

ตารางที่ 4 แสดงจำนวนตัวอย่างของกลุ่มหน่วยงานราชการ

ลำดับ	รายชื่อหน่วยงาน	ตำแหน่งกลุ่มเป้าหมายที่ตอบแบบสอบถาม
1	สำนักงานป้องกันและบรรเทาสาธารณภัยจังหวัดระยอง	สารวัตรนิเทศปฏิบัติการ
2	สำนักงานอุตสาหกรรมจังหวัดระยอง	วิศวกรปฏิบัติการ
3	สำนักงานสาธารณสุขอำเภอร่อง	นักวิชาการสาธารณสุขปฏิบัติการ
4	ที่ว่าการอำเภอบ้านค่าย	พนักงานราชการ
5	ที่ว่าการอำเภอนิคมพัฒนา	ปลัดอำเภอ
6	โรงพยาบาลส่งเสริมสุขภาพตำบลคลองน้ำเย็น	ผู้อำนวยการสาธารณสุข
7	โรงพยาบาลส่งเสริมสุขภาพตำบลหมู่บ้านตัวอย่าง	ผู้อำนวยการ
8	โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านสักรวน	ไมระบุ
9	โรงพยาบาลส่งเสริมสุขภาพตำบลบ้านและหารไร่	ผู้อำนวยการสาธารณสุข
10	โรงพยาบาลบ้านค่าย	นักสาธารณสุข
11	โรงเรียนวัดดอนจันทร์	ผู้อำนวยการโรงเรียน
12	โรงเรียนวัดละหารไร่	ผู้อำนวยการโรงเรียน
13	โรงเรียนวัดหนองกระบอก	ครู
14	สำนักงานทรัพยากรธรรมชาติและสิ่งแวดล้อมจังหวัดระยอง	นักวิเคราะห์นโยบายและแผน
15	โรงเรียนบ้านหนองละลอก	ผู้อำนวยการโรงเรียน
16	โรงเรียนบ้านคาง	ครูชำนาญการพิเศษ
17	โรงเรียนบ้านคาง	ครู
18	วิทยาลัยเทคนิคบ้านค่าย	ช่างยนต์
19	เทศบาลเมืองนิคมพัฒนา	เจ้าพนักงานสาธารณสุขชำนาญงาน
20	เขตประกอบการอุตสาหกรรมระดับจังหวัดระยอง	วิศวกรอาวุโส
21	องค์การบริหารส่วนตำบลหนองละลอก	ผู้อำนวยการสาธารณสุข
22	สำนักงานพลังงานจังหวัดระยอง	นายช่างเทคนิคชำนาญการ
23	องค์การบริหารส่วนตำบลแม่ไม้คู่	นักวิชาการสิ่งแวดล้อมปฏิบัติการ
24	องค์การบริหารส่วนตำบลนิคมพัฒนา	นักวิชาการสุภาพบาล
25	องค์การบริหารส่วนตำบลหนองละพาน	เจ้าหน้าที่ธุรการ
26	องค์การบริหารส่วนตำบลบางบุตร	เจ้าหน้าที่ธุรการ
27	ที่ทำการอำเภอสวามเตร	เจ้าหน้าที่ธุรการ
รวมทั้งสิ้น		27 แห่ง

ที่มา : รวบรวมโดยบริษัท เอนเตอร์ไพรส์ กรุ๊ป (ประเทศไทย) จำกัด, 2568



รูปที่ 4 บรรยายผลการสำรวจความคิดเห็นผู้นำชุมชนในรัศมี 5 กิโลเมตร

### 1) ข้อมูลทั่วไป

ผู้ให้สัมภาษณ์ส่วนใหญ่เป็นเพศหญิง ร้อยละ 63.0 รองลงมาเป็นเพศชาย ร้อยละ 37.0 โดยมีอายุอยู่ระหว่าง 31-40 ปี ร้อยละ 40.8 รองลงมาอายุระหว่าง 41-50 ปี ร้อยละ 37.0 เมื่อสอบถามถึงด้านการศึกษาพบว่า ผู้ให้สัมภาษณ์มีระดับการศึกษาอยู่ในระดับปริญญาตรี ร้อยละ 55.6 รองลงมาในระดับการศึกษาอยู่ในระดับสูงกว่าปริญญาตรี ร้อยละ 40.7 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ดำรงตำแหน่งเป็นเจ้าหน้าที่ธุรการ ผู้ช่วยนักวิชาการสาธารณสุข และผู้อำนวยการโรงเรียน ร้อยละ 11.1 สัดส่วนที่เท่ากัน รองลงมาดำรงตำแหน่งเป็นครู ร้อยละ 7.5 สัดส่วนที่เท่ากัน โดยผู้ให้สัมภาษณ์ส่วนใหญ่มีระยะเวลาในการดำรงตำแหน่งระหว่าง 1-5 ปี ร้อยละ 55.6 รองลงมาดำรงตำแหน่งระหว่าง 11 - 15 ปี ร้อยละ 22.2 เมื่อสอบถามถึงจำนวนบุคลากรในหน่วยงานพบว่า ผู้ให้สัมภาษณ์มีบุคลากรในหน่วยงานระหว่าง 10-20 คน ร้อยละ 33.4 รองลงมาไม่มีบุคลากรในหน่วยงานมากกว่า 50 คนขึ้นไป ร้อยละ 25.9

เมื่อสอบถามถึงภูมิฐานะของผู้ให้สัมภาษณ์เกือบทั้งหมดระบุว่ามาจากที่อื่น ร้อยละ 59.3 และอยู่ที่นี้ตั้งแต่เกิด ร้อยละ 40.7 โดยส่วนใหญ่ย้ายมาจากจังหวัดในภาคกลาง ร้อยละ 31.3 โดยส่วนใหญ่มีระยะเวลาอาศัยอยู่ในพื้นที่ระหว่าง 1-5 ปี ร้อยละ 75.0

### 2) สภาพแวดล้อมในปัจจุบัน

ผลจากการสัมภาษณ์ถึงสภาพสิ่งแวดล้อมในปัจจุบันพบว่า ผู้ให้สัมภาษณ์ระบุว่าในระยะ 1 ปีที่ผ่านมาสภาพสิ่งแวดล้อมในชุมชนที่อาศัยอยู่มีการเปลี่ยนแปลงไปจากเดิม ร้อยละ 55.6 รองลงมาสภาพสิ่งแวดล้อมมีการเปลี่ยนแปลงไปจากเดิมเล็กน้อย ร้อยละ 25.9 สภาพสิ่งแวดล้อมมีการเปลี่ยนแปลงไปจากเดิมมาก ร้อยละ 11.1 และสภาพสิ่งแวดล้อมมีการเปลี่ยนแปลงไปจากเดิมปานกลาง ร้อยละ 7.4 ส่วนผู้ที่ระบุว่าชุมชนมีการเปลี่ยนแปลงโดยส่วนใหญ่พบว่า การขยายตัวภาคอุตสาหกรรม การจราจรมากขึ้น ร้อยละ 25.1 สัดส่วนที่เท่ากัน รองลงมาการก่อสร้างมากขึ้น การขยายตัวของชุมชน ความเจริญทางด้านเศรษฐกิจ มีประชากรเพิ่มขึ้น มีประชากรแออัด และสภาพอากาศที่แปรปรวน ร้อยละ 8.3 สัดส่วนที่เท่ากัน

### ผลกระทบด้านสิ่งแวดล้อม

สำหรับปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมในชุมชนที่ได้รับในปัจจุบัน ดังแสดงในตารางที่ 5 โดยสามารถสรุปปัญหาได้ 3 อันดับแรก ดังนี้

#### อันดับ 1 ฝุ่นละออง

พบว่า เป็นปัญหาที่ได้รับมากที่สุด ร้อยละ 51.9 ซึ่งมีระดับของผลกระทบที่ได้รับทั้งหมดอยู่ในระดับปานกลาง โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร ร้อยละ 43.3

#### อันดับ 2 ครว/เขม่า

พบว่า เป็นปัญหาที่ได้รับรองลงมา ร้อยละ 48.1 ซึ่งมีระดับของผลกระทบที่ได้รับส่วนใหญ่อยู่ในระดับปานกลาง ร้อยละ 76.9 โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร และโรงงาน ร้อยละ 37.0 สัดส่วนที่เท่ากัน

#### อันดับ 3 เสียงดัง และน้ำท่วมขัง

พบว่า เป็นปัญหาที่ได้รับ ร้อยละ 44.4 สัดส่วนที่เท่ากัน ซึ่งเสียงดัง มีระดับของผลกระทบที่ได้รับทั้งหมดอยู่ในระดับปานกลาง โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร ร้อยละ 55.5 และน้ำท่วมขัง มีระดับของผลกระทบที่ได้รับส่วนใหญ่อยู่ในระดับปานกลาง ร้อยละ 58.3 โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากระบบการระบายน้ำ ร้อยละ 36.4

ตารางที่ 5 ความคิดเห็นของหน่วยงานราชการต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับในปัจจุบัน

ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
1. ฝุ่นละออง*	48.1	51.9	0.8	100.0	0.0	- การจราจร (43.3%) - โรงงาน (30.0%) - คนในชุมชน (16.7%) - ปริมาณน้ำฝน (6.7%) - ระบบการระบายน้ำ (3.3%)
2. ครว/เขม่า**	51.9	48.1	23.1	76.9	0.0	- โรงงาน (37.0%) - การจราจร (37.0%) - คนในชุมชน (26.0%)
3. กลิ่นเหม็น	74.1	25.9	0.0	100.0	0.0	- โรงงาน (42.9%) - คนในชุมชน (35.7%) - การจราจร (21.4%)
4. เสียงดัง***	55.6	44.4	0.0	100.0	0.0	- การจราจร (55.5%) - โรงงาน (27.8%) - คนในชุมชน (16.7%)
5. ขยะมูลฝอยตกค้าง	74.1	25.9	28.6	71.4	0.0	- คนในชุมชน (77.8%) - โรงงาน (11.1%) - การจราจร (11.1%)
6. น้ำเสีย	74.1	25.9	42.9	57.1	0.0	- คนในชุมชน (46.1%) - ปริมาณน้ำฝน (23.1%) - ระบบการระบายน้ำ (15.4%) - โรงงาน (15.4%)

ตารางที่ 5 ความคิดเห็นของหน่วยงานราชการต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับ  
ในปัจจุบัน

ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
7. น้ำท่วมขัง***	55.6	44.4	41.7	58.3	0.0	- ระบบการระบายน้ำ (36.4%) - ปริมาณน้ำฝน (27.3%) - คนในชุมชน (22.7%) - การจราจร (9.1%) - โรงงาน (4.5%)
8. เสียงรบกวน	85.2	14.8	250	75.0	0.0	- คนในชุมชน (42.8%) - โรงงาน (28.6%) - การจราจร (14.3%) - ปริมาณน้ำฝน (14.3%)
9. ถนนชำรุด/การคมนาคม ไม่สะดวก	59.3	40.7	0.0	81.8	18.2	- การจราจร (55.0%) - โรงงาน (20.0%) - คนในชุมชน (10.0%) - ปริมาณน้ำฝน (10.0%) - ระบบการระบายน้ำ (5.0%)
10. การจราจร/อุบัติเหตุ*	48.1	51.9	143	71.4	14.3	- การจราจร (68.4%) - โรงงาน (15.8%) - คนในชุมชน (10.5%) - ปริมาณน้ำฝน (5.3%)
11. การขาดแคลนน้ำใช้	92.6	7.4	0.0	100.0	0.0	- คนในชุมชน (50.0%) - โรงงาน (25.0%) - ปริมาณน้ำฝน (25.0%)
12. การรั่วไหลของสารเคมี/ ก๊าซธรรมชาติ	85.2	14.8	250	75.0	0.0	- โรงงาน (100.0%)
13. การเกิดเพลิงไหม้/การ ระเบิด	77.8	22.2	333	66.7	0.0	- โรงงาน (85.7%) - คนในชุมชน (14.3%)

ที่มา : รวบรวมโดยบริษัท เอนเนอร์ยี่ แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด, 2568

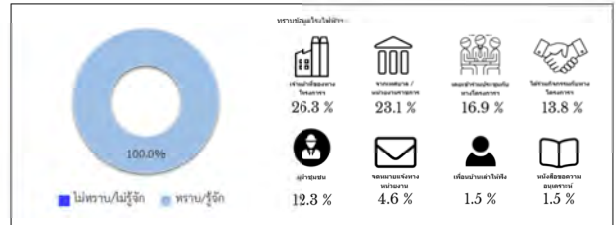
หมายเหตุ : \* , \*\* หมายถึง ลำดับความคิดเห็นของผู้ให้สัมภาษณ์ใน 3 ลำดับแรก

3) การรับรู้ข้อมูลข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ

ความคิดเห็นเกี่ยวกับโรงไฟฟ้าหนองละลอก 2 ของบริษัท กิตติ เอนเนอร์ยี่ จำกัด พบว่า ผู้ให้สัมภาษณ์ทั้งหมดทราบ/รู้จักโรงไฟฟ้า ส่วนผู้ให้สัมภาษณ์ที่ระบุว่าเป็นหน่วยงานราชการ 3 อันดับแรก ทราบจากเจ้าหน้าที่ของทางโครงการ ร้อยละ 26.3 รองลงมาทราบจากเทศบาล/อบต./หน่วยงานราชการต่างๆ ร้อยละ 23.1 และทราบจากเคยเข้าร่วมประชุมกับทางโครงการ ร้อยละ 16.9 โดยมีรายละเอียดดังรูปที่ 5

จัดทำโดย บริษัท เอนเนอร์ยี่ แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด

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รูปที่ 5 ความคิดเห็นของหน่วยงานราชการ  
ที่มีต่อการรับทราบข้อมูลของโรงไฟฟ้า

สำหรับข้อมูลการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการรับทราบข้อมูล/ข่าวสารเกี่ยวกับโรงไฟฟ้า ร้อยละ 81.5 ที่มีข้อมูลให้ผู้ให้สัมภาษณ์ต้องการให้มีการประชาสัมพันธ์เพิ่มเติม โดย ต้องการทราบข้อมูลเกี่ยวกับการมีส่วนร่วมของบริษัทฯ กับชุมชน ร้อยละ 20.6 รองลงมาต้องการทราบมาตรการป้องกัน และลดผลกระทบ ร้อยละ 18.1 และผลกระทบด้านสิ่งแวดล้อม ร้อยละ 15.7 ตามลำดับ สำหรับผู้ให้สัมภาษณ์ที่ไม่ต้องการรับทราบข้อมูล/ข่าวสารเกี่ยวกับโรงไฟฟ้า ร้อยละ 18.5 โดยมีรายละเอียดดังรูปที่ 6



รูปที่ 6 ความคิดเห็นของหน่วยงานราชการ  
ที่มีต่อการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า

จัดทำโดย บริษัท เอนเนอร์ยี่ แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด

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สำหรับกิจกรรมที่โรงไฟฟ้าจัดขึ้น พบว่าผู้ให้สัมภาษณ์ส่วนใหญ่สามารถระบุกิจกรรมที่โรงไฟฟ้าจัดขึ้นได้ ร้อยละ 55.6 รองลงมาไม่สามารถระบุกิจกรรมที่โรงไฟฟ้าจัดขึ้นได้ ร้อยละ 44.4 เมื่อสอบถามถึงการเข้าร่วมกิจกรรมกับทางโรงไฟฟ้า ผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าไม่เคยเข้าร่วมกิจกรรมกับโรงไฟฟ้า ร้อยละ 70.4 รองลงมาเคยเข้าร่วม ร้อยละ 29.6 โดยผู้ให้สัมภาษณ์ที่ระบุว่าเป็นเคยเข้าร่วมกิจกรรม เนื่องจาก กิจกรรมป่าสนใจ โรงไฟฟ้าเชิญเข้าร่วม และได้เชิญเข้าร่วม โดยมีรายละเอียดดังรูปที่ 7



รูปที่ 7 ความคิดเห็นของหน่วยงานราชการ  
ที่มีต่อการเข้าร่วมกิจกรรมกับของโรงไฟฟ้า

เมื่อสอบถามถึงการรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น ซึ่งมีรายละเอียดตารางที่ 6 โดยสามารถสรุปได้ดังนี้

- กองทุนพัฒนาชุมชนในพื้นที่รอบโรงไฟฟ้า (คพรฟ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2) พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 88.9 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 11.1 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 96.3 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 3.7
- การจัดตั้งคณะกรรมการตรวจสอบผลกระทบสิ่งแวดล้อมโรงไฟฟ้าหนองละลอก และการจัดการประชุมคณะกรรมการ ทุกๆ 3 เดือน พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 74.1 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 25.9 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 96.3 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 3.7

จัดทำโดย บริษัท เอนเนอร์ยี่ แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด

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- สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเทศกาลอาหาร อาเภอบ้านค่าย เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 63.0 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 37.0 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 96.3 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 3.7

- สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเสาชานตำนานเมืองระยอง เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 66.7 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 33.3 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 96.3 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 3.7

- สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 63.0 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 37.0 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

- การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬาและการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อาเภอบ้านค่าย การแข่งขันกีฬาด้วยอาสาสมัครคดับสนนอละลอก การสนับสนุนงบประมาณงานกีฬาสสม. ส่งเสริมการท่องเที่ยวทุ่งเปตอง ณ บางบุตร เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 63.0 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 37.0 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 96.3 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 3.7

- โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์ พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 63.0 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 37.0 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

- กิจกรรมการเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 59.3 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 40.7 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

จัดทำโดย บริษัท เอนเนอร์ยี่ แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด

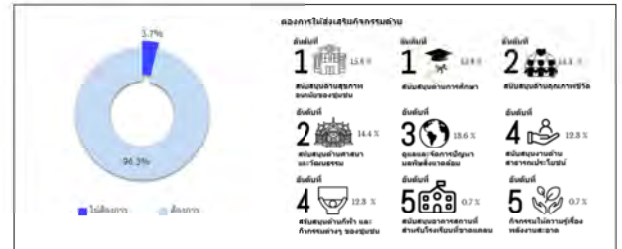
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ตารางที่ 6 ความเห็นของหน่วยงานราชการต่อการรู้จักกิจกรรมที่โรงพยาบาล จัดขึ้น

กิจกรรมที่โรงพยาบาล จัดขึ้น	การรู้จัก		ความต้องการให้ดำเนินการต่อเนื่อง	
	ไม่รู้จัก	รู้จัก	ไม่ต้องการ	ต้องการ
1. กองทุนพัฒนาชุมชนในพื้นที่รอบโรงพยาบาล (ศรพร)(กองทุนพัฒนาไฟฟ้าจังหวัดขอนแก่น 2)	11.1	88.9	3.7	96.3
2. การจัดตั้งคณะกรรมการตรวจสอบและประเมินผลโครงการ/กิจกรรมของโรงพยาบาล และการจัดการประชุมคณะกรรมการฯ ทุกๆ 3 เดือน	25.9	74.1	3.7	96.3
3. สนับสนุนการดำเนินกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเหล่ากาชาด อำเภอบ้านค่าย เป็นต้น	37.0	63.0	3.7	96.3
4. สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณี วันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมผ้าไหมด้านเมืองระยอง เป็นต้น	33.3	66.7	3.7	96.3
5. สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดการความรู้เกี่ยวกับโรงพยาบาล ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่โรงพยาบาล เป็นต้น	37.0	63.0	0.0	100.0
6. การให้สนับสนุนอื่นๆ (การสาธารณูปโภค และการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาด้านสุขภาพ สืบค้นข้อมูลของโครงการ สนับสนุนงบประมาณงานกีฬาสถ. ส่งเสริมการท่องเที่ยว ห่วงโซ่เศรษฐกิจชุมชน เป็นต้น	37.0	63.0	3.7	96.3
7. โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์	37.0	63.0	0.0	100.0
8. กิจกรรมการเข้าเยี่ยมชมนและตรวจติดตามการดำเนินงานของโรงพยาบาล	40.7	59.3	0.0	100.0

ที่มา : รวบรวมโดยบริษัท เนชั่นคอมเพล็กซ์ กรุ๊ป (ประเทศไทย) จำกัด, 2568  
หมายเหตุ : \*\*, หมายถึง ลำดับความถี่ของข้อมูลให้สัมภาษณ์ใน 3 ลำดับแรก

ผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่า หากทางโรงพยาบาล จัดกิจกรรมร่วมกับชุมชนอื่นที่เข้าร่วมกิจกรรมร้อยละ 88.9 รองลงมาไม่สนใจเข้าร่วมกิจกรรม ร้อยละ 11.1 สำหรับความต้องการของชุมชนในการให้โรงพยาบาล สนับสนุน/ส่งเสริมกิจกรรม พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ทางโรงพยาบาล ส่งเสริมกิจกรรม ร้อยละ 96.3 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่โดย 3 อันดับแรก ต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา พัฒนาโรงเรียน มอบอุปกรณ์การศึกษา และสนับสนุนด้านสุขภาพอนามัยของชุมชน เช่น รพ.สต. ศูนย์สุขภาพชุมชน ร้อยละ 15.8 สัดส่วนที่เท่ากัน รองลงมาต้องการให้สนับสนุนด้านศาสนา และวัฒนธรรม เช่น ทำบุญทำกุศล การทอดผ้าป่า ร่วมกิจกรรมตามประเพณี และสนับสนุนด้านคุณภาพชีวิต เช่น สนับสนุนอาชีพชุมชน รับแรงงานท้องถิ่น ร้อยละ 14.4 สัดส่วนที่เท่ากัน และต้องการให้ดูแลและจัดการปัญหาของพื้นที่สิ่งแวดล้อม เช่น จัดการเรื่องกลิ่นเหม็น ผุนละออง ขยะ น้ำเสีย ร้อยละ 13.6 ตามลำดับ ส่วนผู้ที่ไม่ต้องการให้ทางโรงพยาบาล ส่งเสริมกิจกรรม ร้อยละ 3.7 โดยมีรายละเอียดดังรูปที่ 8



รูปที่ 8 ความคิดเห็นของหน่วยงานราชการที่มีต่อการต้องการของชุมชนในการให้โครงการสนับสนุน/ส่งเสริมกิจกรรม

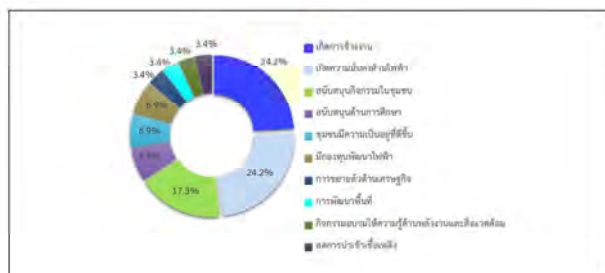
4) ผลกระทบและทัศนคติต่อการดำเนินงานของโรงพยาบาล

4.1) ผลดีและผลเสียที่ได้รับจากการดำเนินการของโรงพยาบาล สามารถสรุปได้ดังนี้

ผลดีที่ได้รับจากการดำเนินการของโรงพยาบาล ผู้ให้สัมภาษณ์ได้รับผลดี จำนวน 27 ราย ซึ่งมีรายละเอียดดังรูปที่ 9 โดยสามารถสรุปผลได้ดังนี้

- เกิดการจ้างงาน ร้อยละ 24.2
- เกิดความมั่นคงด้านไฟฟ้า ร้อยละ 24.2
- สนับสนุนกิจกรรมในชุมชน ร้อยละ 17.3
- สนับสนุนด้านการศึกษา ร้อยละ 6.9
- ชุมชนมีความเป็นอยู่ที่ดีขึ้น ร้อยละ 6.9

- มีกองทุนพัฒนาไฟฟ้า ร้อยละ 6.9
- การขยายตัวด้านเศรษฐกิจ ร้อยละ 3.4
- การพัฒนาพื้นที่ ร้อยละ 3.4
- กิจกรรมอบรมให้ความรู้ด้านพลังงานและสิ่งแวดล้อม ร้อยละ 3.4
- ลดการนำเข้าเชื้อเพลิง ร้อยละ 3.4



รูปที่ 9 ความคิดเห็นของหน่วยงานราชการที่มีต่อผลดีที่ได้รับจากการดำเนินการของโรงพยาบาล

ผลดีที่ได้รับจากการดำเนินการของโรงพยาบาล ผู้ให้สัมภาษณ์ทั้งหมดไม่ได้รับผลเสียแต่อย่างใด

4.2) ความพึงพอใจต่อการดูแลสังคมที่ผ่านมา เพื่อนำไปจัดทำดัชนีความพึงพอใจของชุมชน (Community Satisfaction Index) ซึ่งมีรายละเอียดดังตารางที่ 7 โดยสามารถสรุปได้ดังนี้

- ด้านความปลอดภัยในการบริหารการผลิต พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 48.2 รองลงมามีความพึงพอใจในระดับมาก ร้อยละ 33.3 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 18.5 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.70)
- ด้านสังคม พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก และในระดับปานกลาง ร้อยละ 40.7 สัดส่วนที่เท่ากัน รองลงมาความพึงพอใจในระดับมากที่สุด ร้อยละ 18.6 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.78)

- ด้านสิ่งแวดล้อม พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับมาก ร้อยละ 44.5 รองลงมาความพึงพอใจในระดับปานกลาง ร้อยละ 37.0 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 18.5 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.81)
- ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับมาก ร้อยละ 40.8 รองลงมาความพึงพอใจในระดับปานกลาง ร้อยละ 37.0 และมีความพึงพอใจในระดับปานกลาง ร้อยละ 22.2 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.85)
- ด้านการดูแลสุขภาพของประชาชน พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับปานกลาง ร้อยละ 40.8 รองลงมาความพึงพอใจในระดับมาก ร้อยละ 37.0 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 22.2 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.81)
- การเปิดเผยข้อมูล พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับปานกลาง ร้อยละ 40.8 รองลงมาความพึงพอใจในระดับมาก ร้อยละ 33.3 มีความพึงพอใจในระดับมากที่สุด ร้อยละ 22.2 และมีความพึงพอใจในระดับน้อย ร้อยละ 3.7 ค่าเฉลี่ยของความพึงพอใจในระดับมาก (X = 3.74)

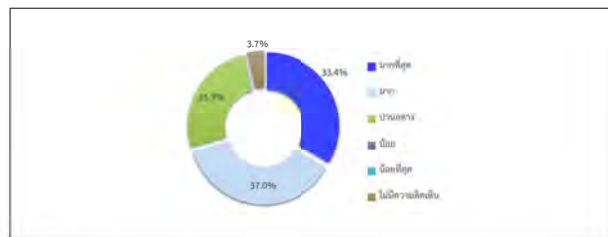
ตารางที่ 7 ความเห็นของหน่วยงานราชการต่อความพึงพอใจต่อการดูแลสังคมของโรงพยาบาล

การดูแลสังคม	ระดับความพึงพอใจ (ร้อยละ)					ค่าเฉลี่ย X	แปลผล <sup>1)</sup>
	น้อยที่สุด	น้อย	ปานกลาง	มาก	มากที่สุด		
1. ด้านความปลอดภัยในการบริหารการผลิต	0.0	0.0	48.2	33.3	18.5	3.70	มาก
2. ด้านสังคม	0.0	0.0	40.7	40.7	18.6	3.78	มาก
3. ด้านสิ่งแวดล้อม	0.0	0.0	37.0	44.5	18.5	3.81	มาก
4. ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม	0.0	0.0	37.0	40.8	22.2	3.85	มาก
5. ด้านการดูแลสุขภาพของประชาชน	0.0	0.0	40.8	37.0	22.2	3.81	มาก
6. การเปิดเผยข้อมูล	0.0	3.7	40.8	33.3	22.2	3.74	มาก

หมายเหตุ :<sup>1)</sup> การแปลผลค่าเฉลี่ย  
1.00 - 1.50 = น้อยที่สุด  
1.51 - 2.50 = น้อย  
2.51 - 3.50 = ปานกลาง  
3.51 - 4.50 = มาก  
4.51 - 5.00 = มากที่สุด

ที่มา : รวบรวมโดยบริษัท เนชั่นคอมเพล็กซ์ กรุ๊ป (ประเทศไทย) จำกัด, 2568

สำหรับความคิดเห็นในภาพรวมต่อความพึงพอใจของโครงการ พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่มีความพึงพอใจในระดับมาก ร้อยละ 37.0 รองลงมาคือมีความพึงพอใจในระดับมากที่สุด ร้อยละ 33.4 มีความพึงพอใจในระดับปานกลาง ร้อยละ 25.9 และไม่มีความคิดเห็น ร้อยละ 3.7 ซึ่งมีรายละเอียดดังรูปที่ 10



รูปที่ 10 ความคิดเห็นของหน่วยงานราชการที่มีต่อการรวมความพึงพอใจของโรงเรียนไฟฟ้า

#### 5) ความเชื่อมั่น และความคิดเห็นต่อโครงการ

ในด้านความเชื่อมั่นต่อการบริหารจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆของโรงเรียน พบว่าผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าเชื่อมั่นพอสมควร (หากมีอุปสรรคสามารถแก้ไขหรือควบคุมได้) ร้อยละ 59.3 รองลงมาเชื่อมั่นสูง ร้อยละ 40.7 โดยมีรายละเอียดดังรูปที่ 11



รูปที่ 11 ความคิดเห็นของหน่วยงานราชการที่มีต่อความเชื่อมั่นต่อการบริหารจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆ

ความคิดเห็นในภาพรวมต่อการดำเนินงานของโรงเรียนไฟฟ้า ในปี พ.ศ. 2568 พบว่าผู้ให้สัมภาษณ์ร้อยละ 74.1 ระบุว่าผลประโยชน์มากกว่าผลเสีย รองลงมาคือไม่แสดงความคิดเห็น ร้อยละ 25.9 โดยมีรายละเอียดดังรูปที่ 12



รูปที่ 12 ความคิดเห็นของหน่วยงานราชการที่มีต่อการรวมในการดำเนินงานของโรงเรียนไฟฟ้า

สำหรับข้อเสนอแนะอื่นๆ ที่เกี่ยวกับโครงการ สามารถสรุปเป็นประเด็นสำคัญได้ดังนี้

- ดูแลด้านมาตรการต่าง ๆ ให้ดีและรัดกุม ร้อยละ 33.3
- สนับสนุนทุนการศึกษาของนักเรียนผลการเรียนดีของโรงเรียนบ้านค่าย ร้อยละ 33.3
- ยกย่องให้รักษาชื่อเสียงมาตรฐานด้านสิ่งแวดล้อม ร้อยละ 33.3

#### 5.2 ผลการสำรวจความคิดเห็นของกลุ่มผู้นำชุมชน

โครงการได้ทำการสัมภาษณ์ตัวแทนผู้นำชุมชนในพื้นที่ที่มี 5 กิโลเมตรรอบที่ตั้งโครงการ ซึ่งแบ่งตามเขตการปกครองขององค์การบริหารส่วนตำบล และเทศบาล ครอบคลุมพื้นที่ศึกษา 17 ชุมชน โดยได้สำรวจความคิดเห็นของกลุ่มผู้นำชุมชน ทั้งหมดจำนวน 17 ตัวอย่าง (แสดงรายละเอียดของกลุ่มตัวอย่าง ตารางที่ 8) และผลการสำรวจความคิดเห็น แสดงดังเอกสารแนบ 2 และสามารถสรุปรายละเอียดของผลการศึกษาได้ดังนี้

ตารางที่ 8 แสดงจำนวนตัวอย่างของกลุ่มผู้นำชุมชน

ลำดับ	ชุมชน/หมู่บ้าน	ตำแหน่ง	จำนวน
1	หมู่ที่ 1 บ้านคลองน้ำเย็น	ผู้ใหญ่บ้าน	1
2	หมู่ที่ 3 บ้านหนองละลอก	ผู้ใหญ่บ้าน	1
3	หมู่ที่ 4 บ้านตรอกสัตว์	กำนัน	1
4	หมู่ที่ 9 บ้านค้อ	ผู้ใหญ่บ้าน	1
5	หมู่ที่ 10 บ้านมาบตาบด	ผู้ใหญ่บ้าน	1
6	หมู่ที่ 11 บ้านเขาไกร	ผู้ใหญ่บ้าน	1
7	หมู่ที่ 2 บ้านกระโสม	ผู้ใหญ่บ้าน	1
8	หมู่ที่ 5 บ้านต้นมะพร้าว	ผู้ใหญ่บ้าน	1
9	หมู่ที่ 6 บ้านหนองน้ำเย็น	ผู้ใหญ่บ้าน	1
10	หมู่ที่ 7 บ้านค้อ	ผู้ใหญ่บ้าน	1
11	หมู่ที่ 8 บ้านค้อ	ผู้ใหญ่บ้าน	1
12	หมู่ที่ 2 บ้านมาบตาบด	ผู้ใหญ่บ้าน	1
13	หมู่ที่ 6 บ้านค้อ	กรรมการชุมชน	1
14	หมู่ที่ 1 บ้านค้อ	ผู้ใหญ่บ้าน	1
15	หมู่ที่ 6 บ้านค้อ	ผู้ใหญ่บ้าน	1
16	หมู่ที่ 1 บ้านค้อ	ผู้ใหญ่บ้าน	1
17	ชุมชนสายพัฒนา (หมู่ 5 บ้านมาบตาบด)	กรรมการชุมชน	1

ที่มา : รวบรวมโดยบริษัท เ็นแอนด์ 2 จำกัด (ประเทศไทย) จำกัด, 2568

#### 1) ข้อมูลทั่วไป

ผู้นำชุมชนส่วนใหญ่เป็นเพศหญิง ร้อยละ 52.9 และเป็นเพศชาย ร้อยละ 47.1 ซึ่งผู้นำชุมชนส่วนใหญ่มีอายุอยู่ระหว่าง 51-60 ปี ร้อยละ 64.8 รองลงมาคือมีอายุอยู่ระหว่าง 31-40 ปี และระหว่าง 41-50 ปี ร้อยละ 17.6 สัดส่วนที่เท่ากัน สำหรับการนับถือศาสนาผู้นำชุมชนทั้งหมดนับถือศาสนาพุทธ ด้านการศึกษาพบว่าผู้นำชุมชนมีระดับการศึกษาอยู่ในระดับมัธยมศึกษาตอนปลาย (ม.6)/ปวช. หรือเทียบเท่า ร้อยละ 29.5 รองลงมาคือมีการศึกษาในระดับมัธยมศึกษาตอนต้น (ม.3) ร้อยละ 23.5 ซึ่งผู้นำชุมชนส่วนใหญ่ดำรงตำแหน่งเป็นผู้นำชุมชน ร้อยละ 52.9 รองลงมาดำรงตำแหน่งเป็นผู้นำชุมชน ร้อยละ 29.4 โดยมีระยะเวลาดำรงตำแหน่งอยู่ระหว่าง 1-5 ปี และระหว่าง 6-10 ปี ร้อยละ 41.2 สัดส่วนที่เท่ากัน รองลงมาคือระยะเวลาการดำรงตำแหน่งอยู่ระหว่าง 11-15 ปี ร้อยละ 17.6 สำหรับภูมิปัญญาของผู้นำชุมชนทั้งหมดระบุว่า อยู่ในพื้นที่ยาวนานตั้งแต่

#### 2) ข้อความสภาพเศรษฐกิจ และสังคมของชุมชน

จากการสัมภาษณ์ผู้นำชุมชนเกี่ยวกับลักษณะทางสังคมของชุมชน พบว่าชุมชนมีจำนวนครัวเรือนในชุมชนส่วนใหญ่มากกว่า 600 ครัวเรือน ร้อยละ 70.6 รองลงมาจำนวนครัวเรือนในชุมชนระหว่าง 201-300 ครัวเรือน ร้อยละ 17.6 สำหรับจำนวนประชากรของชุมชนส่วนใหญ่มากกว่า 2,000 คน ร้อยละ 58.9 รองลงมาคือจำนวนประชากรของชุมชนอยู่ระหว่าง 500-1,000 คน และระหว่าง 1,500-2,000 คน ร้อยละ 17.6 สัดส่วนที่เท่ากัน สำหรับภูมิปัญญาของประชาชนที่อยู่ในชุมชน ผู้นำชุมชนส่วนใหญ่ระบุว่าประชาชนในชุมชนเป็นคนในท้องถิ่น ร้อยละ 70.6 รองลงมาคือมาจากที่อื่น ร้อยละ 29.4 โดยทั้งหมดย้ายมาจากภาคตะวันออกเฉียงเหนือ

จากการสัมภาษณ์ผู้นำชุมชนเกี่ยวกับลักษณะทางเศรษฐกิจของชุมชน พบว่า การประกอบอาชีพหลักของประชาชนในชุมชนประกอบอาชีพพนักงานบริษัท/ลูกจ้าง/พนักงานโรงงาน และเกษตรกรรม/เลี้ยงสัตว์ ร้อยละ 47.1 สัดส่วนที่เท่ากัน รองลงมาประกอบอาชีพค้าขาย/ธุรกิจส่วนตัว ร้อยละ 5.8 ทั้งนี้ผู้นำชุมชนทั้งหมดระบุว่าประชาชนในชุมชนประกอบอาชีพเสริม โดยส่วนใหญ่ประกอบอาชีพรับจ้างทั่วไป ร้อยละ 58.8 โดยผู้นำชุมชนทั้งหมดเห็นว่าคนในชุมชนมีฐานะทางเศรษฐกิจระดับปานกลาง

จากการสัมภาษณ์ผู้นำชุมชนเกี่ยวกับงานจ้างแรงงานในพื้นที่ พบว่า แรงงานภาคเกษตรกรรมส่วนใหญ่มีการจ้างงานในพื้นที่ ร้อยละ 64.7 รองลงมาคือไม่มีการจ้างงานในพื้นที่ ร้อยละ 35.3 โดยแรงงานส่วนใหญ่เป็นคนที่ในพื้นที่ ร้อยละ 90.9 รองลงมาเป็นคนนอกพื้นที่ ร้อยละ 9.1 สำหรับแรงงานภาคอุตสาหกรรมพบว่า ผู้นำชุมชนส่วนใหญ่เห็นว่า มีการจ้างแรงงานในพื้นที่ ร้อยละ 94.1 รองลงมาคือไม่มีการจ้างแรงงานในพื้นที่ ร้อยละ 5.9 โดยแรงงานส่วนใหญ่เป็นคนที่ในพื้นที่ ร้อยละ 81.2 รองลงมาเป็นคนนอกพื้นที่ ร้อยละ 18.8

สำหรับสถานศึกษาในชุมชน พบว่า ผู้นำชุมชนส่วนใหญ่เห็นว่าสถานศึกษาในชุมชน ร้อยละ 58.8 รองลงมาคือไม่มีความรู้เกี่ยวกับสถานศึกษาในชุมชน ร้อยละ 41.2 ในส่วนที่มีสถานศึกษาในชุมชนส่วนใหญ่เห็นว่า มีจำนวนสถานศึกษาในชุมชน 1 แห่ง ร้อยละ 90.0 รองลงมาคือมีจำนวนสถานศึกษาในชุมชน 2 แห่ง ร้อยละ 10.0

ผู้นำชุมชนส่วนใหญ่ระบุว่าไม่มีวัดในชุมชน ร้อยละ 58.8 และไม่มีวัดในชุมชน ร้อยละ 41.2 ในส่วนที่มีวัดในชุมชนทั้งหมดเห็นว่า มีจำนวนวัดในชุมชน 1 แห่ง

จากการสัมภาษณ์ผู้นำชุมชนเกี่ยวกับสถานที่ประกอบกิจกรรมทางศาสนา พบว่า ผู้นำชุมชนทั้งหมดเห็นว่า ไม่มีสถานที่ประกอบกิจกรรม

### 3) ข้อมูลด้านสาธารณสุขและสาธารณสุขในชุมชน

**ข้อมูลด้านสุขภาพ และสาธารณสุข** พบว่า ทั้งหมดไม่มีโรคที่เคาะระบาดในชุมชน เมื่อสอบถามถึงโรงพยาบาลส่งเสริมสุขภาพ/ศูนย์บริการสาธารณสุขในชุมชน พบว่า ผู้ในชุมชนส่วนใหญ่ ระบุว่าไม่มีโรงพยาบาลส่งเสริมสุขภาพ/ศูนย์บริการสาธารณสุขในชุมชน ร้อยละ 64.7 รองลงมาไม่มีโรงพยาบาลส่งเสริมสุขภาพ/ศูนย์บริการสาธารณสุขในชุมชน ร้อยละ 35.3 โดยเมื่อเจ็บป่วยแล้วผู้ในชุมชนจะซื้อยาจากร้านขายยา ร้อยละ 70.6 รองลงมาโรงพยาบาลส่งเสริมสุขภาพตำบล ร้อยละ 29.4 โดยผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่า การให้บริการสาธารณสุขในพื้นที่ไม่มีปัญหาในการให้บริการ ร้อยละ 94.1 รองลงมามีปัญหาในการให้บริการ ร้อยละ 5.9 โดยมีปัญหาเนื่องจากขาดเครื่องมือแพทย์และแพทย์เฉพาะ

**แหล่งน้ำบริโภค (น้ำดื่ม) ในครัวเรือน** พบว่า ครัวเรือนทั้งหมดซื้อน้ำดื่มบรรจุขวด/ถังมาบริโภค

**แหล่งน้ำอุปโภค (น้ำสำหรับซักล้าง ทำไร่) ในครัวเรือน** พบว่า ครัวเรือนทั้งหมดใช้น้ำประปา

**แหล่งน้ำเพื่อการเกษตร** พบว่า ครัวเรือนส่วนใหญ่ใช้น้ำประปา ร้อยละ 47.8 รองลงมาใช้น้ำบ่อน้ำฝน และคลองชลประทาน ร้อยละ 17.4 สัดส่วนที่เท่ากัน

**การกำจัดน้ำเสีย/น้ำทิ้งของชุมชน** พบว่า ผู้นำชุมชนส่วนใหญ่ระบุว่า มีการกำจัดโดยระบายลงท่อระบายน้ำเทศบาล/อบต. ร้อยละ 94.4 รองลงมาระบายลงดิน/ที่โล่งข้างบ้าน ร้อยละ 5.6

**การกำจัดขยะมูลฝอยในครัวเรือน** พบว่า ผู้นำชุมชนทั้งหมดระบุว่า ครัวเรือนในชุมชนจะรวบรวมแล้วนำไปทิ้งถังขยะของเทศบาล/อบต.

### 4) สภาพแวดล้อมในปัจจุบัน

ผลจากการสัมภาษณ์ถึงสภาพสิ่งแวดล้อมในปัจจุบัน พบว่า ผู้นำชุมชนส่วนใหญ่ระบุว่า ในระยะ 1 ปีที่ผ่านมาสภาพสิ่งแวดล้อมในชุมชนที่อาศัยไม่มีการเปลี่ยนแปลงไปจากเดิม ร้อยละ 94.1 รองลงมา มีการเปลี่ยนแปลงไปจากเดิมเล็กน้อย ร้อยละ 5.9 โดยสภาพแวดล้อมในชุมชนที่เปลี่ยนแปลงเนื่องจาก ขุนเขาเจริญขึ้น ร้อยละ 100.0

### ผลกระทบด้านสิ่งแวดล้อม

สำหรับปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมในชุมชนที่ได้รับในปัจจุบัน **ดังแสดงในตารางที่ 9** โดยสามารถสรุปปัญหาได้ 3 อันดับแรก ดังนี้

■ **อันดับ 1 ฝุ่นละออง** พบว่า เป็นปัญหาที่ได้รับมากที่สุด ร้อยละ 100.0 ซึ่งมีระดับของผลกระทบส่วนใหญ่ที่ได้รับอยู่ในระดับปานกลาง ร้อยละ 88.2 โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร ร้อยละ 57.1

■ **อันดับ 2 เสียงดัง** พบว่า เป็นปัญหาที่ได้รับรองลงมา ร้อยละ 88.2 ซึ่งมีระดับของผลกระทบทั้งหมดที่ได้รับอยู่ในระดับปานกลาง โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร ร้อยละ 93.3

■ **อันดับ 3 การจราจร/อุบัติเหตุ** พบว่า เป็นปัญหาที่ได้รับ ร้อยละ 82.4 ซึ่งมีระดับของผลกระทบส่วนใหญ่ที่ได้รับอยู่ในระดับปานกลาง ร้อยละ 71.4 โดยสาเหตุของผลกระทบทั้งหมดระบุว่าเกิดจากการจราจร

**ตารางที่ 9 ความคิดเห็นของผู้นำชุมชนต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับในปัจจุบัน**

ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
1. ฝุ่นละออง*	0.0	100.0	11.8	88.2	0.0	- การจราจร (57.1%) - โรงงาน (30.3%) - คนในชุมชน (3.6%)
2. ครีน/เขม่า	88.2	11.8	50.0	50.0	0.0	- การจราจร (100.0%)
3. กลิ่นเหม็น	70.6	29.4	0.0	100.0	0.0	- โรงงาน (100.0%)
4. เสียงดัง**	11.8	88.2	0.0	100.0	0.0	- การจราจร (93.3%) - คนในชุมชน (6.7%)
5. ขยะมูลฝอยตกค้าง	82.4	17.6	0.0	100.0	0.0	- คนในชุมชน (100.0%)
6. น้ำเสีย	94.1	5.9	0.0	100.0	0.0	- โรงงาน (100.0%)
7. น้ำท่วมขัง	58.8	41.2	42.9	57.1	0.0	- ระบบการระบายน้ำ (66.7%) - ปริมาณน้ำฝน (33.3%)
8. ดินเสื่อมคุณภาพ	100.0	0.0	0.0	0.0	0.0	-
9. ถนนชำรุด/การคมนาคมไม่สะดวก	94.1	5.9	0.0	100.0	0.0	- การจราจร (100.0%)

**ตารางที่ 9 ความคิดเห็นของผู้นำชุมชนต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับในปัจจุบัน**

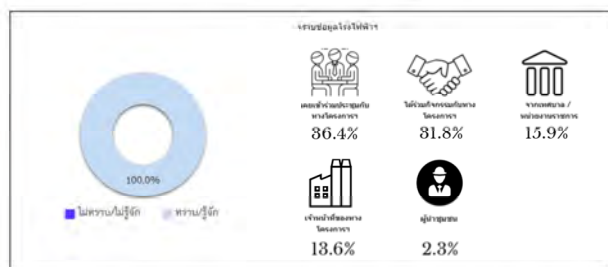
ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
10. การจราจร/อุบัติเหตุ***	17.6	82.4	28.6	71.4	0.0	- การจราจร (100.0%)
11. การขาดแคลนน้ำใช้	76.5	23.5	0.0	100.0	0.0	- หน้าแล้ง (100.0%)
12. การรั่วไหลของสารเคมี/ก๊าซธรรมชาติ	100.0	0.0	0.0	0.0	0.0	-
13. การเกิดเพลิงไหม้/การระเบิด	100.0	0.0	0.0	0.0	0.0	-

ที่มา : รวบรวมโดยบริษัท เอ็นแอล 2 จำกัด (ประเทศไทย) จำกัด, 2568

หมายเหตุ : \*, \*\* หมายถึง ลำดับความคิดเห็นของผู้ให้สัมภาษณ์ใน 3 ลำดับแรก

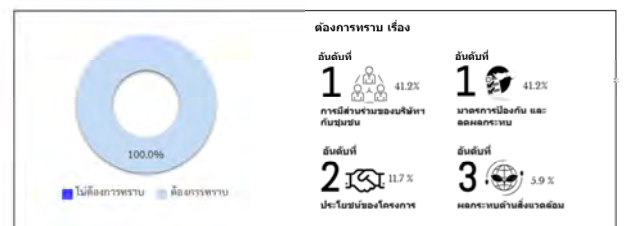
### 5) การรับรู้ข้อมูลข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ

ความคิดเห็นเกี่ยวกับโรงไฟฟ้าหนองคาย 2 ของบริษัท กิฟที เอ็นแอล 2 จำกัด พบว่า ผู้นำชุมชนทั้งหมดทราบ/รู้จักโรงไฟฟ้า ส่วนผู้นำชุมชนที่ระบุว่าทราบ/รู้จัก โดย 3 อันดับแรก ทราบจากเคยเข้าร่วมประชุมกับทางโครงการ ร้อยละ 36.4 รองลงมาทราบจากได้ร่วมกิจกรรมกับทางโครงการ ร้อยละ 31.8 และทราบจากเทศบาล/อบต./หน่วยงานราชการต่างๆ ร้อยละ 15.9 โดยมีรายละเอียดดังรูปที่ 13



รูปที่ 13 ความคิดเห็นของผู้นำชุมชนที่มีต่อการรับรู้ข้อมูลของโรงไฟฟ้า

สำหรับข้อมูลการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า พบว่า ผู้นำชุมชนทั้งหมดต้องการรับทราบข้อมูลข่าวสารเกี่ยวกับโรงไฟฟ้า ทั้งนี้ข้อมูลผู้นำชุมชนต้องการให้มีการประชาสัมพันธ์เพิ่มเติมโดย 3 อันดับแรก ต้องการทราบข้อมูลเกี่ยวกับมาตรการป้องกัน และลดผลกระทบ และการมีส่วนร่วมของบริษัทร่วมกับชุมชน ร้อยละ 41.2 สัดส่วนที่เท่ากัน รองลงมาต้องการทราบประโยชน์ของโครงการ ร้อยละ 11.7 และต้องการทราบผลกระทบด้านสิ่งแวดล้อม ร้อยละ 5.9 ตามลำดับ โดยมีรายละเอียดดังรูปที่ 14



รูปที่ 14 ความคิดเห็นของผู้นำชุมชนที่มีต่อการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า

สำหรับกิจกรรมที่โรงไฟฟ้าจัดขึ้น พบว่าผู้นำชุมชนทั้งหมดสามารถระบุกิจกรรมที่โรงไฟฟ้าจัดขึ้นได้ เมื่อสอบถามถึงการเข้าร่วมกิจกรรมกับทางโรงไฟฟ้า ผู้นำชุมชนทั้งหมดระบุว่าเคยเข้าร่วมกิจกรรมกับโรงไฟฟ้า โดยผู้นำชุมชนที่ระบุว่าเคยเข้าร่วมกิจกรรม เนื่องจาก เข้าประชุมและร่วมกิจกรรม และกิจกรรมดีต่อชุมชน โดยมีรายละเอียดดังรูปที่ 15



รูปที่ 15 ความคิดเห็นของผู้นำชุมชนที่มีต่อการเข้าร่วมกิจกรรมกับโรงไฟฟ้า

เมื่อสอบถามถึงการรู้จักกิจกรรมที่โรงพยาบาล จัดขึ้น ซึ่งมีรายละเอียดตารางที่ 10 โดยสามารถสรุปได้ดังนี้

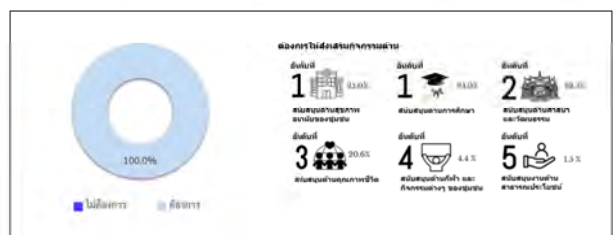
- กองทุนพัฒนาชุมชนในพื้นที่รอบโรงพยาบาล (คพรพ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2) พบว่า ผู้นำชุมชนทั้งหมดรู้จักกิจกรรม ซึ่งผู้นำชุมชนทั้งหมด ต้องการให้ดำเนินการต่อเนื่อง
- การจัดตั้งคณะกรรมการตรวจสอบผลกระทบสิ่งแวดล้อมโรงพยาบาลพัฒนาและโครงการจัดการประชุมคณะกรรมการ ทุกๆ 3 เดือน พบว่า ผู้นำชุมชนส่วนใหญ่รู้จักกิจกรรม ร้อยละ 88.2 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 11.8 ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเหล่ากาชาด อำเภอบ้านค่าย เป็นต้น พบว่า ผู้นำชุมชนทั้งหมดรู้จักกิจกรรม ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเสาชานด้านานเมืองระยอง เป็นต้น พบว่า ผู้นำชุมชนทั้งหมดรู้จักกิจกรรม ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดการกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น
- การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬาและการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาด้วยเสตดกีฬาด้านของลูก การสนับสนุนงบประมาณงานกีฬาสาน, ส่งเสริมการท่องเที่ยวทุ่งปอเทือง ณ บานบุตร เป็นต้น พบว่า ผู้นำชุมชนทั้งหมดรู้จักกิจกรรม ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์ พบว่า ผู้นำชุมชนส่วนใหญ่รู้จักกิจกรรม ร้อยละ 94.1 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 5.9 ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- กิจกรรมการเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า พบว่า ผู้นำชุมชนทั้งหมดรู้จักกิจกรรม ซึ่งผู้นำชุมชนทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

ตารางที่ 10 ความเห็นของผู้นำชุมชนต่อการรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น

กิจกรรมที่โรงไฟฟ้า จัดขึ้น	การรู้จัก		ความต้องการให้ดำเนินการต่อเนื่อง	
	ไม่รู้จัก	รู้จัก	ไม่ต้องการ	ต้องการ
1. กองทุนพัฒนาชุมชนในพื้นที่รอบโรงพยาบาล (คพรพ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2)	0.0	100.0	0.0	100.0
2. การจัดตั้งคณะกรรมการตรวจสอบผลกระทบสิ่งแวดล้อมโรงพยาบาลพัฒนาและโครงการจัดการประชุมคณะกรรมการ ทุกๆ 3 เดือน	11.8	88.2	0.0	100.0
3. สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเหล่ากาชาด อำเภอบ้านค่าย เป็นต้น	0.0	100.0	0.0	100.0
4. สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเสาชานด้านานเมืองระยอง เป็นต้น	0.0	100.0	0.0	100.0
5. สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดการกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น	0.0	100.0	0.0	100.0
6. การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬา และการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาด้วยเสตดกีฬาด้านของลูก การสนับสนุนงบประมาณงานกีฬาสาน, ส่งเสริมการท่องเที่ยวทุ่งปอเทือง ณ บานบุตร เป็นต้น	0.0	100.0	0.0	100.0
7. โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์	5.9	94.1	0.0	100.0
8. กิจกรรมการเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า	0.0	100.0	0.0	100.0

ที่มา : รายงานโดยบริษัท เ็นแอล 2 จำกัด (ประเทศไทย) จำกัด, 2568

ผู้นำชุมชนทั้งหมดระบุว่า หากทางโรงไฟฟ้า จัดกิจกรรมร่วมกับชุมชนยิ่งดีเข้าร่วมกิจกรรมสำหรับความต้องการของชุมชนในการให้โรงไฟฟ้าสนับสนุน/ส่งเสริมกิจกรรม พบว่า ผู้นำชุมชนทั้งหมดต้องการให้ทางโรงไฟฟ้า ส่งเสริมกิจกรรม ซึ่งผู้นำชุมชนส่วนใหญ่โดย 3 อันดับแรก ต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา ทุนโรงเรียน มอบอุปกรณ์การศึกษา และ สนับสนุนด้านสุขภาพอนามัยของชุมชน เช่น รพ.สต. ศูนย์สุขภาพชุมชน ร้อยละ 25.0 สักส่วนที่เท่ากัน รองลงมาต้องการให้สนับสนุนด้านศาสนา และวัฒนธรรม เช่น ทุนทำบุญศาสนา ทุนค่าทำบุญกิจกรรมตามประเพณี ร้อยละ 23.5 และต้องการให้สนับสนุนด้านคุณภาพชีวิต เช่น สนับสนุนอาชีพชุมชน รับแรงงานท้องถิ่น ร้อยละ 20.6 ตามลำดับ โดยมีรายละเอียดดังรูปที่ 16



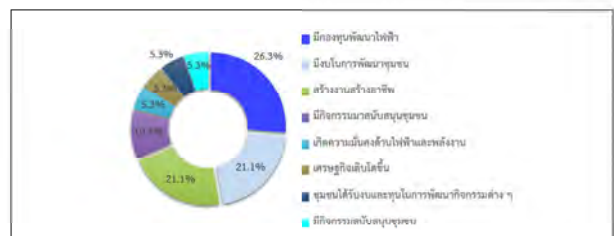
รูปที่ 16 ความคิดเห็นของผู้นำชุมชนที่มีต่อความต้องการของชุมชนในการให้โรงไฟฟ้าสนับสนุน/ส่งเสริมกิจกรรม

6) ผลกระทบและทัศนคติต่อการดำเนินงานของโรงไฟฟ้า

6.1) ผลดีและผลเสียที่ได้รับจากการดำเนินการของโรงไฟฟ้า สามารถสรุปได้ดังนี้

ผลดีที่ได้รับจากการดำเนินการของโรงไฟฟ้า ผู้นำชุมชนได้รับผลดี จำนวน 17 ราย ซึ่งมีรายละเอียดดังรูปที่ 17

- มีกองทุนพัฒนาไฟฟ้า ร้อยละ 26.2
- มีงบในการพัฒนาชุมชน ร้อยละ 21.1
- สร้างงานสร้างอาชีพ ร้อยละ 21.1
- มีกิจกรรมมาสนับสนุนชุมชน ร้อยละ 10.4
- เกิดความมั่นคงด้านไฟฟ้าและพลังงาน ร้อยละ 5.3
- เศรษฐกิจเติบโตขึ้น ร้อยละ 5.3
- ชุมชนได้รับงบและทุนในการพัฒนากิจกรรมต่าง ๆ ร้อยละ 5.3
- มีกิจกรรมสนับสนุนชุมชน ร้อยละ 5.3



รูปที่ 17 ความคิดเห็นของผู้นำชุมชนที่มีต่อผลดีที่ได้รับจากการดำเนินการของโรงไฟฟ้า

ผลเสียที่ได้รับจากการดำเนินการของโรงไฟฟ้า ผู้นำชุมชนทั้งหมดไม่ได้รับผลเสียแต่อย่างใด

6.2) ความพึงพอใจต่อการดูแลสิ่งแวดล้อมที่ผ่านมา เพื่อนำไปจัดทำดัชนีความพึงพอใจของชุมชน (Community Satisfaction Index) ซึ่งมีรายละเอียดดังตารางที่ 11 โดยสามารถสรุปได้ดังนี้

- ด้านความปลอดภัยในการบรรเทาผลกระทบ พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมามีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับ ปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก (x̄ = 4.18)
- ด้านสังคม พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมามีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก (x̄ = 4.18)
- ด้านสิ่งแวดล้อม พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมามีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก (x̄ = 4.18)
- ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมามีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก (x̄ = 4.18)

■ **ด้านการดูแลสุขภาพของประชาชน** พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมาคือมีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 4.18$ )

■ **การเปิดเผยข้อมูล** พบว่า ผู้นำชุมชนมีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.8 รองลงมาคือมีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 11.8 ค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 4.18$ )

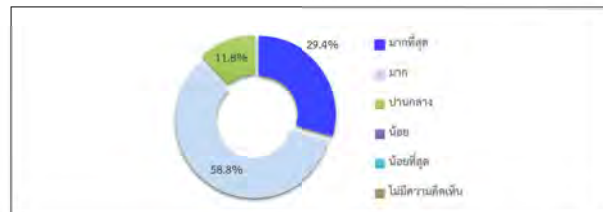
ตารางที่ 11 ความเห็นของผู้นำชุมชนต่อความพึงพอใจต่อการดูแลสังคมของโรงไฟฟ้า

การดูแลสังคม	ระดับความพึงพอใจ (ร้อยละ)					ค่าเฉลี่ย $\bar{x}$	แปลผล <sup>1/</sup>
	น้อยที่สุด	น้อย	ปานกลาง	มาก	มากที่สุด		
1. ด้านความปลอดภัยในกระบวนการผลิต	0.0	0.0	11.8	58.8	29.4	4.18	มาก
2. ด้านสังคม	0.0	0.0	11.8	58.8	29.4	4.18	มาก
3. ด้านสิ่งแวดล้อม	0.0	0.0	11.8	58.8	29.4	4.18	มาก
4. ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม	0.0	0.0	11.8	58.8	29.4	4.18	มาก
5. ด้านการดูแลสุขภาพของประชาชน	0.0	0.0	11.8	58.8	29.4	4.18	มาก
6. การเปิดเผยข้อมูล	0.0	0.0	11.8	58.8	29.4	4.18	มาก

หมายเหตุ : <sup>1/</sup> การแปลผลค่าเฉลี่ย  
1.00 - 1.50 = น้อยที่สุด  
1.51 - 2.50 = น้อย  
2.51 - 3.50 = ปานกลาง  
3.51 - 4.50 = มาก  
4.51 - 5.00 = มากที่สุด

ที่มา : รวบรวมโดยบริษัท เอ็นเอชแอล แลบริจอรี่ กรุ๊ป (ประเทศไทย) จำกัด, 2568

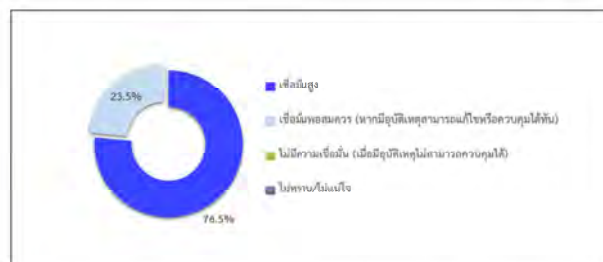
สำหรับความคิดเห็นในการรวมต่อความพึงพอใจของโครงการ พบว่า ผู้นำชุมชนมีความพึงพอใจในระดับมาก ร้อยละ 58.8 รองลงมาคือมีความพึงพอใจในระดับมากที่สุด ร้อยละ 29.4 และมีความพึงพอใจในระดับปานกลาง ร้อยละ 11.8 ซึ่งมีรายละเอียดดังรูปที่ 18



รูปที่ 18 ความเห็นของผู้นำชุมชนที่มีต่อภาพรวมต่อความพึงพอใจของโรงไฟฟ้า

#### 7) ความเชื่อมั่น และความคิดเห็นต่อโรงไฟฟ้า

ในด้านความเชื่อมั่นต่อระบบการจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆ ของโครงการ พบว่า ผู้นำชุมชนส่วนใหญ่ระบุว่า มีความเชื่อมั่นสูง ร้อยละ 76.5 รองลงมาจะระบุว่า เชื่อมั่นพอสมควร (หากมีอุปสรรคสามารถแก้ไขหรือควบคุมได้ทัน) ร้อยละ 23.5 โดยมีรายละเอียดดังรูปที่ 19



รูปที่ 19 ความคิดเห็นของผู้นำชุมชนที่มีต่อความเชื่อมั่นต่อระบบการจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆ

ความคิดเห็นในการรวมต่อการดำเนินงานของโครงการ ในปี พ.ศ. 2568 พบว่า ผู้นำชุมชนทั้งหมดระบุว่า ผลประโยชน์มากกว่าผลเสีย โดยมีรายละเอียดดังรูปที่ 20



รูปที่ 20 ความคิดเห็นของผู้นำชุมชนที่มีต่อภาพรวมในการดำเนินงานของโรงไฟฟ้า

สำหรับข้อเสนอแนะอื่นๆ ที่เกี่ยวกับโครงการ สามารถสรุปเป็นประเด็นสำคัญได้ดังนี้

- กิจกรรมที่ทำติดอยู่แล้วก็อยากให้ทำสม่ำเสมอต่อเนื่อง ร้อยละ 17.6
- ลงมาทำกิจกรรมกับทางชุมชนโดยตรงมากกว่าผ่านหน่วยงาน ร้อยละ 17.6
- อยากให้ส่งเสริมด้านการศึกษาศึกษา ในชุมชนมากขึ้น ร้อยละ 17.6
- อยากให้ CSR เข้ามาพบปะผู้นำชุมชนและทำกิจกรรมต่างๆ ในชุมชนต่อเนื่อง ร้อยละ 11.8
- สนับสนุนกิจกรรมทางศาสนาต่างๆ ร้อยละ 5.9
- สนับสนุนของช่วยเหลือผู้สูงอายุ ร้อยละ 5.9
- อยากให้ส่งเสริมด้านการฝึกอบรมทักษะอาชีพต่างๆ ให้กับคนในชุมชน ร้อยละ 5.9
- อยากให้ส่งเสริมด้านสาธารณสุขในชุมชนมากขึ้น ร้อยละ 5.9
- อยากให้สนับสนุนและอนุรักษ์ด้านธรรมชาติและสิ่งแวดล้อมในชุมชน ร้อยละ 5.9
- อยากให้สนับสนุนวิสาหกิจในชุมชน ร้อยละ 5.9

#### 5.3 ผลการสำรวจความคิดเห็นของกลุ่มครัวเรือน

การสำรวจความคิดเห็นของกลุ่มครัวเรือนในพื้นที่รัศมี 5 กิโลเมตรรอบที่ตั้งโครงการ ซึ่งแบ่งเป็น 2 เขตการปกครอง คือ เขตการปกครองของเทศบาล แบ่งเป็นกลุ่มครัวเรือนรัศมี 3-5 กิโลเมตร และเขตการปกครององค์การบริหารส่วนตำบล แบ่งเป็น 2 กลุ่ม คือกลุ่มครัวเรือนรัศมี 0-3 กิโลเมตร และกลุ่มครัวเรือนรัศมี 3-5 กิโลเมตร ครอบคลุมพื้นที่ศึกษา 17 ชุมชน โดยได้สำรวจความคิดเห็นครัวเรือนทั้งหมดจำนวน 511 ตัวอย่าง (แสดงรายละเอียดของกลุ่มตัวอย่างดังตารางที่ 3) ผลการสำรวจความคิดเห็น แสดงดังเอกสารแนบ 2 และสามารถสรุปรายละเอียดของผลการศึกษาดังนี้

##### 1) ข้อมูลทั่วไป

ผู้ให้สัมภาษณ์ส่วนใหญ่เป็นเพศหญิง ร้อยละ 54.6 และเป็นเพศชาย ร้อยละ 45.4 ซึ่งผู้ให้สัมภาษณ์ มีอายุระหว่าง 41-50 ปี ร้อยละ 37.5 รองลงมาคือมีอายุอยู่ระหว่าง 51-60 ปี ร้อยละ 33.1 การนับถือศาสนาพบว่าผู้ให้สัมภาษณ์ทั้งหมดนับถือศาสนาพุทธ ผู้ให้สัมภาษณ์ส่วนใหญ่สถานภาพแต่งงาน/อยู่ด้วยกัน ร้อยละ 82.7 รองลงมาสถานภาพโสด ร้อยละ 10.8 สำหรับด้านการศึกษาพบว่าผู้ให้สัมภาษณ์มีการศึกษาระดับมัธยมศึกษาตอนปลาย (ม.6)/ปวช. หรือเทียบเท่า ร้อยละ 24.7 รองลงมาคือมีการศึกษาระดับมัธยมศึกษาตอนต้น (ม.3) ร้อยละ 22.3 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่มีสถานภาพเป็นสมาชิกในครัวเรือน ร้อยละ 53.6 รองมาเป็นหัวหน้าครัวเรือน/ เจ้าของบ้าน ร้อยละ 46.4 โดยสมาชิกในครัวเรือนส่วนใหญ่เป็นผู้สมรส ร้อยละ 63.5 รองมาเป็นโสด ร้อยละ 25.9

เมื่อสัมภาษณ์ถึงภูมิสำเนาเดิม พบว่า ผู้ให้สัมภาษณ์อยู่ที่ตั้งตั้งแต่เกิด ร้อยละ 90.0 รองลงมาเป็นผู้ที่อาศัยย้ายมาจากที่อื่น ร้อยละ 10.0 ในส่วนที่ย้ายมาจากที่อื่นซึ่งส่วนใหญ่ย้ายจากภาคกลาง ร้อยละ 31.5 รองลงมา ย้ายมาจากภาคตะวันออกเฉียงเหนือ ร้อยละ 29.4 ซึ่งระยะเวลาของผู้ที่ย้ายมาจากถิ่นอื่นส่วนใหญ่อยู่ระหว่าง 16-20 ปี ร้อยละ 58.8 รองลงมาคือเข้ามาอยู่ในพื้นที่ระหว่าง 11-15 ปี ร้อยละ 29.4

เมื่อสัมภาษณ์ถึงการถือครองที่ดิน พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ถือครองที่ดินเป็นของตนเอง ร้อยละ 58.8 รองลงมาคือที่ดินโดยเช่าผู้อื่น ร้อยละ 41.2 สำหรับผู้มีที่ดินเป็นกรรมสิทธิ์ของตัวเองส่วนใหญ่มีพื้นที่เป็นของตนเองน้อยกว่า 1 ไร่ ร้อยละ 93.3 สำหรับผู้ถือครองที่ดินโดยการเช่าผู้อื่นทั้งหมดเช่าเพื่อเป็นที่พักอาศัย

##### 2) ข้อมูลด้านสภาพเศรษฐกิจของกลุ่มครัวเรือน

ผู้ให้สัมภาษณ์ส่วนใหญ่มีจำนวนสมาชิกในครัวเรือนระหว่าง 4-6 คน ร้อยละ 70.4 รองลงมาจำนวนสมาชิกในครัวเรือนระหว่าง 1-3 คน ร้อยละ 27.6 สำหรับการประกอบอาชีพหลัก พบว่า ผู้ให้สัมภาษณ์ประกอบอาชีพค้าขาย/ ธุรกิจส่วนตัว ร้อยละ 36.0 รองลงมาประกอบอาชีพพนักงานบริษัท/ พนักงานโรงงาน ร้อยละ 34.8 ทั้งนี้ผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าไม่ได้ประกอบอาชีพเสริมแต่อย่างใด ร้อยละ 96.3 รองลงมาจะระบุว่าประกอบอาชีพเสริม ร้อยละ 3.7 โดยส่วนใหญ่ประกอบอาชีพรับจ้างทั่วไป ร้อยละ 63.1 รองมาขายของออนไลน์

ร้อยละ 21.1 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดยกเว้นไม่มีปัญหาในการประกอบอาชีพ สำหรับรายได้หลักของครอบครัว ผู้ให้สัมภาษณ์ระบุว่า มีรายได้มากกว่า 50,000 บาท/เดือน ร้อยละ 93.5 รองลงมาคือมีรายได้ระหว่าง 40,001-50,000 บาท/เดือน ร้อยละ 5.3 ส่วนรายจ่ายของผู้ให้สัมภาษณ์พบว่า มีรายจ่ายมากกว่า 50,000 บาท/เดือน ร้อยละ 75.5 รองลงมาคือมีรายจ่ายอยู่ระหว่าง 40,001-50,000 บาท/เดือน ร้อยละ 15.9

เมื่อพิจารณาถึงความเพียงพอของรายได้เปรียบเทียบกับรายจ่ายของครัวเรือน พบว่า ผู้ให้สัมภาษณ์ระบุว่า มีรายได้เพียงพอและมีเหลือเก็บออม ร้อยละ 98.0 รองลงมาคือมีรายได้เพียงพอ แต่ไม่มีเงินเก็บออม ร้อยละ 1.8 และไม่มีเพียงพอ แต่ไม่มีหนี้สิน ร้อยละ 0.2

### 3) ข้อมูลด้านสาธารณสุขและสาธารณสุขในชุมชน

**ข้อมูลด้านสาธารณสุข/สุขภาพ** พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ ระบุว่าในรอบปีที่ผ่านมาจนถึงปัจจุบันตนเองและบุคคลในครอบครัวไม่เคยเจ็บป่วย ร้อยละ 68.5 รองลงมาเคยเจ็บป่วย ร้อยละ 31.5 โดยเคยเจ็บป่วย ส่วนใหญ่ 3 อันดับแรก ซึ่งเจ็บป่วยเป็นโรคหืด/ทางเดินหายใจ ร้อยละ 30.0 รองลงมาเป็นโรคผิวหนังและภูมิแพ้ ร้อยละ 22.3 โดยผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าสาเหตุของโรคที่เจ็บป่วยมาจากโรคประจำตัว/ระบบร่างกายบกพร่อง ร้อยละ 67.2 รองลงมาเกิดมาแต่กำเนิดหรือเปลี่ยนแปลง ร้อยละ 18.6 โดยเมื่อเจ็บป่วยแล้ว ผู้ให้สัมภาษณ์จะเข้ารับการรักษาที่โรงพยาบาลของรัฐ ร้อยละ 63.3 รองลงมาที่รักษาที่โรงพยาบาลเอกชน ร้อยละ 20.5 โดยผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่า การให้บริการสาธารณสุขในพื้นที่ไม่มีปัญหาในการให้บริการ ร้อยละ 91.9 รองลงมามีปัญหาในการให้บริการ ร้อยละ 8.1 โดยปัญหาเนื่องจากบุคลากรไม่เพียงพอ และบริการช้า

**แหล่งน้ำบริโภค (น้ำดื่ม) ในครัวเรือน** พบว่า ผู้ให้สัมภาษณ์ทั้งหมดซื้อน้ำดื่มบรรจุขวด/ถังมาบริโภค ซึ่งผู้ให้สัมภาษณ์ทั้งหมดระบุว่าไม่มีปัญหาคุณภาพน้ำบริโภค (น้ำดื่ม) ทั้งนี้การปรับปรุงคุณภาพน้ำก่อนนำมาบริโภค ผู้ให้สัมภาษณ์ทั้งหมดระบุว่าไม่เคยทำการปรับปรุงคุณภาพน้ำก่อนนำมาดื่ม ซึ่งผู้ให้สัมภาษณ์ทั้งหมดระบุว่า มีปริมาณน้ำบริโภค (น้ำดื่ม) เพียงพอ

**แหล่งน้ำอุปโภค (น้ำสำหรับซัก ล้าง น้ำใช้) ในครัวเรือน** พบว่า ครัวเรือนทั้งหมดใช้น้ำประปา ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าน้ำอุปโภค (น้ำสำหรับซัก ล้าง น้ำใช้) ไม่มีปัญหาคุณภาพน้ำ ร้อยละ 89.4 รองลงมา ร้อยละ 10.6 ระบุว่าไม่มีปัญหาคุณภาพน้ำ โดยปัญหาคุณภาพน้ำอุปโภค (น้ำสำหรับซัก ล้าง น้ำใช้) เกิดจากน้ำขุ่น มีตะกอน ทั้งนี้การปรับปรุงคุณภาพน้ำก่อนนำมาใช้ ผู้ให้สัมภาษณ์ทั้งหมดระบุว่า ไม่เคยทำการปรับปรุงคุณภาพน้ำก่อนนำมาใช้ ซึ่งผู้ให้สัมภาษณ์ทั้งหมดมีปริมาณน้ำอุปโภค (น้ำใช้) เพียงพอ

**แหล่งน้ำเพื่อการเกษตร** พบว่า ครัวเรือนส่วนใหญ่ทำการเกษตรโดยใช้น้ำฝน ร้อยละ 1.6 รองลงมา ใช้น้ำบ่อน้ำ/น้ำบาดาล ร้อยละ 0.2 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดระบุว่า แหล่งน้ำเพื่อการเกษตรไม่มีปัญหาคุณภาพน้ำ ทั้งนี้การปรับปรุงคุณภาพน้ำก่อนนำมาใช้ทำการเกษตร ผู้ให้สัมภาษณ์ทั้งหมดระบุว่า ไม่เคยทำการปรับปรุงคุณภาพน้ำก่อนนำมาใช้ ซึ่งผู้ให้สัมภาษณ์ทั้งหมดระบุว่า มีปริมาณน้ำเพื่อการเกษตรเพียงพอ

**การกำจัดของเสียในครัวเรือน** พบว่า การกำจัดน้ำเสีย/น้ำทิ้งของชุมชน ครัวเรือนทั้งหมด ในชุมชนระบายลงท่อระบายน้ำเทศบาล

**การกำจัดขยะ/มูลฝอยในครัวเรือน** พบว่า ผู้ให้สัมภาษณ์ทั้งหมดรวบรวมแล้วนำไปทิ้งยังขยะของเทศบาล

**การใช้ไฟฟ้าในครัวเรือน** พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่มีปัญหาการใช้ไฟฟ้าในครัวเรือน ร้อยละ 99.6 รองลงมาคือมีปัญหาการใช้ไฟฟ้าในครัวเรือน ร้อยละ 0.4 โดยมีปัญหาเนื่องจากไฟฟ้าตกบ่อย

**การใช้เส้นทางคมนาคม** พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่มีปัญหาการใช้เส้นทางคมนาคม ร้อยละ 66.7 รองลงมาคือมีปัญหาการใช้เส้นทางคมนาคม ร้อยละ 33.3 โดยมีปัญหาเนื่องจากรถยนต์และจักรยาน

**การระบายน้ำและน้ำท่วมขังในพื้นที่** พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่มีปัญหาการระบายน้ำ ร้อยละ 74.8 รองลงมาคือมีปัญหาการระบายน้ำ ร้อยละ 25.2 โดยมีปัญหามาจากปริมาณน้ำฝนมาก

### 4) สภาพแวดล้อมในปัจจุบัน

ผลจากการสัมภาษณ์ถึงสภาพสิ่งแวดล้อมในปัจจุบัน พบว่า ผู้ให้สัมภาษณ์ระบุว่าในระยะ 1 ปีที่ผ่านมาสภาพสิ่งแวดล้อมในชุมชนที่ย้ายมาไม่มีเปลี่ยนแปลงไปจากเดิม ร้อยละ 87.8 รองลงมาสภาพสิ่งแวดล้อมมีการเปลี่ยนแปลงไปจากเดิมปานกลาง ร้อยละ 9.0 สภาพแวดล้อมมีการเปลี่ยนแปลงไปจากเดิมเล็กน้อย ร้อยละ 1.8 และสภาพแวดล้อมเปลี่ยนแปลงไปจากเดิมมาก ร้อยละ 1.4 ส่วนผู้ระบุว่าชุมชนมีการเปลี่ยนแปลงโดยส่วนใหญ่ 3 อันดับแรก พบว่า สิ่งปลูกสร้างเพิ่มขึ้น ร้อยละ 33.9 รองลงมาประชากรเพิ่มขึ้น ร้อยละ 17.8 และไฟฟ้าในชุมชนดีขึ้น ร้อยละ 16.1

### ผลกระทบด้านสิ่งแวดล้อม

สำหรับปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมในชุมชนที่ได้รับในปัจจุบัน ดังแสดงใน

ตารางที่ 12 โดยสามารถสรุปปัญหาได้ 3 อันดับแรก ดังนี้

■ **อันดับ 1 ผู้ละออง** พบว่า เป็นปัญหาที่ได้รับมากที่สุด ร้อยละ 100.0 มีระดับของผลกระทบส่วนใหญ่ที่ได้รับอยู่ในระดับปานกลาง ร้อยละ 70.1 โดยสาเหตุของผลกระทบส่วนใหญ่ระบุว่าเกิดจากการจราจร ร้อยละ 74.6

■ **อันดับ 2 เสียงดัง** พบว่า เป็นปัญหาที่ได้รับ ร้อยละ 62.2 มีระดับของผลกระทบส่วนใหญ่ที่ได้รับอยู่ในระดับปานกลาง ร้อยละ 70.1 โดยสาเหตุของผลกระทบระบุว่าเกิดจากการจราจร ร้อยละ 87.8

■ **อันดับ 3 การจราจร/อุบัติเหตุ** พบว่า เป็นปัญหาที่ได้รับ ร้อยละ 32.1 มีระดับของผลกระทบส่วนใหญ่ที่ได้รับอยู่ในระดับปานกลาง ร้อยละ 83.0 โดยสาเหตุของผลกระทบระบุว่าเกิดจากการจราจร ร้อยละ 94.6

ตารางที่ 12 ความคิดเห็นของครัวเรือนต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับในปัจจุบัน

ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
1. ผู้ละออง*	0.0	100.0	104	70.1	19.5	- การจราจร (74.6%) - โรงงาน (24.3%) - คนในชุมชน (1.0%) - ปริมาณน้ำฝน (0.1%)
2. ควัน/เขม่า	82.6	17.4	348	62.9	2.3	- การจราจร (70.5%) - โรงงาน (29.5%)
3. กลิ่นเหม็น	87.1	12.9	424	57.6	0.0	- โรงงาน (80.5%) - คนในชุมชน (15.6%) - การจราจร (3.9%)
4. เสียงดัง**	37.8	62.2	154	70.1	14.5	- การจราจร (87.8%) - คนในชุมชน (6.1%) - ปริมาณน้ำฝน (5.5%) - ระบบการระบายน้ำ (0.3%) - โรงงาน (0.3%)
5. ขยะมูลฝอยตกค้าง	96.9	3.1	874	6.3	6.3	- คนในชุมชน (81.2%) - การจราจร (18.8%)

ตารางที่ 12 ความคิดเห็นของครัวเรือนต่อปัญหาความเดือดร้อน/ความรำคาญด้านสิ่งแวดล้อมที่ได้รับในปัจจุบัน

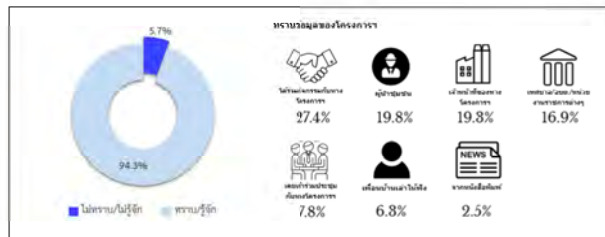
ผลกระทบ	ไม่มี (ร้อยละ)	มี (ร้อยละ)	ระดับผลกระทบ (ร้อยละ)			สาเหตุของผลกระทบ
			น้อย	ปานกลาง	มาก	
6. น้ำเสีย	100.0	0.0	0.0	0.0	0.0	-
7. น้ำท่วมขัง	81.6	18.4	745	25.5	0.0	- ปริมาณน้ำฝน (55.5%) - ระบบการระบายน้ำ (37.8%) - การจราจร (6.7%)
8. สัตว์เลี้ยงรบกวน	99.8	0.2	100.0	0.0	0.0	- ปริมาณน้ำฝน (50.0%) - ระบบการระบายน้ำ (50.0%)
9. ถนนชำรุด/การคมนาคมไม่สะดวก	97.5	2.5	154	76.9	7.1	- การจราจร (100.0%)
10. การจราจร/อุบัติเหตุ***	67.9	32.1	140	83.0	3.0	- การจราจร (94.6%) - ปริมาณน้ำฝน (4.8%) - โรงงาน (0.6%)
11. การขาดแคลนน้ำใช้	99.8	0.2	0.0	0.0	100.0	- การจราจร (100.0%)
12. การรั่วไหลของสารเคมี/ก๊าซธรรมชาติ	100.0	0.0	0.0	0.0	0.0	-
13. การเกิดเพลิงไหม้/การระเบิด	100.0	0.0	0.0	0.0	0.0	-

ที่มา : รวบรวมโดยบริษัท เอ็นแอลแอล แลบริเออร์ กรุ๊ป (ประเทศไทย) จำกัด, 2568

หมายเหตุ : \* \*\* หมายถึง ลำดับความคิดเห็นของผู้ให้สัมภาษณ์ใน 3 ลำดับแรก

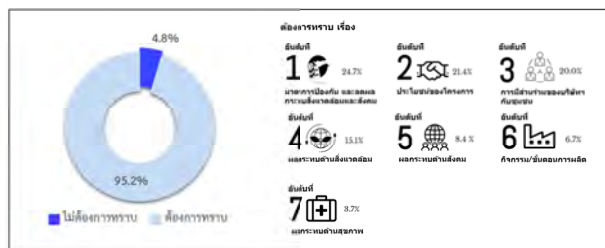
### 5) การรับรู้ข้อมูลข่าวสาร และการมีส่วนร่วมกิจกรรมของโครงการ

ความคิดเห็นเกี่ยวกับโรงไฟฟ้าถ่านหินเอสที 2 ของบริษัท กัลป์ เอ็นแอลแอล 2 จำกัด พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ทราบ/รู้จักโรงไฟฟ้า ร้อยละ 94.3 รองลงมาไม่ทราบ/ไม่รู้จัก ร้อยละ 5.7 ส่วนผู้ให้สัมภาษณ์ที่ระบุว่าทราบนั้นโดย 3 อันดับแรก ทราบจากได้ร่วมกิจกรรมกับทางโครงการ ร้อยละ 27.4 รองลงมาทราบจากผู้นำชุมชน ร้อยละ 19.8 และทราบจากเจ้าหน้าที่ของทางโครงการ ร้อยละ 19.3 โดยมีรายละเอียดดังรูปที่ 21



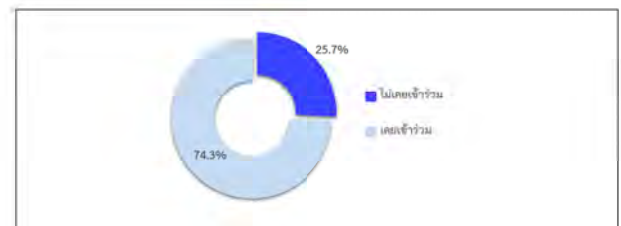
รูปที่ 21 ความคิดเห็นของครัวเรือนที่มีต่อการรับทราบข้อมูลของโรงไฟฟ้า

สำหรับข้อมูลการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการรับทราบข้อมูลข่าวสารเกี่ยวกับโรงไฟฟ้า ร้อยละ 95.2 ทั้งนี้ข้อมูลที่ต้องการให้มีการประชาสัมพันธ์เพิ่มเติมคือ 3 อันดับแรก ต้องการทราบข้อมูลเกี่ยวกับมาตรการป้องกัน และลดผลกระทบ ร้อยละ 24.7 รองลงมา ต้องการทราบประโยชน์ของโครงการ ร้อยละ 21.4 และต้องการทราบการมีส่วนร่วมของบริษัทร่วมกับชุมชน ร้อยละ 20.0 ตามลำดับ ส่วนผู้ที่ไม่ต้องการรับทราบข้อมูล/ข่าวสารเกี่ยวกับโรงไฟฟ้า ร้อยละ 4.8 โดยมีรายละเอียดดังรูปที่ 22



รูปที่ 22 ความคิดเห็นของครัวเรือนที่มีต่อการประชาสัมพันธ์ข่าวสารของโรงไฟฟ้า

สำหรับกิจกรรมที่โรงไฟฟ้าจัดขึ้น พบว่า ผู้ให้สัมภาษณ์ทั้งหมดสามารถระบุกิจกรรมที่โรงไฟฟ้าจัดขึ้นได้ เมื่อสอบถามถึงการเข้าร่วมกิจกรรมกับทางโรงไฟฟ้า ผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าเคยเข้าร่วมกิจกรรมกับโรงไฟฟ้า ร้อยละ 74.3 รองลงมาไม่เคยเข้าร่วมกิจกรรม ร้อยละ 25.7 โดยผู้ให้สัมภาษณ์ที่ระบุว่าไม่เคยเข้าร่วมเนื่องจาก ไม่สะดวก ส่วนผู้ให้สัมภาษณ์ที่ระบุว่าเคยเข้าร่วมกิจกรรมเนื่องจาก กิจกรรมน่าสนใจ ผู้นำพา และกิจกรรมพัฒนาชุมชน เป็นต้น โดยมีรายละเอียดดังรูปที่ 23



รูปที่ 23 ความคิดเห็นของครัวเรือนที่มีต่อการเข้าร่วมกิจกรรมกับโรงไฟฟ้า

เมื่อสอบถามถึงการรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น ซึ่งมีรายละเอียดดังตารางที่ 13 โดยสามารถสรุปได้ดังนี้

- กองทุนพัฒนาชุมชนในพื้นที่รอบโรงไฟฟ้า (คพรฟ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2) พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 81.3 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 18.7 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- การจัดตั้งคณะกรรมการตรวจสอบผลกระทบสิ่งแวดล้อมโรงไฟฟ้าหนองลอก และการจัดการประชุมคณะกรรมการฯ ทุกๆ 3 เดือน พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่รู้จักกิจกรรม ร้อยละ 53.1 รองลงมารู้จักกิจกรรม ร้อยละ 46.9 ซึ่งผู้ให้สัมภาษณ์ส่วนใหญ่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 99.8 รองลงมาไม่ต้องการให้ดำเนินการต่อเนื่อง ร้อยละ 0.2
- สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเหล่ากาชาด อำเภอบ้านค่าย เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 91.9 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 8.1 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

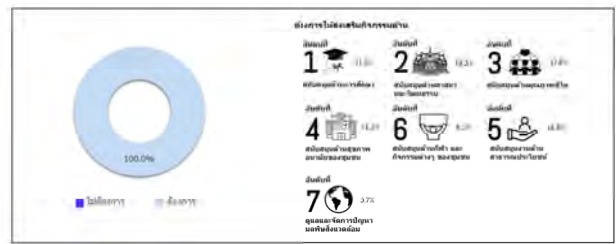
- สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเล่าขานตำนานเมืองระยอง เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 95.6 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 4.4 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดการกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 90.9 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 9.1 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬาและการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาต้านยาเสพติดตำบลหนองลอก การสนับสนุนงบประมาณงานกีฬาอสม. ส่งเสริมการท่องเที่ยวทุ่งปอเพื่อง ๗ บางบุตร เป็นต้น พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่รู้จักกิจกรรม ร้อยละ 57.3 รองลงมาไม่รู้จักกิจกรรม ร้อยละ 42.7 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์ พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่รู้จักกิจกรรม ร้อยละ 55.8 รองลงมารู้จักกิจกรรม ร้อยละ 44.2 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง
- กิจกรรมการเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ไม่รู้จักกิจกรรม ร้อยละ 67.4 รองลงมารู้จักกิจกรรม ร้อยละ 32.6 ซึ่งผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ดำเนินการต่อเนื่อง

ตารางที่ 13 ความคิดเห็นของครัวเรือนต่อการรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น

กิจกรรมที่โรงไฟฟ้า จัดขึ้น	การรู้จัก		ความต้องการให้ดำเนินการต่อเนื่อง	
	ไม่รู้จัก	รู้จัก	ไม่ต้องการ	ต้องการ
1. กองทุนพัฒนาชุมชนในพื้นที่รอบโรงไฟฟ้า (คพรฟ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2)	18.7	81.3	0.0	100.0
2. การจัดตั้งคณะกรรมการตรวจสอบผลกระทบสิ่งแวดล้อมโรงไฟฟ้าหนองลอก และการจัดการประชุมคณะกรรมการฯ ทุกๆ 3 เดือน	53.1	46.9	0.2	99.8
3. สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเหล่ากาชาด อำเภอบ้านค่าย เป็นต้น	8.1	91.9	0.0	100.0
4. สนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเล่าขานตำนานเมืองระยอง เป็นต้น	4.4	95.6	0.0	100.0
5. สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดการกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น	9.1	90.9	0.0	100.0
6. การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬา และการท่องเที่ยว) ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาด้านกีฬาต้านยาเสพติดตำบลหนองลอก การสนับสนุนงบประมาณงานกีฬาอสม. ส่งเสริมการท่องเที่ยวทุ่งปอเพื่อง ๗ บางบุตร เป็นต้น	42.7	57.3	0.0	100.0
7. โครงการป้องกันและลดอุบัติเหตุทางถนนช่วงเทศกาลปีใหม่และเทศกาลสงกรานต์	55.8	44.2	0.0	100.0
8. กิจกรรมการเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า	67.4	32.6	0.0	100.0

ที่มา : รวบรวมโดยบริษัท เอนเอแอล แลบริเออรี่ กรุ๊ป (ประเทศไทย) จำกัด, 2568

ผู้ให้สัมภาษณ์ทั้งหมดระบุว่าหากทางโรงไฟฟ้า จัดกิจกรรมร่วมกับชุมชนยื่นเข้าร่วมกิจกรรม สำหรับความต้องการของชุมชนในการให้โครงการสนับสนุน/ส่งเสริมกิจกรรม พบว่า ผู้ให้สัมภาษณ์ทั้งหมดต้องการให้ทางโครงการ ส่งเสริมกิจกรรม ซึ่งผู้ให้สัมภาษณ์ระบุ 3 อันดับแรก ต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา พัฒนาโรงเรียน มอบอุปกรณ์การศึกษา ร้อยละ 21.2 รองลงมาต้องการให้สนับสนุนด้านศาสนา และวัฒนธรรม เช่น ทำนุบำรุงศาสนา ทอดผ้าป่า ร่วมกิจกรรมตามประเพณี ร้อยละ 18.5 และต้องการให้สนับสนุนด้านคุณภาพชีวิต เช่น สนับสนุนอาชีพชุมชน รับประทานอาหารกลางวัน ร้อยละ 17.3 ตามลำดับ โดยมีรายละเอียดดังรูปที่ 24



รูปที่ 24 ความคิดเห็นของครัวเรือนที่มีความต้องการของชุมชนในการให้โรงไฟฟ้า สนับสนุน/ส่งเสริมกิจกรรม

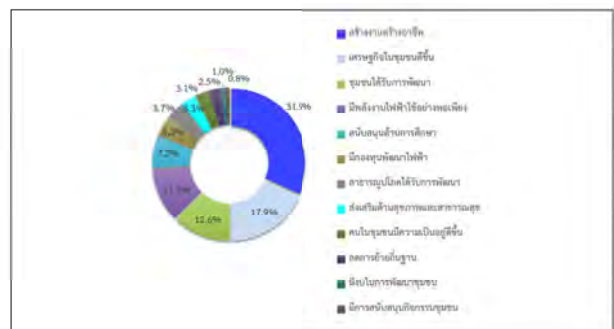
#### 6) ผลกระทบและทัศนคติต่อการดำเนินงานของโรงไฟฟ้า

##### 6.1) ผลดีและผลเสียที่ได้รับจากการดำเนินการของโรงไฟฟ้า สามารถสรุปได้ดังนี้

**ผลดีที่ได้รับจากการดำเนินการของโรงไฟฟ้า** ผู้ให้สัมภาษณ์ได้รับผลดี จำนวน 486 ราย ซึ่งมีรายละเอียดดังรูปที่ 25

- สร้างงานสร้างอาชีพ ร้อยละ 31.9
- เศรษฐกิจในชุมชนดีขึ้น ร้อยละ 17.9
- ชุมชนได้รับการพัฒนา ร้อยละ 12.6
- มีพลังงานไฟฟ้าใช้อย่างพอเพียง ร้อยละ 11.7
- สนับสนุนด้านการศึกษา ร้อยละ 7.2
- มีกองทุนพัฒนาไฟฟ้า ร้อยละ 4.3
- สาธารณูปโภคได้รับการพัฒนา ร้อยละ 3.7
- ส่งเสริมด้านสุขภาพและสาธารณสุข ร้อยละ 3.3
- คนในชุมชนมีความเป็นอยู่ดีขึ้น ร้อยละ 3.1

- ลดการย้ายถิ่นฐาน ร้อยละ 2.5
- มีงบในการพัฒนาชุมชน ร้อยละ 1.0
- มีการสนับสนุนกิจกรรมชุมชน ร้อยละ 0.8



รูปที่ 25 ความคิดเห็นของครัวเรือนที่มีผลดีที่ได้รับจากการดำเนินการของโรงไฟฟ้า

**ผลเสียที่ได้รับจากการดำเนินการของโรงไฟฟ้า** ผู้ให้สัมภาษณ์ทั้งหมดไม่ได้รับผลเสียแต่อย่างใด

##### 6.2) ความพึงพอใจต่อการดูแลสิ่งแวดล้อมเพื่อนำไปจัดทำดัชนีความพึงพอใจของชุมชน (Community Satisfaction Index) ซึ่งมีรายละเอียดดังตารางที่ 14 โดยสามารถสรุปได้ดังนี้

- **ด้านความปลอดภัยในกระบวนการผลิต** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.3 รองลงมามีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 33.4 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 8.3 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 3.75$ )
- **ด้านสังคม** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก ร้อยละ 59.1 รองลงมามีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 38.4 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 2.5 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 3.64$ )

■ **ด้านสิ่งแวดล้อม** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก ร้อยละ 55.4 รองลงมามีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 42.3 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 2.3 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 3.60$ )

■ **ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก ร้อยละ 58.5 รองลงมามีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 34.0 และมีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 7.5 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 3.73$ )

■ **ด้านการดูแลสภาพของประชาชน** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับมาก ร้อยละ 59.5 รองลงมามีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 38.2 และมีความพึงพอใจอยู่ในระดับมากที่สุด ร้อยละ 2.3 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับมาก ( $\bar{x} = 3.64$ )

■ **การเปิดเผยข้อมูล** พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจอยู่ในระดับปานกลาง ร้อยละ 51.8 รองลงมามีความพึงพอใจอยู่ในระดับมาก ร้อยละ 46.7 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 1.5 มีค่าเฉลี่ยของความพึงพอใจอยู่ในระดับปานกลาง ( $\bar{x} = 3.50$ )

#### ตารางที่ 14 ความเห็นของครัวเรือนต่อความพึงพอใจต่อการดูแลสังคมของโรงไฟฟ้า

การดูแลสังคม	ระดับความพึงพอใจ (ร้อยละ)					ค่าเฉลี่ย $\bar{x}$	แปลผล <sup>1)</sup>
	น้อยที่สุด	น้อย	ปานกลาง	มาก	มากที่สุด		
1. ด้านความปลอดภัยในกระบวนการผลิต	0.0	0.0	33.4	58.3	8.3	3.75	มาก
2. ด้านสังคม	0.0	0.0	38.4	59.1	2.5	3.64	มาก
3. ด้านสิ่งแวดล้อม	0.0	0.0	42.3	55.4	2.3	3.60	มาก
4. ด้านกิจกรรมชุมชนสัมพันธ์/การมีส่วนร่วม	0.0	0.0	34.0	58.5	7.5	3.73	มาก
5. ด้านการดูแลสภาพของประชาชน	0.0	0.0	38.2	59.5	2.3	3.64	มาก
6. การเปิดเผยข้อมูล	0.0	0.0	51.8	46.7	1.5	3.50	ปานกลาง

หมายเหตุ : <sup>1)</sup> การแปลผลค่าเฉลี่ย 1.00 - 1.50 = น้อยที่สุด

1.51 - 2.50 = น้อย

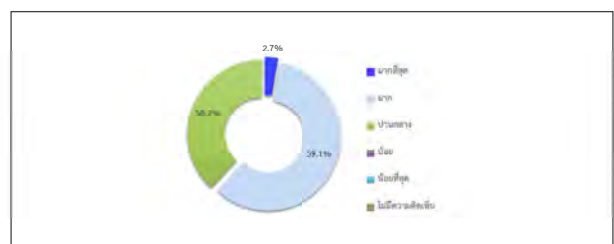
2.51 - 3.50 = ปานกลาง

3.51 - 4.50 = มาก

4.51 - 5.00 = มากที่สุด

ที่มา : รวบรวมโดยบริษัท เอนแอล และบราเธอร์ กรุ๊ป (ประเทศไทย) จำกัด, 2568

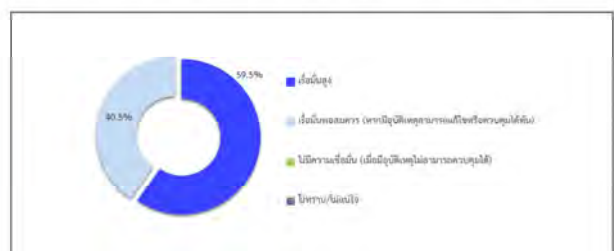
สำหรับความคิดเห็นในภาพรวมต่อความพึงพอใจของโครงการ พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับมาก ร้อยละ 59.1 รองลงมามีความพึงพอใจในระดับปานกลาง ร้อยละ 38.2 และมีความพึงพอใจในระดับมากที่สุด ร้อยละ 2.7 ซึ่งมีรายละเอียดดังรูปที่ 26



รูปที่ 26 ความคิดเห็นของครัวเรือนที่มีต่อภาพรวมต่อความพึงพอใจของโรงไฟฟ้า

#### 7) ความเชื่อมั่น และความคิดเห็นต่อโครงการ

ในด้านความเชื่อมั่นต่อระบบบริหารจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆของโรงไฟฟ้า พบว่า ผู้ให้สัมภาษณ์ส่วนใหญ่ระบุว่าเชื่อมั่นสูง ร้อยละ 59.5 รองลงมาเชื่อมั่นพอสมควร (หากมีอุปสรรคสามารถแก้ไขหรือควบคุมได้) ร้อยละ 40.5 โดยมีรายละเอียดดังรูปที่ 27



รูปที่ 27 ความคิดเห็นของครัวเรือนที่มีต่อความเชื่อมั่นต่อระบบการบริหารจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบด้านต่างๆ

ความคิดเห็นในภาพรวมต่อการดำเนินงานของโรงไฟฟ้า ในปี พ.ศ. 2568 พบว่าผู้ให้สัมภาษณ์  
ทั้งหมดระบุว่ามีประโยชน์มากกว่าเสีย โดยมีรายละเอียดดังรูปที่ 28



รูปที่ 28 ความคิดเห็นของครัวเรือนที่มีภาพรวมในการดำเนินงานของโรงไฟฟ้า

สำหรับข้อเสนอแนะอื่นๆ ที่เกี่ยวกับโครงการ สามารถสรุปเป็นประเด็นสำคัญได้ดังนี้

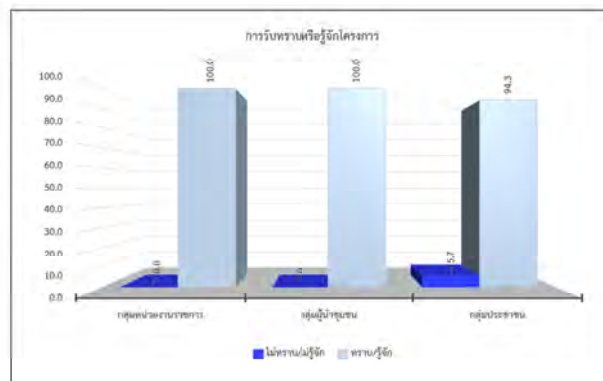
- อยากให้ส่งเสริมด้านทักษะอาชีพให้แก่คนในชุมชน ร้อยละ 18.2
- ประชาสัมพันธ์เกี่ยวกับกิจกรรมมากขึ้น ร้อยละ 14.5
- สนับสนุนกิจกรรมอย่างสม่ำเสมอ ร้อยละ 11.8
- อยากให้สนับสนุนอุปกรณ์ออกกำลังกายในชุมชนมากขึ้น ร้อยละ 10.0
- สนับสนุนการศึกษาในชุมชนให้มากขึ้น ร้อยละ 9.1
- ช่วยสนับสนุนช่วยเหลือคนพิการและยากไร้ ร้อยละ 8.2
- ส่งเสริมการอนุรักษ์สิ่งแวดล้อม ร้อยละ 6.4
- สนับสนุนกิจกรรมผู้สูงอายุ ร้อยละ 6.4
- อยากให้มีกิจกรรมสำหรับเด็กมากกว่านี้ ร้อยละ 5.5
- ส่งเสริมรัฐวิสาหกิจชุมชน ร้อยละ 2.7
- สนับสนุนด้านสุขภาพและสาธารณสุข ร้อยละ 2.7
- ยกระดับคุณภาพชีวิตของคนในชุมชน ร้อยละ 1.8
- ส่งเสริมด้านวิสาหกิจในชุมชน ร้อยละ 1.8
- ส่งเสริมการท่องเที่ยวและวัฒนธรรมท้องถิ่น ร้อยละ 0.9

## 6. สรุปผลการศึกษา

จากการดำเนินการสำรวจทัศนคติชุมชนที่มีต่อโรงไฟฟ้าหนองลอก 2 ระหว่างวันที่ 19-22 สิงหาคม 2568 ในชุมชนที่อยู่บริเวณพื้นที่ศึกษาโดยรอบในรัศมี 5 กิโลเมตร จำนวน 555 ตัวอย่าง ประกอบด้วย กลุ่มหน่วยงานราชการต่างๆที่เกี่ยวข้อง จำนวน 27 ตัวอย่าง กลุ่มผู้นำชุมชน จำนวน 17 ตัวอย่าง และกลุ่มครัวเรือน จำนวน 511 ตัวอย่าง โดยสรุปผลการศึกษาดังนี้

### 6.1 การรับทราบข้อมูลของโรงไฟฟ้า มีรายละเอียดดังรูปที่ 29 โดยสามารถสรุปได้ดังนี้

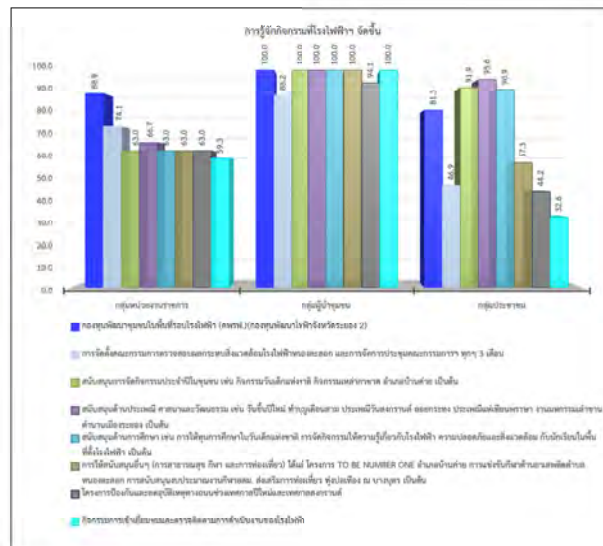
- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์ทั้งหมดทราบ/รู้จักโครงการ
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนทั้งหมดทราบ/รู้จักโครงการ
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์ทราบ/รู้จักโครงการ มากที่สุด ร้อยละ 94.3



รูปที่ 29 สรุปการรับทราบข้อมูลของโรงไฟฟ้า

### 6.2 การรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น มีรายละเอียดดังรูปที่ 30 โดยสามารถสรุปได้ดังนี้

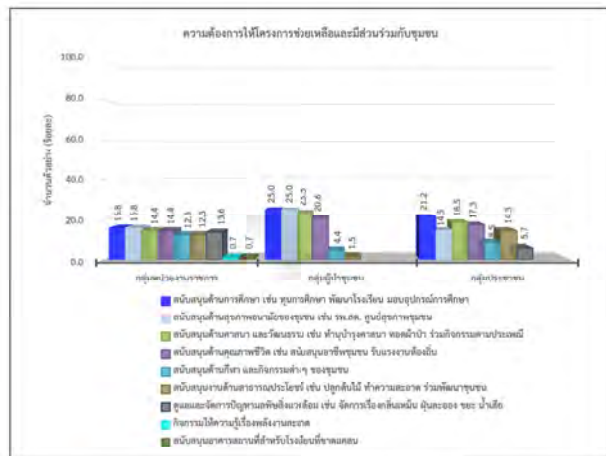
- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์รู้จักกิจกรรมพัฒนาชุมชนในพื้นที่รอบโรงไฟฟ้า (ศพรฟ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2) มากที่สุด ร้อยละ 88.9
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนรู้จักกองทุนพัฒนาชุมชนในพื้นที่รอบโรงไฟฟ้า (ศพรฟ.) (กองทุนพัฒนาไฟฟ้าจังหวัดระยอง 2) สนับสนุนการจัดกิจกรรมประจำปีในชุมชน เช่น กิจกรรมวันเด็กแห่งชาติ กิจกรรมเทศกาลเขาชะเมาบ้านค่าย เป็นต้น สนับสนุนด้านประเพณี ศาสนา และวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเล่าขานตำนานเมืองระยอง เป็นต้น สนับสนุนด้านการศึกษา เช่น การให้ทุนการศึกษาในวันเด็กแห่งชาติ การจัดกิจกรรมให้ความรู้เกี่ยวกับโรงไฟฟ้า ความปลอดภัยและสิ่งแวดล้อม กับนักเรียนในพื้นที่ตั้งโรงไฟฟ้า เป็นต้น การให้สนับสนุนอื่นๆ (การสาธารณสุข กีฬา และการท่องเที่ยว ได้แก่ โครงการ TO BE NUMBER ONE อำเภอบ้านค่าย การแข่งขันกีฬาด้านอาสาสมัครดับเพลิงหนองลอก การสนับสนุนงบประมาณงานกีฬาสถ. ส่งเสริมการท่องเที่ยว และกิจกรรมเข้าเยี่ยมชมและตรวจติดตามการดำเนินงานของโรงไฟฟ้า มากที่สุด ร้อยละ 100.0 สัดส่วนที่เท่ากัน
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์รู้จักสนับสนุนด้านประเพณี ศาสนาและวัฒนธรรม เช่น วันขึ้นปีใหม่ ทำบุญเดือนสาม ประเพณีวันสงกรานต์ ลอยกระทง ประเพณีแห่เทียนพรรษา งานมหกรรมเล่าขานตำนานเมืองระยอง เป็นต้น มากที่สุด ร้อยละ 95.6



รูปที่ 30 สรุปการรู้จักกิจกรรมที่โรงไฟฟ้า จัดขึ้น

6.3 ความต้องการให้โครงการช่วยเหลือและมีส่วนร่วมกับชุมชน มีรายละเอียดดังรูปที่ 31 โดยสามารถสรุปได้ดังนี้

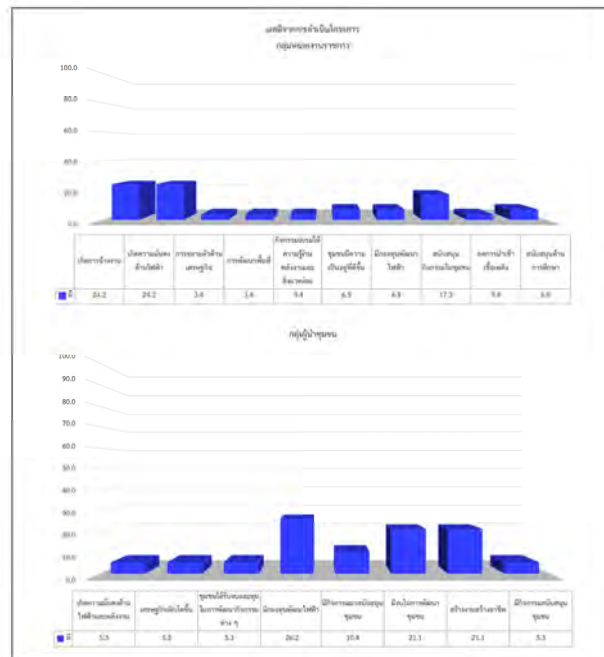
- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์ต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา พัฒนาโรงเรียน มอบอุปกรณ์การศึกษา และสนับสนุนด้านสุขภาพอนามัยของชุมชน เช่น รพ.สต. ศูนย์สุขภาพชุมชน มากที่สุด ร้อยละ 15.8 สัดส่วนที่เท่ากัน
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา พัฒนาโรงเรียน มอบอุปกรณ์การศึกษา และสนับสนุนด้านสุขภาพอนามัยของชุมชน เช่น รพ.สต. ศูนย์สุขภาพชุมชน มากที่สุด ร้อยละ 25.0 สัดส่วนที่เท่ากัน
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์ต้องการให้สนับสนุนด้านการศึกษา เช่น ทุนการศึกษา พัฒนาโรงเรียน มอบอุปกรณ์การศึกษา มากที่สุด ร้อยละ 21.2



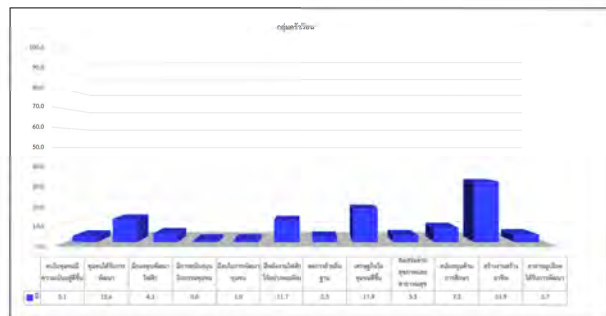
รูปที่ 31 สรุปความต้องการให้โครงการช่วยเหลือและมีส่วนร่วมกับชุมชน

6.4 ผลที่ชุมชนได้รับจากการดำเนินโรงไฟฟ้า มีรายละเอียดดังรูปที่ 32 โดยสามารถสรุปได้ดังนี้

- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์ระบุว่า มีเกิดการจ้างงาน และเกิดความมั่นคงด้านไฟฟ้า มากที่สุด ร้อยละ 24.2 สัดส่วนที่เท่ากัน
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนระบุว่า มีกองทุนพัฒนาไฟฟ้า มากที่สุด ร้อยละ 26.2
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์ระบุว่า สร้างงานสร้างอาชีพ มากที่สุด ร้อยละ 31.9



รูปที่ 32 สรุปผลที่ชุมชนได้รับจากการดำเนินโรงไฟฟ้า



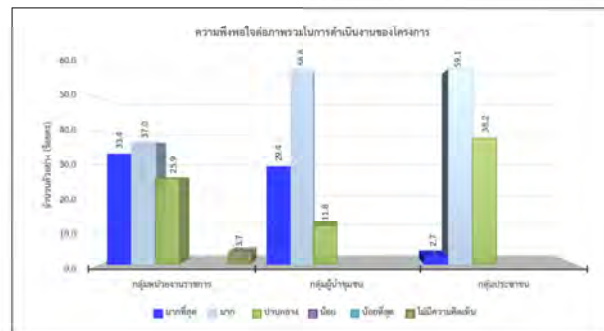
รูปที่ 32 สรุปผลที่ชุมชนได้รับจากการดำเนินโรงไฟฟ้า (ต่อ)

6.5 ผลเสียจากการดำเนินโรงไฟฟ้า โดยสามารถสรุปได้ดังนี้

- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์ทั้งหมดไม่ได้รับผลกระทบแต่อย่างใด
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนทั้งหมดไม่ได้รับผลกระทบแต่อย่างใด
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์ทั้งหมดไม่ได้รับผลกระทบแต่อย่างใด

6.6 ความพึงพอใจต่อภาพรวมในการดำเนินงานของโรงไฟฟ้า มีรายละเอียดดังรูปที่ 33 โดยสามารถสรุปได้ดังนี้

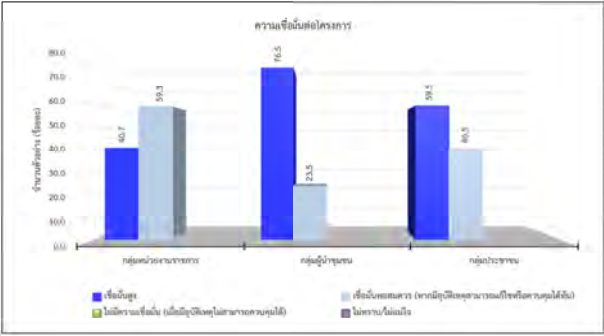
- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับมาก มากที่สุด ร้อยละ 37.0
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนมีความพึงพอใจในระดับมาก มากที่สุด ร้อยละ 58.8
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์มีความพึงพอใจในระดับมาก มากที่สุด ร้อยละ 59.1



รูปที่ 33 สรุปความพึงพอใจต่อภาพรวมในการดำเนินงานของโรงไฟฟ้า

6.7 ความเชื่อมั่นต่อระบบการจัดการด้านสิ่งแวดล้อมและมาตรการป้องกันผลกระทบต่อพื้นที่ข้างเคียงของโรงไฟฟ้า มีรายละเอียดดังรูปที่ 34 โดยสามารถสรุปได้ดังนี้

- กลุ่มหน่วยงานราชการ พบว่า ผู้ให้สัมภาษณ์เชื่อมั่นพอสมควร (หากมีอุปสรรคก็สามารถแก้ไขหรือควบคุมได้ทันที) มากที่สุด ร้อยละ 59.3
- กลุ่มผู้นำชุมชน พบว่า ผู้นำชุมชนมีความเชื่อมั่นสูง มากที่สุด ร้อยละ 76.5
- กลุ่มครัวเรือน พบว่า ผู้ให้สัมภาษณ์มีความเชื่อมั่นสูง มากที่สุด ร้อยละ 59.5



รูปที่ 34 สรุปความพึงพอใจต่อความเชื่อมั่นของโรงพยาบาล

## ภาคผนวก ค-10

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สำเนาหนังสือนำเสนอชี้แจงผลการพิจารณาความเห็นต่อ  
รายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบ  
สิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบ  
สิ่งแวดล้อม ฉบับประจำเดือนกรกฎาคม-ธันวาคม 2565

19 มิถุนายน 2566



เรื่อง ขี้แจ้งผลการพิจารณาความเห็นต่อรายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด (มหาชน) สำนักงานคณะกรรมการกำกับกิจการพลังงาน

เรียน หนังสือสำนักงานคณะกรรมการกำกับกิจการพลังงาน ที่ สกพ 5502/ว7039 ลงวันที่ 30 พฤษภาคม 2566

สิ่งที่ส่งมาด้วย 1. รายละเอียดขี้แจ้งผลการพิจารณารายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด ประจำปีประจำปีงบประมาณ- ธันวาคม 2565

ตามหนังสือที่อ้างถึง สำนักงานคณะกรรมการกำกับกิจการพลังงาน ได้แจ้งผลการพิจารณา รายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด ประจำปีประจำปีงบประมาณ- ธันวาคม พ.ศ. 2565 สำนักงานคณะกรรมการกำกับกิจการพลังงาน มีความเห็นต่อรายงานฯ และขอความร่วมมือโครงการให้ปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมให้ครบถ้วน

โครงการฯ ได้พิจารณารายละเอียดพร้อมข้อเสนอแนะตามที่ได้แจ้งมาเป็นที่ยอมรับแล้ว พร้อมทั้งได้ดำเนินการจัดทำเอกสารชี้แจงเพิ่มเติมรายงานผลการปฏิบัติตามมาตรการฯ รายละเอียดตามสิ่งที่ส่งมาด้วยนี้

จึงเรียนมาเพื่อโปรดพิจารณา



ขอแสดงความนับถือ

(นายอานนท์ บุญยงค์)

ผู้จัดการโรงไฟฟ้า

บริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด

ผู้ประสานงานนายฐานนท์ วรณพิบูลย์ โทร: 061 1969959

Gulf NLL2

Company Limited

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87 Wireless Road, Lumpini, Pathumwan,

Bangkok 10330, Thailand

Tel: +66 2060 4499

Fax: +66 2060 4455

www.gulf.co.th

19 มิถุนายน 2566

เรื่อง ขี้แจ้งผลการพิจารณาความเห็นต่อรายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด (มหาชน) สำนักงานคณะกรรมการกำกับกิจการพลังงาน

เรียน หนังสือสำนักงานคณะกรรมการกำกับกิจการพลังงาน ที่ สกพ 5502/ว7039 ลงวันที่ 30 พฤษภาคม 2566

สิ่งที่ส่งมาด้วย 1. รายละเอียดขี้แจ้งผลการพิจารณารายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด ประจำปีประจำปีงบประมาณ- ธันวาคม 2565

ตามหนังสือที่อ้างถึง สำนักงานคณะกรรมการกำกับกิจการพลังงาน ได้แจ้งผลการพิจารณา รายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก2 (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด ประจำปีประจำปีงบประมาณ- ธันวาคม พ.ศ. 2565 สำนักงานคณะกรรมการกำกับกิจการพลังงาน มีความเห็นต่อรายงานฯ และขอความร่วมมือโครงการให้ปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมให้ครบถ้วน

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จึงเรียนมาเพื่อโปรดพิจารณา

ขอแสดงความนับถือ

(นายอานนท์ บุญยงค์)

ผู้จัดการโรงไฟฟ้า

บริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด

ผู้ประสานงานนายฐานนท์ วรณพิบูลย์ โทร: 061 1969959

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สิ่งที่ส่งมาด้วย

รายละเอียดขี้แจ้งผลการพิจารณาความเห็นต่อรายงานการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก ๒ (ระยะดำเนินการ) ของบริษัท กัลฟ์ เอ็นเนอร์จี ดีเวลลอปเมนท์ จำกัด ตั้งอยู่เลขที่ ๓๓๔ หมู่ ๓ เขตประกอบการอุตสาหกรรมตำบลลิ่วเอช อยุธยา

คำสนทนของละลอก อำเภอบ้านค่าย จังหวัดระยอง

ฉบับประจำปีงบประมาณ- ธันวาคม พ.ศ. ๒๕๖๕

๑. ผลการตรวจวัดตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ผลการตรวจวัดตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ไม่เป็นไปตามที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม ได้แก่

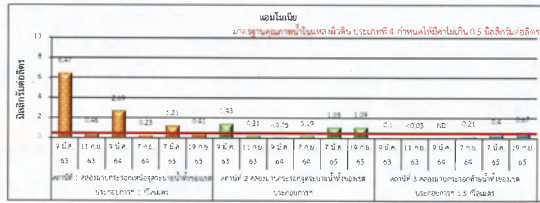
๑.๑ ผลการตรวจวัดคุณภาพน้ำผิวดินเดือนกันยายน ๒๕๖๕ มีค่าในโตรเจนทั้งหมด (TKN) จุดตรวจวัดบริเวณสถานีที่ ๒ คลองนาบกระรอก (จุดระบายน้ำทิ้งของเขตประกอบการฯ) มีค่าเท่ากับ ๑.๐๔ มิลลิกรัมต่อลิตร และสถานีที่ ๓ คลองนาบกระรอก (จุดท้ายน้ำทิ้งของเขตประกอบการฯ) มีค่าเท่ากับ ๐.๖๗ มิลลิกรัมต่อลิตร ซึ่งมีค่าไม่เป็นไปตามค่ามาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ ๔ (พ.ศ.๒๕๓๓) เรื่อง กำหนดมาตรฐานคุณภาพน้ำในแหล่งน้ำผิวดิน ประเภทที่ ๔ กำหนดให้มีค่าไม่เกิน ๐.๕ มิลลิกรัมต่อลิตร

๑.๒ ผลการตรวจวัดคุณภาพน้ำใต้ดิน เดือนกันยายน ๒๕๖๕ มีค่าความเป็นกรด-ด่าง (pH) จุดตรวจวัดบริเวณบ่อส่งแกลบ ๑ มีค่าเท่ากับ ๕.๖ และบ่อส่งแกลบ ๒ มีค่าเท่ากับ ๕.๘ ซึ่งมีค่าไม่เป็นไปตามค่ามาตรฐานตามประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดเกณฑ์การปนเปื้อนในดินและน้ำใต้ดิน การตรวจสอบคุณภาพดินและน้ำใต้ดิน การแจ้งข้อมูลรวมกับการจัดทำรายงานผลการตรวจสอบคุณภาพน้ำใต้ดินและน้ำใต้ดิน พ.ศ.๒๕๖๕ กำหนดให้มีค่าอยู่ในช่วง ๖.๕-๘.๖

สิ่งที่ส่งมาด้วย

ขี้แจ้งผลการดำเนินการของโครงการ

๑.๑ จากผลการตรวจวัดคุณภาพน้ำผิวดินของโครงการ พบว่าค่าในโตรเจนทั้งหมด (TKN) ปัจจุบันยังไม่ค่ามาตรฐานกำหนด สำหรับผลการตรวจวัดในเดือนกันยายน ๒๕๖๕ พบว่า ค่าเฉลี่ยไม่เบี่ยงเบนมาตรฐานที่ ๒ คลองนาบกระรอก (จุดระบายน้ำทิ้งของเขตประกอบการฯ) มีค่าเท่ากับ ๑.๐๔ มิลลิกรัมต่อลิตร และสถานีที่ ๓ คลองนาบกระรอก (จุดท้ายน้ำทิ้งของเขตประกอบการฯ) มีค่าเท่ากับ ๐.๖๗ มิลลิกรัมต่อลิตร (ค่าแห่งการตรวจวัดแสดงดังเอกสารแนบที่ ๑) มีแนวโน้มไม่เป็นไปตามค่ามาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ ๔ (พ.ศ.๒๕๓๓) เรื่อง กำหนดมาตรฐานคุณภาพน้ำในแหล่งน้ำผิวดิน ประเภทที่ ๔ กำหนดให้มีค่าไม่เกิน ๐.๕ มิลลิกรัมต่อลิตร คาดว่าสาเหตุเนื่องจากแหล่งน้ำในบางช่วงมีปริมาณน้ำน้อย และสภาพเป็นน้ำนิ่ง ทำให้เกิดการไหลของแหล่งน้ำค่อนข้างต่ำ และในช่วงที่ฝนตกมีการชะล้างเอาเศษวัสดุ ดิน สารอินทรีย์ต่างๆ ลงสู่แหล่งน้ำและเกิดสะสมของตะกอนดินในท้องน้ำ รวมทั้งมีเศษใบไม้ และวัชพืชโดยรอบที่ตายทำให้เกิดการทับถมมีการย่อยสลายเกิดเป็นแอมโมเนียจากกระบวนการทางชีวภาพ แสดงดังรูปที่ ๑ ทั้งนี้ทั้งจากโครงการจะส่งเข้าสู่ระบบบำบัดน้ำเสียรวมของเขตประกอบการอุตสาหกรรมตำบลลิ่วเอช อยุธยา มิได้ปล่อยลงสู่แหล่งน้ำผิวดินโดยตรงแต่อย่างใด

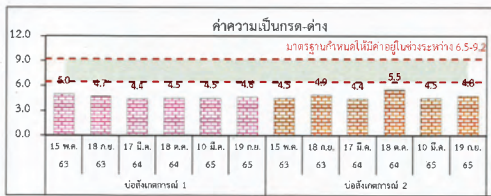


รูปที่ ๑ กราฟแสดงสรุปผลการตรวจวิเคราะห์ค่าแอมโมเนียของคุณภาพน้ำผิวดิน

๑.๒ จากผลการตรวจวัดคุณภาพน้ำใต้ดินของโครงการพบว่า ค่าความเป็นกรด-ด่าง (pH) จัดตรวจวัดบริเวณบ่อน้ำบาดาล ๑ (ทิศเหนือของโครงการ) และบ่อน้ำบาดาล ๒ (ทิศใต้ของโครงการ) (ตำแหน่งการตรวจวัดแสดงดังเอกสารแนบที่ ๒) มีค่าไม่เปลี่ยนแปลงตามมาตรฐานกำหนด ซึ่งกำหนดให้ค่าความเป็นกรด-ด่าง (pH) เปรียบเทียบกับเกณฑ์ของมาตรฐานคุณภาพน้ำบาดาลที่ใช้บริโภค ซึ่งทั้ง 2 บริเวณยังคงมีค่าความเป็นกรด-ด่าง (pH) อยู่ในช่วงที่เปลี่ยนแปลงไม่เกินหนึ่งระดับ

จากผลการตรวจวัดคุณภาพน้ำใต้ดินของโครงการตั้งแต่เริ่มดำเนินการจนถึงปัจจุบัน ระหว่างปี พ.ศ. ๒๕๖๒-๒๕๖๕ พบว่า ค่าความเป็นกรด-ด่าง (pH) มีแนวโน้มค่อนข้างต่ำ แสดงดังรูปที่ ๒ ซึ่งสอดคล้องกับข้อมูลสภาพพื้นที่เดิมของจังหวัดระยองที่มีความเป็นกรดจัด (กรมพัฒนาที่ดิน, 2561) เมื่อฝนตกสามารถทำให้เกิดการล้างสารละลายลงสู่ใต้ดินได้ ซึ่งจากงานวิจัยพบว่าน้ำใต้ดินบริเวณพื้นที่ตำบลหนองละลอก ส่วนใหญ่จะมีค่าความเป็นกรด-ด่าง (pH) อยู่ระหว่าง <5.1-6.5 (อริยะ คล้ายแก้ว (2564), รายงานการค้นคว้าอิสระ : แนวทางการกำหนดแก้ไขเกณฑ์ค่าพีเอช (pH) น้ำใต้ดินตามประกาศกระทรวงอุตสาหกรรม ของจังหวัดระยอง, วิทยาศาสตร์มหาบัณฑิต (การจัดการสิ่งแวดล้อม), สถาบันบัณฑิตพัฒนบริหารศาสตร์) แสดงดังรูปที่ ๓ และเอกสารแนบที่ ๓

ทั้งนี้โครงการได้ทำการตรวจสอบและเฝ้าระวังการรั่วไหลภายในพื้นที่โครงการอย่างสม่ำเสมอ เช่น บริเวณที่มีการจับกับสารเคมี กากของเสีย และบริเวณบ่อน้ำต่างๆ เพื่อป้องกันการปนเปื้อนลงสู่ดินและน้ำผิวดิน



รูปที่ ๒ กราฟแสดงผลการตรวจวัดระดับค่าความเป็นกรด-ด่างของคุณภาพน้ำใต้ดิน



รูปที่ ๓ แสดงการประมาณค่าความเป็นกรด-ด่าง (pH) ในน้ำใต้ดิน ของจังหวัดระยอง

## ๒. ข้อเสนอแนะ

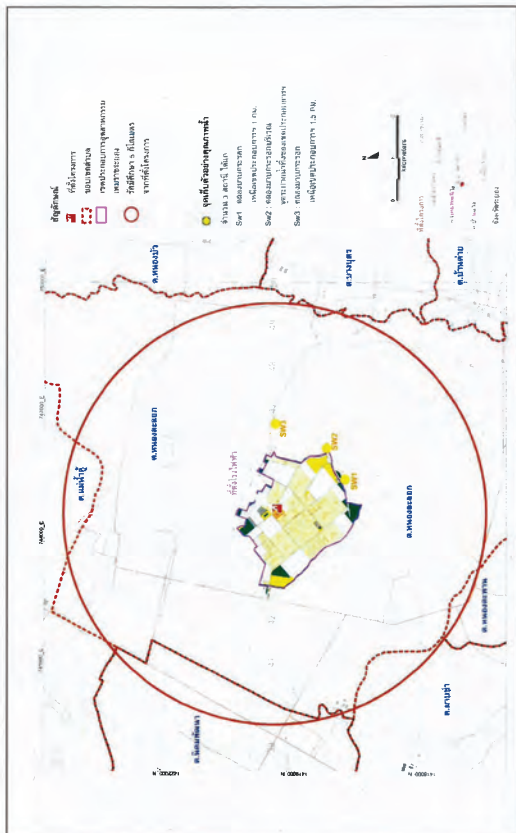
๒.๑ เฝ้าระวังผลกระทบของโครงการซึ่งอาจส่งผลกระทบต่อคุณภาพน้ำผิวดินและคุณภาพน้ำใต้ดิน และให้ปฏิบัติตามมาตรการด้านคุณภาพน้ำอย่างเคร่งครัด เพื่อป้องกันผลกระทบต่อบริเวณในแหล่งน้ำดังกล่าว

### ข้อเสนอแนะของโครงการ

๒.๑ โครงการทำการเฝ้าระวังผลการตรวจวัดคุณภาพน้ำผิวดินอย่างใกล้ชิด โดยหากพบว่าการตรวจวัดมีแนวโน้มสูงจะแจ้งให้เขตประกอบการอุตสาหกรรมดับบลิวเอชเอ ระยอง ทราบโดยทันทีเพื่อหาสาเหตุและแนวทางการแก้ไขต่อไป

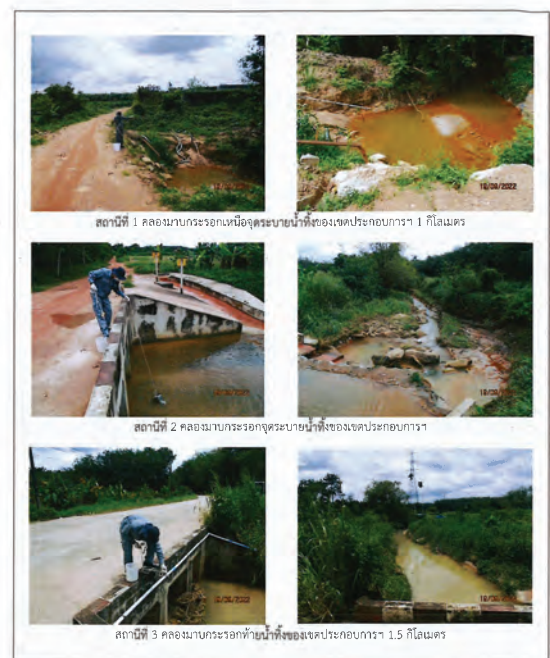
๒.๒ โครงการมีการดำเนินการเฝ้าระวัง โดยการตรวจสอบพื้นที่โดยรอบโครงการ และบริเวณที่คาดว่าจะเกิดการรั่วไหลของสารเคมีได้อย่างสม่ำเสมอ เพื่อป้องกันการปนเปื้อนลงสู่ดินและน้ำใต้ดิน

## เอกสารแนบที่ ๑



ตำแหน่งการตรวจวัดคุณภาพน้ำผิวดิน

## เอกสารแนบที่ ๑

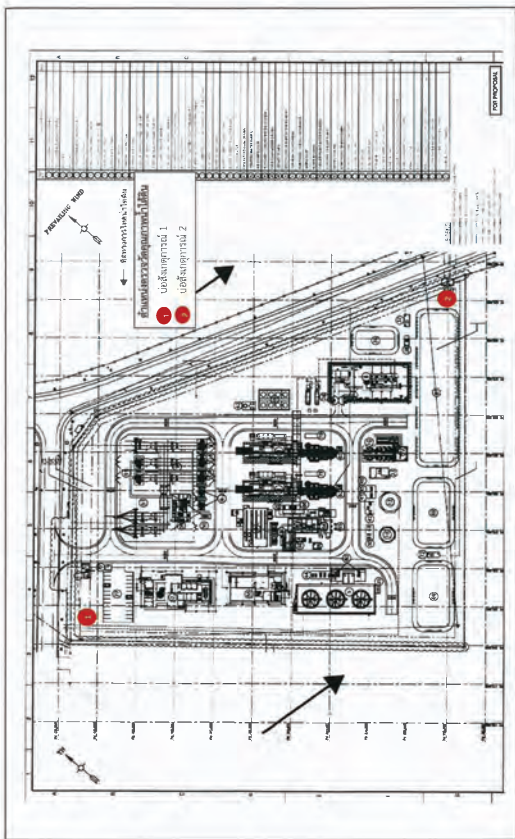


สถานีที่ 1 คลอมบากระรอกน้ำที่ของเขตประกอบการฯ 1 กิโลเมตร

สถานีที่ 2 คลอมบากระรอกน้ำที่ของเขตประกอบการฯ 1 กิโลเมตร

สถานีที่ 3 คลอมบากระรอกน้ำที่ของเขตประกอบการฯ 1.5 กิโลเมตร

แสดงการเก็บตัวอย่างคุณภาพน้ำผิวดิน



ตำแหน่งการตรวจวัดคุณภาพน้ำใต้ดิน



บ่อส่งน้ำ 1

บ่อส่งน้ำ 2

ผลการเก็บตัวอย่างคุณภาพน้ำใต้ดิน



ที่ สกท ๕๕๐๖/๖๗๖๔

สำนักงานคณะกรรมการกำกับกิจการพลังงาน  
๓๓๓ อาคารจัตุรัสจามจุรี ชั้น ๑๔ ถนนพญาไท  
แขวงปทุมวัน เขตปทุมวัน กรุงเทพฯ ๑๐๑๓๐

๓๐ พฤษภาคม ๒๕๖๖

เรื่อง ผลการตรวจสอบรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

เรียน กรรมการผู้ตรวจการบริษัท ก๊าซ เอ็นแอล ๒ จำกัด

สิ่งที่ส่งมาด้วย ความเห็นต่อรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ฉบับประจำเดือนพฤษภาคม - ธันวาคม ๒๕๖๕

ตามที่ บริษัท ก๊าซ เอ็นแอล ๒ จำกัด (บริษัท) ซึ่งมีงานประกอบกิจการตั้งอยู่เลขที่ ๓๔๔ เขตประกอบกิจการอุตสาหกรรมพระราชวัง หมู่ที่ ๓ ตำบลหนองละลอก อำเภอบ้านค่าย จังหวัดระยอง ได้รับใบอนุญาตประกอบกิจการผลิตไฟฟ้า เลขที่ กกท ๐๑-๑๒/๖๐-๒๓๓ โดยมีเงื่อนไขต้องปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและการติดตามตรวจสอบคุณภาพสิ่งแวดล้อมที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมโครงการโรงไฟฟ้าหนองละลอก (รายงานฯ) นั้น

สำนักงานคณะกรรมการกำกับกิจการพลังงาน (สำนักงาน กกพ) ได้ตรวจสอบผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และการติดตามตรวจสอบผลกระทบสิ่งแวดล้อมตามรายงานฉบับประจำเดือนพฤษภาคม - ธันวาคม ๒๕๖๕ ของบริษัท แล้ว มีความเห็นดังสิ่งที่ส่งมาด้วยสำนักงาน กกพ. ซึ่งจะให้ บริษัทฯ ปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานฯ อย่างเคร่งครัด และให้บริษัทฯ ซึ่งแจ้งความเห็นและเสนอแผนการดำเนินงานให้สำนักงาน กกพ. ทราบภายใน ๑๕ วัน นับแต่วันที่ได้รับหนังสือฉบับนี้ โดยต้องปรับปรุงแก้ไขหรือปฏิบัติตามมาตรการให้ครบถ้วนภายใน ๖๐ วัน รวมถึงรายงานความก้าวหน้าในการดำเนินการตามแผนงานหรือแนวทางแก้ไขที่บริษัทฯ ซึ่งแจ้งทุก ๓๐ วันจนกว่าจะดำเนินการแล้วเสร็จ อนึ่ง การไม่ปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานฯ ซึ่งถือเป็นข้อกำหนดหนึ่งในเงื่อนไขใบอนุญาตนั้น ถ้าเป็นกรณีร้ายแรงและมีผลกระทบต่อสิ่งแวดล้อมด้วยอาจส่งผลให้หรือเกิดข้อใบอนุญาตได้

จึงเรียนมาเพื่อโปรดทราบ

ขอแสดงความนับถือ

(นายสวาทวิวัฒน์ สุวรรณชัย) (ชื่อจริง)

ผู้ว่าราชการ กกพ. ปฏิบัติราชการแทน

เลขาธิการสำนักงานคณะกรรมการกำกับกิจการพลังงาน

บริษัท ก๊าซ เอ็นแอล ๒ จำกัด
เลขที่ ๐-๐-๒๕๖๖ หน้า ๒-๐-๐
เลขที่เอกสาร GNL2-1-0513/00๔
ผู้รับ สกท

ฝ่ายสิ่งแวดล้อมและตรวจติดตามกิจการพลังงาน  
โทร ๐ ๒๒๐๔ ๓๔๓๔ ต่อ ๕๓๓ โทรสาร ๐ ๒๒๐๔ ๓๕๖๖

ความเห็นต่อรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการโรงไฟฟ้าหนองละลอก ๒ (ระยะดำเนินการ) ของบริษัท ก๊าซ เอ็นแอล ๒ จำกัด ตั้งอยู่เลขที่ ๓๔๔ หมู่ที่ ๓ เขตประกอบกิจการอุตสาหกรรมตำบลบ้านค่าย จังหวัดระยอง ตำบลหนองละลอก อำเภอบ้านค่าย จังหวัดระยอง ฉบับประจำเดือน กรกฎาคม - ธันวาคม ๒๕๖๕

- ผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม ผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม เป็นไปตามที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม
- ผลการปฏิบัติตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ผลการปฏิบัติตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม เป็นไปตามที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม
- ผลการตรวจวัดตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ผลการตรวจวัดตามมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ไม่เป็นไปตามที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม ได้แก่
  - ผลการตรวจวัดคุณภาพน้ำผิวดินเดือนกุมภาพันธ์ ๒๕๖๕ มีค่าในโครงการทั้งหมด (TKN) จุดตรวจวัดบริเวณ สถานีที่ ๒ คลองนาบกระลอก (จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสีย) มีค่าเท่ากับ ๑.๐๔ มิลลิกรัมต่อลิตร และสถานีที่ ๓ คลองนาบกระลอก (จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสีย) มีค่าเท่ากับ ๐.๖๗ มิลลิกรัมต่อลิตร ซึ่งมีค่าไม่เป็นไปตามค่ามาตรฐานประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ ๘ (พ.ศ. ๒๕๓๗) เรื่อง กำหนดมาตรฐานคุณภาพน้ำในแหล่งน้ำผิวดิน ประเภทที่ ๔ กำหนดให้มีค่าไม่เกิน ๐.๕ มิลลิกรัมต่อลิตร
  - ผลการตรวจวัดคุณภาพน้ำใต้ดินเดือนกุมภาพันธ์ ๒๕๖๕ มีค่าความเป็นกรด-ด่าง (pH) จุดตรวจวัดบริเวณ บ่อส่งน้ำ ๑ และบ่อส่งน้ำ ๒ มีค่าเท่ากับ ๕.๔ ซึ่งมีค่าไม่เป็นไปตามค่ามาตรฐานตามประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดเกณฑ์การปนเปื้อนในดินและน้ำใต้ดิน การตรวจสอบคุณภาพดินและน้ำใต้ดิน การแจ้งข้อมูลรวมทั้งการดำเนินงานผลการตรวจสอบคุณภาพดินและน้ำใต้ดิน และรายงานผลการควบคุมและมาตรการลดการปนเปื้อนในดินและน้ำใต้ดิน พ.ศ. ๒๕๕๔ กำหนดให้มีค่าอยู่ในช่วง ๖.๕-๘.๖

๔. ข้อเสนอแนะ

๔.๑ เฝ้าระวังกิจกรรมของโครงการซึ่งอาจส่งผลกระทบต่อคุณภาพน้ำผิวดินและคุณภาพน้ำใต้ดิน และให้ปฏิบัติตามมาตรการด้านคุณภาพน้ำอย่างเคร่งครัด เพื่อป้องกันผลกระทบต่อบรรยากาศในแหล่งน้ำดังกล่าว