

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์และเอกสารประกอบมาตรการติดตาม
ตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวัดคุณภาพอากาศจากปล่องระบายอากาศจาก

Continuous Emission Monitoring System (CEMs)

ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2568

Site Name: GULF_GCG
Stack Name: Boiler
Periodically: 01/7/2025 00:00-31/7/2025 23:59

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
1/7/2025 0:00	7.81	30631.67	134.51	2.31	22.02	118.09
1/7/2025 1:00	7.41	31444.33	130.40	3.10	20.51	96.62
1/7/2025 2:00	7.26	31735.67	143.22	4.45	20.22	81.93
1/7/2025 3:00	7.38	31039.33	133.34	3.13	20.41	89.48
1/7/2025 4:00	7.47	31396	135.50	3.20	20.58	90.10
1/7/2025 5:00	7.47	32601	147.02	4.65	20.61	85.29
1/7/2025 6:00	7.35	31941.67	150.74	5.77	20.36	88.97
1/7/2025 7:00	7.54	30940.67	157.35	5.96	20.62	91.71
1/7/2025 8:00	7.39	29620.67	149.59	4.72	20.37	84.78
1/7/2025 9:00	7.43	27992.33	142.81	4.30	20.70	80.62
1/7/2025 10:00	7.48	26732.67	147.12	3.93	20.45	80.61
1/7/2025 11:00	7.63	25260.33	140.09	2.34	21.04	97.54
1/7/2025 12:00	6.98	15793	118.18	1.25	20.13	109.71
1/7/2025 13:00	7.20	5263.67	130.49	1.56	20.42	108.56
1/7/2025 14:00	7.39	8539.67	145.42	3.44	20.19	82.04
1/7/2025 15:00	6.98	13663.67	135.08	4.75	19.48	72.03
1/7/2025 16:00	6.77	11303	121.33	3.62	19.27	93.29
1/7/2025 17:00	7.36	9982.67	131.66	2.74	20.37	99.12
1/7/2025 18:00	7.38	23698.67	143.05	3.65	20.13	80.97
1/7/2025 19:00	7.63	28513.67	146.78	4.73	20.54	81.96
1/7/2025 20:00	7.36	27687.33	147.56	5.33	20.33	88.08
1/7/2025 21:00	7.95	28946	152.10	4.52	21.42	102.67
1/7/2025 22:00	7.90	29215	150.91	3.54	21.24	106.06
1/7/2025 23:00	8.20	28324.75	149.90	2.51	21.94	122.82
2/7/2025 0:00	8.32	29554	157.66	2.99	21.98	117.45
2/7/2025 1:00	8.39	30377.67	159.02	4.13	22.18	112.33
2/7/2025 2:00	7.98	29942.33	161.19	4.98	21.32	99.00
2/7/2025 3:00	7.97	30098	154.47	3.49	21.36	105.54
2/7/2025 4:00	7.66	29135.67	146.31	2.00	20.90	97.28
2/7/2025 5:00	8.28	28582	147.56	1.50	22.20	114.14
2/7/2025 6:00	8.51	26398.33	140.60	0.87	23.00	162.55
2/7/2025 7:00	8.15	23409.18	144.82	0.38	21.95	126.54
2/7/2025 8:00	8.05	22167	152.52	0.36	21.73	122.16
2/7/2025 9:00	7.54	17578	141.14	0.51	21.13	112.51
2/7/2025 10:00	7.85	13797.67	145.92	0.36	21.33	113.71
2/7/2025 11:00	7.86	11216	142.78	0.25	21.37	112.78
2/7/2025 12:00	7.77	14248.33	141.71	0.30	21.30	123.25
2/7/2025 13:00	8.08	15018.33	146.96	0.48	21.85	120.67
2/7/2025 14:00	8.35	27498	142.22	1.17	22.45	131.02
2/7/2025 15:00	7.90	20687.33	131.38	0.97	21.36	105.86
2/7/2025 16:00	7.86	7913	139.21	1.30	21.32	100.04
2/7/2025 17:00	7.37	12305.67	140.26	2.53	20.41	88.12
2/7/2025 18:00	7.80	23447.33	139.45	2.77	21.13	105.76
2/7/2025 19:00	8.18	25166.56	141.27	1.77	21.95	112.82
2/7/2025 20:00	7.90	26172.33	143.94	2.99	21.65	101.85
2/7/2025 21:00	7.89	26382	143.75	3.22	21.29	100.61
2/7/2025 22:00	8.34	25921.33	152.43	3.35	22.02	107.89
2/7/2025 23:00	8.39	28150.67	153.34	3.32	22.25	125.61
3/7/2025 0:00	8.53	26245.67	151.60	3.34	22.37	131.25
3/7/2025 1:00	9.58	25425.9	160.59	2.68	24.57	153.70
3/7/2025 2:00	9.11	26258.33	152.23	1.81	23.96	153.61
3/7/2025 3:00	7.98	23735.33	145.17	1.06	21.61	120.21
3/7/2025 4:00	8.19	24194.33	146.61	0.83	21.95	119.29
3/7/2025 5:00	8.32	23804.33	147.68	0.57	22.30	130.83
3/7/2025 6:00	7.96	25331.67	141.31	1.31	21.56	112.73
3/7/2025 7:00	8.21	25683.67	147.37	1.49	21.86	103.11
3/7/2025 8:00	7.87	24785	149.42	1.57	21.22	106.79
3/7/2025 9:00	7.60	21686.33	150.20	1.57	21.09	98.93
3/7/2025 10:00	8.23	20118	147.03	0.25	22.04	121.59
3/7/2025 11:00	8.13	14913.11	134.02	0.14	21.75	125.10

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
3/7/2025 12:00	8.03	13579.33	143.00	0.18	21.55	112.53
3/7/2025 13:00	7.87	1868.67	137.39	0.24	21.50	136.90
3/7/2025 14:00	7.74	77.33	136.23	0.11	21.21	128.26
3/7/2025 15:00	7.48	70.33	122.53	0.44	21.39	160.58
3/7/2025 16:00	8.08	70	115.00	0.10	22.09	270.89
3/7/2025 17:00	7.93	37.33	65.97	1.69	22.29	642.32
3/7/2025 18:00	8.07	1095	77.85	0.15	22.34	624.07
3/7/2025 19:00	8.59	13213.67	121.96	0.00	22.66	197.60
3/7/2025 20:00	7.63	11783.67	112.80	0.70	20.97	298.81
3/7/2025 21:00	8.02	2456	143.36	4.10	21.78	119.89
3/7/2025 22:00	12.07	73.67	104.86	0.00	32.84	616.84
3/7/2025 23:00	11.51	19423.67	109.49	0.00	31.28	639.79
4/7/2025 0:00	11.38	21574.33	107.19	0.24	31.63	647.08
4/7/2025 1:00	7.68	407.33	147.04	2.99	20.94	83.20
4/7/2025 2:00	7.05	2430	144.99	4.68	19.94	70.89
4/7/2025 3:00	7.49	2016.07	147.25	4.21	20.46	81.39
4/7/2025 4:00	7.89	3525	151.61	4.93	21.11	84.33
4/7/2025 5:00	7.88	21358	155.83	5.94	21.10	79.12
4/7/2025 6:00	7.45	8421.33	149.45	5.47	20.49	80.06
4/7/2025 7:00	7.60	38	148.71	4.81	20.75	79.80
4/7/2025 8:00	8.30	52.33	153.10	4.63	22.07	91.70
4/7/2025 9:00	7.81	696.33	149.26	6.51	21.16	80.38
4/7/2025 10:00	7.36	414	144.99	6.01	20.13	73.98
4/7/2025 11:00	7.26	38	145.07	6.42	19.97	69.40
4/7/2025 12:00	7.34	38.03	142.08	5.09	20.12	80.44
4/7/2025 13:00	7.20	492.67	143.68	5.85	19.85	82.06
4/7/2025 14:00	7.14	28	144.04	7.76	19.77	74.91
4/7/2025 15:00	7.48	53.67	151.78	8.20	20.32	76.31
4/7/2025 16:00	7.25	33	149.33	8.81	19.89	77.51
4/7/2025 17:00	7.33	23.33	150.15	8.57	19.92	75.15
4/7/2025 18:00	7.04	29	142.39	7.47	19.56	72.92
4/7/2025 19:00	7.37	1083.33	143.07	4.98	20.22	92.78
4/7/2025 20:00	7.34	7838.67	124.96	2.89	20.32	153.36
4/7/2025 21:00	8.93	23305.9	86.68	1.25	24.49	648.09
4/7/2025 22:00	8.59	17343.33	108.42	1.01	24.18	421.31
4/7/2025 23:00	8.37	11458.67	124.42	0.29	23.00	179.53
5/7/2025 0:00	8.06	17689.33	133.87	0.01	21.78	108.65
5/7/2025 1:00	8.09	21718.33	129.95	0.06	21.97	131.81
5/7/2025 2:00	8.77	3177.67	144.94	0.24	23.08	139.00
5/7/2025 3:00	8.06	4715	147.24	1.04	21.60	104.96
5/7/2025 4:00	7.92	9637.67	146.94	1.15	21.33	109.64
5/7/2025 5:00	7.91	22311	141.82	1.00	21.39	111.40
5/7/2025 6:00	7.58	22747.67	136.41	1.04	20.94	116.73
5/7/2025 7:00	7.67	7202.3	135.58	0.93	20.98	106.10
5/7/2025 8:00	7.15	32.33	127.55	0.22	20.08	85.69
5/7/2025 9:00	6.36	29	118.26	0.55	19.14	76.68
5/7/2025 10:00	7.16	27	139.87	2.24	19.85	85.27
5/7/2025 11:00	7.04	368	138.99	2.38	19.61	85.96
5/7/2025 12:00	7.14	30.67	140.81	2.38	19.75	83.18
5/7/2025 13:00	7.20	25.33	144.16	3.85	19.76	73.84
5/7/2025 14:00	6.89	432.67	138.64	3.68	19.28	74.93
5/7/2025 15:00	7.67	25.67	142.82	2.40	20.85	98.68
5/7/2025 16:00	7.65	30	135.22	0.41	20.79	90.89
5/7/2025 17:00	8.34	27.67	150.46	2.45	21.94	91.69
5/7/2025 18:00	7.61	28	135.01	1.51	20.56	81.75
5/7/2025 19:00	7.91	27	145.92	2.57	21.03	81.32
5/7/2025 20:00	7.37	21.67	144.90	4.88	20.39	68.87
5/7/2025 21:00	7.67	29.33	151.25	5.75	20.74	81.55
5/7/2025 22:00	8.41	25.67	153.61	3.25	21.99	100.44
5/7/2025 23:00	8.10	25.42	152.13	4.33	21.52	89.69
6/7/2025 0:00	8.06	23.28	153.41	5.11	21.40	91.44
6/7/2025 1:00	7.72	23.67	159.81	8.01	20.81	71.29
6/7/2025 2:00	8.47	5545	138.34	1.47	22.50	114.13

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
6/7/2025 3:00	8.19	29	140.43	1.01	22.20	117.05
6/7/2025 4:00	7.82	26.33	159.01	5.00	21.33	79.45
6/7/2025 5:00	7.80	27	143.09	3.15	21.27	97.66
6/7/2025 6:00	7.93	27	140.53	2.15	21.33	90.25
6/7/2025 7:00	7.85	23.67	147.38	1.45	21.25	94.37
6/7/2025 8:00	7.94	27.33	155.80	3.02	21.29	94.57
6/7/2025 9:00	7.56	30	157.01	4.21	20.90	102.67
6/7/2025 10:00	7.25	26.33	137.01	4.32	20.12	65.96
6/7/2025 11:00	8.91	500.67	156.04	1.62	23.20	118.01
6/7/2025 12:00	8.17	22.67	159.14	4.09	21.68	92.17
6/7/2025 13:00	8.11	26	146.28	2.79	21.64	106.83
6/7/2025 14:00	8.26	27.87	150.20	1.57	21.93	105.22
6/7/2025 15:00	8.74	26.67	149.99	0.61	22.91	145.23
6/7/2025 16:00	8.15	26.67	159.63	2.57	21.54	112.94
6/7/2025 17:00	8.55	25.67	160.36	2.48	22.39	128.00
6/7/2025 18:00	8.23	32	145.49	0.65	22.12	142.09
6/7/2025 19:00	8.50	28	151.24	0.79	22.47	131.21
6/7/2025 20:00	8.05	26.33	147.44	1.32	21.90	117.16
6/7/2025 21:00	8.47	30.67	155.06	1.93	22.48	130.88
6/7/2025 22:00	9.04	20.67	160.01	2.03	23.64	149.39
6/7/2025 23:00	8.46	26	141.88	0.79	22.72	147.06
7/7/2025 0:00	8.55	27.33	147.02	0.73	22.59	122.10
7/7/2025 1:00	8.51	28	148.93	1.26	22.53	115.00
7/7/2025 2:00	8.35	30.33	152.92	2.30	22.14	112.65
7/7/2025 3:00	8.47	27.33	159.19	2.95	22.39	117.80
7/7/2025 4:00	8.45	26.33	164.35	3.96	22.37	123.50
7/7/2025 5:00	10.10	27.33	137.11	0.90	27.46	372.15
7/7/2025 6:00	8.61	23.33	139.86	0.76	22.99	183.15
7/7/2025 7:00	8.04	22.33	149.13	0.38	21.68	109.20
7/7/2025 8:00	8.51	28.52	153.58	0.41	22.71	136.79
7/7/2025 9:00	9.42	26.33	148.49	0.07	25.05	216.52
7/7/2025 10:00	8.47	31.33	139.63	0.18	22.48	149.68
7/7/2025 11:00	8.06	27.67	141.06	0.39	21.75	127.09
7/7/2025 12:00	8.13	33.67	135.57	0.13	21.78	136.79
7/7/2025 13:00	8.24	25.67	149.34	0.15	21.95	132.88
7/7/2025 14:00	8.11	25.67	143.25	0.46	21.69	116.87
7/7/2025 15:00	8.26	27.33	149.10	0.81	21.86	126.68
7/7/2025 16:00	8.10	23.33	154.20	0.99	21.61	128.78
7/7/2025 17:00	8.13	25.33	161.62	3.47	21.58	127.47
7/7/2025 18:00	8.41	23.33	164.28	3.84	22.11	133.04
7/7/2025 19:00	8.49	27.67	151.19	4.27	22.24	125.07
7/7/2025 20:00	8.15	27.67	153.33	4.56	21.93	121.76
7/7/2025 21:00	7.58	26	154.43	4.25	20.76	98.55
7/7/2025 22:00	7.60	27.67	149.97	2.81	21.18	115.59
7/7/2025 23:00	8.04	25.33	157.46	3.23	21.59	122.23
8/7/2025 0:00	7.99	26	160.26	3.13	21.57	128.81
8/7/2025 1:00	8.46	26.67	154.98	2.39	22.55	170.32
8/7/2025 2:00	8.13	28.85	157.11	3.45	21.72	136.63
8/7/2025 3:00	8.41	22.33	160.11	4.44	22.23	152.16
8/7/2025 4:00	8.13	28.2	161.79	3.98	21.70	133.81
8/7/2025 5:00	9.35	25.33	156.44	3.29	24.23	189.21
8/7/2025 6:00	10.19	23	120.73	0.78	27.57	578.76
8/7/2025 7:00	8.42	24.59	145.32	1.13	22.25	129.98
8/7/2025 8:00	9.07	23.67	150.98	1.02	23.93	153.29
8/7/2025 9:00	10.74	26.67	147.21	1.03	28.39	228.05
8/7/2025 10:00	8.19	23.33	158.89	4.40	22.00	107.46
8/7/2025 11:00	8.13	30.67	153.96	1.18	21.71	116.49
8/7/2025 12:00	7.90	28	148.48	0.66	21.26	119.02
8/7/2025 13:00	9.27	23.61	143.92	0.10	24.72	225.78
8/7/2025 14:00	9.25	21	140.41	0.36	25.47	321.87
8/7/2025 15:00	8.53	24.67	154.88	0.59	22.45	141.67
8/7/2025 16:00	8.76	30	158.53	0.34	22.98	155.59
8/7/2025 17:00	8.70	32	162.60	1.29	23.01	141.94

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
8/7/2025 18:00	8.07	26.33	160.62	1.93	21.66	122.58
8/7/2025 19:00	9.54	34	159.54	2.37	25.08	211.35
8/7/2025 20:00	10.24	23.67	164.95	0.90	26.70	219.63
8/7/2025 21:00	8.23	23.67	154.53	4.68	22.10	120.31
8/7/2025 22:00	9.93	27.67	156.61	2.48	26.03	206.97
8/7/2025 23:00	8.32	24	158.36	2.41	22.26	143.11
9/7/2025 0:00	8.31	26.67	156.33	1.76	22.03	140.16
9/7/2025 1:00	8.16	36	145.03	0.58	21.90	139.87
9/7/2025 2:00	8.25	30	152.54	0.08	22.22	144.10
9/7/2025 3:00	8.34	34.67	151.80	0.07	22.29	147.59
9/7/2025 4:00	9.15	27.33	140.80	0.03	24.03	213.34
9/7/2025 5:00	8.50	45.25	147.90	0.06	22.68	151.08
9/7/2025 6:00	8.02	45	139.46	0.01	21.81	119.59
9/7/2025 7:00	7.65	33.33	135.21	0.14	21.09	116.94
9/7/2025 8:00	8.22	28.33	151.38	0.27	22.16	124.90
9/7/2025 9:00	8.47	40.33	142.38	1.15	22.38	150.24
9/7/2025 10:00	8.02	38	142.85	0.04	21.57	124.85
9/7/2025 11:00	8.20	26.33	143.72	0.02	22.05	124.96
9/7/2025 12:00	8.37	30	140.81	0.10	22.24	133.38
9/7/2025 13:00	7.73	30.67	132.10	0.02	20.91	106.58
9/7/2025 14:00	8.00	32.33	134.38	0.01	21.85	170.09
9/7/2025 15:00	7.90	22.67	138.89	0.01	21.30	116.05
9/7/2025 16:00	7.64	32.33	140.86	0.27	21.23	132.32
9/7/2025 17:00	6.52	26.89	118.71	0.77	19.58	162.72
9/7/2025 18:00	6.46	25.33	81.52	1.20	20.35	240.81
9/7/2025 19:00	7.35	25.33	102.48	0.04	21.97	61.49
9/7/2025 20:00	4.16	18	64.50	2.19	16.91	206.91
9/7/2025 21:00	6.00	22.33	125.41	1.53	18.46	64.51
9/7/2025 22:00	6.88	25.67	139.01	1.35	20.42	51.56
9/7/2025 23:00	6.87	11135	130.78	1.51	20.07	76.45
10/7/2025 0:00	9.87	2784.67	144.08	0.28	25.74	133.24
10/7/2025 1:00	4.66	30.33	103.56	3.25	16.90	173.39
10/7/2025 2:00	4.20	20.67	76.97	2.85	15.65	142.77
10/7/2025 3:00	4.32	28.67	65.62	1.82	15.55	264.60
10/7/2025 4:00	4.07	21.33	76.60	1.05	16.19	247.71
10/7/2025 5:00	5.45	31.33	78.99	1.11	15.55	201.76
10/7/2025 6:00	4.79	21	95.00	0.60	16.85	174.96
10/7/2025 7:00	8.35	21.33	151.76	0.02	21.65	80.55
10/7/2025 8:00	7.71	26	127.94	0.19	20.84	122.76
10/7/2025 9:00	4.15	27.33	62.21	19.09	16.22	263.94
10/7/2025 10:00	4.25	21.33	50.21	26.26	14.72	81.29
10/7/2025 11:00	4.02	2403.67	70.73	0.55	17.49	280.41
10/7/2025 12:00	6.66	5076.33	112.39	0.07	20.37	96.45
10/7/2025 13:00	6.77	12573	133.86	1.46	19.51	78.57
10/7/2025 14:00	6.97	17728.33	142.34	1.46	19.89	87.39
10/7/2025 15:00	7.22	22613	141.90	1.68	20.68	96.35
10/7/2025 16:00	8.28	16283	152.18	3.69	21.92	100.32
10/7/2025 17:00	7.23	19229.67	129.33	0.71	20.24	94.16
10/7/2025 18:00	7.25	18485.57	132.28	0.02	20.43	95.28
10/7/2025 19:00	7.88	26935	136.57	0.01	21.45	124.42
10/7/2025 20:00	8.04	28319.33	154.04	0.80	21.78	117.43
10/7/2025 21:00	8.28	28454.67	154.55	0.86	22.16	119.37
10/7/2025 22:00	7.53	26018.33	149.34	1.64	20.64	93.66
10/7/2025 23:00	7.51	25844	154.58	3.88	20.45	86.59
11/7/2025 0:00	7.62	25856.72	147.91	1.00	20.90	101.02
11/7/2025 1:00	7.28	25086.33	152.99	2.78	20.14	84.79
11/7/2025 2:00	7.32	25000.33	152.23	3.34	20.18	86.32
11/7/2025 3:00	7.51	24254.43	158.57	4.15	20.42	87.09
11/7/2025 4:00	7.42	24638	149.27	1.61	20.42	96.35
11/7/2025 5:00	7.55	24275	141.58	0.19	20.88	103.72
11/7/2025 6:00	8.04	25535	145.11	0.03	21.81	117.97
11/7/2025 7:00	7.55	15906.67	143.76	0.03	20.79	105.72
11/7/2025 8:00	7.80	4603	145.91	0.09	21.44	114.94

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
11/7/2025 9:00	7.62	7953.33	144.50	0.08	21.01	112.63
11/7/2025 10:00	7.93	15069.67	146.00	0.03	21.31	115.37
11/7/2025 11:00	8.20	5439	149.17	0.02	21.80	127.91
11/7/2025 12:00	7.66	9055.67	149.62	0.18	20.79	105.82
11/7/2025 13:00	7.61	2941.97	137.59	0.02	20.82	105.22
11/7/2025 14:00	7.80	2404.67	140.43	0.02	21.12	115.31
11/7/2025 15:00	7.89	11083.67	136.58	0.02	21.45	129.41
11/7/2025 16:00	7.75	730.82	137.26	0.01	21.13	110.82
11/7/2025 17:00	7.65	3266.67	144.70	0.01	20.72	107.40
11/7/2025 18:00	7.36	19118.33	139.54	0.01	20.25	96.27
11/7/2025 19:00	7.28	21794.67	135.60	0.00	20.27	94.18
11/7/2025 20:00	6.98	22302.62	139.09	0.32	20.09	85.71
11/7/2025 21:00	7.10	22778	145.28	0.95	20.05	88.30
11/7/2025 22:00	7.25	20786.33	139.61	0.04	20.11	92.98
11/7/2025 23:00	7.50	7597	132.82	0.01	20.67	99.97
12/7/2025 0:00	7.98	22574.33	144.16	0.01	21.65	122.93
12/7/2025 1:00	7.86	22014.67	146.45	0.01	21.16	112.03
12/7/2025 2:00	7.50	24912.33	153.27	0.01	20.60	100.76
12/7/2025 3:00	7.74	26681	152.74	0.01	20.91	109.82
12/7/2025 4:00	7.92	26734	155.27	0.27	21.29	104.45
12/7/2025 5:00	7.94	24489.67	151.08	0.01	21.22	114.55
12/7/2025 6:00	7.90	22510.67	149.10	0.02	21.25	115.72
12/7/2025 7:00	7.66	21777.38	142.80	0.06	20.99	105.61
12/7/2025 8:00	7.81	17619.67	144.02	0.39	21.28	110.56
12/7/2025 9:00	8.00	8327.67	152.29	0.22	21.34	112.65
12/7/2025 10:00	7.56	4197.33	144.64	0.11	20.49	101.35
12/7/2025 11:00	7.51	25.33	138.21	0.02	20.46	102.46
12/7/2025 12:00	7.51	1232.33	132.79	0.02	20.58	102.82
12/7/2025 13:00	7.64	31.33	120.29	0.01	21.53	170.09
12/7/2025 14:00	7.16	1147.67	121.94	0.01	20.59	130.90
12/7/2025 15:00	7.13	1125.67	127.78	0.01	20.43	120.77
12/7/2025 16:00	7.47	20.67	146.72	0.01	20.42	97.93
12/7/2025 17:00	7.40	25	144.14	0.01	20.44	104.80
12/7/2025 18:00	7.56	2395	139.27	0.00	20.83	103.77
12/7/2025 19:00	7.54	26.67	123.16	0.01	21.31	180.98
12/7/2025 20:00	7.25	26	122.22	0.01	21.21	145.69
12/7/2025 21:00	8.11	26.33	136.21	0.01	22.00	136.04
12/7/2025 22:00	7.90	19.67	138.79	0.01	21.52	116.08
12/7/2025 23:00	7.92	21.36	152.05	0.01	21.37	101.34
13/07/2025 00:00	7.15	25	139.12	0.01	20.35	93.97
13/07/2025 01:00	7.40	26.33	138.50	0.01	20.54	98.68
13/07/2025 02:00	7.72	21.67	135.50	0.01	21.11	109.24
13/07/2025 03:00	7.88	31	142.16	0.01	21.44	113.02
13/07/2025 04:00	7.63	35.33	140.72	0.01	20.95	101.17
13/07/2025 05:00	7.88	33.67	143.62	0.01	21.43	110.70
13/07/2025 06:00	7.49	41.67	137.92	0.01	20.72	93.99
13/07/2025 07:00	7.32	34	131.52	0.01	20.46	97.83
13/07/2025 08:00	7.10	34.33	127.53	0.01	20.27	91.57
13/07/2025 09:00	7.78	24.33	129.86	0.02	21.39	108.72
13/07/2025 10:00	7.54	30.33	122.69	0.03	20.85	128.04
13/07/2025 11:00	7.68	29	116.27	0.02	21.35	192.25
13/07/2025 12:00	7.12	41.67	110.51	0.02	20.93	148.53
13/07/2025 13:00	6.96	28.33	103.16	0.02	20.73	237.14
13/07/2025 14:00	7.24	33	119.95	0.02	20.71	121.27
13/07/2025 15:00	7.24	24.92	127.77	0.02	20.72	118.05
13/07/2025 16:00	7.64	23.67	127.82	0.01	21.08	123.93
13/07/2025 17:00	7.34	25.9	122.35	0.01	20.72	132.04
13/07/2025 18:00	7.77	24.67	122.03	0.00	21.71	167.33
13/07/2025 19:00	7.98	27.67	119.67	0.00	22.39	205.94
13/07/2025 20:00	7.31	28	122.13	0.01	21.27	121.52
13/07/2025 21:00	7.73	23.33	124.41	0.01	21.38	159.04
13/07/2025 22:00	7.84	23.67	142.24	0.01	21.26	103.47
13/07/2025 23:00	8.01	20.67	154.31	0.01	21.46	101.83

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
14/07/2025 00:00	7.96	26	151.75	0.01	21.51	109.09
14/07/2025 01:00	8.09	29.67	148.40	0.01	21.62	117.23
14/07/2025 02:00	8.19	21	148.28	0.01	21.86	118.52
14/07/2025 03:00	8.10	23	155.98	0.01	21.61	117.69
14/07/2025 04:00	8.04	25.33	155.54	0.01	21.42	113.77
14/07/2025 05:00	8.49	28	153.59	0.01	22.39	146.88
14/07/2025 06:00	8.44	26	155.51	0.01	22.21	128.85
14/07/2025 07:00	10.97	24	136.51	0.02	29.47	389.94
14/07/2025 08:00	8.86	26	149.44	0.03	23.43	171.84
14/07/2025 09:00	7.85	28.67	138.72	0.03	21.52	128.00
14/07/2025 10:00	8.34	26.33	156.26	0.03	22.07	135.35
14/07/2025 11:00	8.41	27.87	155.97	0.03	21.87	129.52
14/07/2025 12:00	7.91	22.33	158.96	0.11	21.02	118.77
14/07/2025 13:00	7.41	24	144.99	0.01	20.21	101.05
14/07/2025 14:00	6.92	22	117.38	0.01	19.71	122.21
14/07/2025 15:00	7.26	26.33	123.94	0.01	20.31	132.99
14/07/2025 16:00	7.19	28.67	124.95	0.01	20.10	105.41
14/07/2025 17:00	7.49	23.67	135.93	0.01	20.63	112.35
14/07/2025 18:00	7.81	27.33	131.68	0.00	21.12	137.56
14/07/2025 19:00	7.94	29.67	145.17	0.00	21.42	136.29
14/07/2025 20:00	7.95	23.33	154.42	0.01	21.47	122.26
14/07/2025 21:00	9.76	28	156.96	0.01	25.50	199.28
14/07/2025 22:00	8.48	26.33	152.26	0.01	22.46	128.87
14/07/2025 23:00	7.80	29.33	146.85	0.01	21.04	106.69
15/07/2025 00:00	8.19	24	163.71	0.01	21.66	115.96
15/07/2025 01:00	8.07	25.33	164.45	0.05	21.46	106.33
15/07/2025 02:00	8.14	23.67	152.62	0.01	21.71	114.89
15/07/2025 03:00	8.34	25	144.98	0.01	22.17	128.27
15/07/2025 04:00	8.34	27.33	145.84	0.01	22.27	133.69
15/07/2025 05:00	8.13	24.84	145.25	0.01	21.75	128.85
15/07/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/07/2025 19:00	7.42	28.33	138.90	0.01	20.95	96.45
15/07/2025 20:00	7.86	27	144.04	0.00	21.55	123.45
15/07/2025 21:00	7.59	24.67	145.08	0.01	21.23	108.86
15/07/2025 22:00	8.29	25.67	135.62	0.01	22.57	137.47
15/07/2025 23:00	8.57	24	145.19	0.01	22.74	141.50
16/07/2025 00:00	7.89	22.95	152.34	0.01	21.41	109.12
16/07/2025 01:00	8.18	26	154.09	0.01	21.91	117.48
16/07/2025 02:00	8.33	28.33	147.94	0.01	22.29	129.10
16/07/2025 03:00	8.28	24.33	152.91	0.01	22.20	134.20
16/07/2025 04:00	7.37	25.33	135.52	0.01	20.86	101.53
16/07/2025 05:00	7.28	24.33	142.53	0.01	20.22	86.36
16/07/2025 06:00	7.95	28.33	154.79	0.01	21.43	111.11
16/07/2025 07:00	7.97	28.33	161.46	0.01	21.35	105.47
16/07/2025 08:00	7.46	29.33	157.08	0.02	20.84	102.65
16/07/2025 09:00	7.01	29.67	149.06	1.03	20.25	92.77
16/07/2025 10:00	7.65	26.67	146.36	0.07	20.93	111.49
16/07/2025 11:00	7.27	27.67	147.43	0.35	20.53	108.36
16/07/2025 12:00	7.43	28.33	162.80	1.03	20.28	100.15
16/07/2025 13:00	7.58	27.33	157.23	0.52	20.61	104.99
16/07/2025 14:00	7.43	26.33	148.94	0.47	20.82	136.55

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
16/07/2025 15:00	7.54	29.67	142.83	0.01	20.85	118.94
16/07/2025 16:00	7.43	372.33	144.63	0.01	21.16	116.47
16/07/2025 17:00	7.60	28	155.30	0.10	20.90	112.03
16/07/2025 18:00	7.84	1775.74	158.12	0.01	21.29	115.65
16/07/2025 19:00	8.09	4809	159.80	0.01	21.65	122.61
16/07/2025 20:00	7.91	22004.33	162.38	0.07	21.66	127.45
16/07/2025 21:00	8.07	21241	160.59	0.52	21.64	121.74
16/07/2025 22:00	8.16	9473.44	164.26	0.99	21.69	119.88
16/07/2025 23:00	8.09	4641.67	162.39	1.43	21.65	122.84
17/07/2025 00:00	7.72	8507.67	164.97	3.39	20.91	101.87
17/07/2025 01:00	9.32	6453	159.16	0.12	24.82	217.57
17/07/2025 02:00	10.12	21669	140.70	0.03	27.99	428.86
17/07/2025 03:00	7.85	22798.33	150.57	0.06	21.49	120.01
17/07/2025 04:00	7.42	12684.33	163.97	0.42	20.52	104.10
17/07/2025 05:00	7.42	4542	163.24	0.09	20.57	101.84
17/07/2025 06:00	7.64	29	157.03	0.01	21.04	102.69
17/07/2025 07:00	7.90	28	143.25	0.01	21.31	140.50
17/07/2025 08:00	8.14	31.33	138.96	0.03	21.86	142.39
17/07/2025 09:00	7.16	25.33	141.08	0.03	20.63	111.10
17/07/2025 10:00	8.13	719.33	145.93	0.03	22.05	153.47
17/07/2025 11:00	8.29	1054.67	150.47	0.03	22.18	134.85
17/07/2025 12:00	8.06	3208.67	147.97	0.02	21.65	122.97
17/07/2025 13:00	7.75	4897.7	141.39	0.02	21.05	113.93
17/07/2025 14:00	7.57	15335.67	141.16	0.01	20.87	121.75
17/07/2025 15:00	7.54	20070.67	138.83	0.01	20.79	98.21
17/07/2025 16:00	6.94	369	138.79	0.01	19.69	79.02
17/07/2025 17:00	7.35	10256.33	149.39	0.02	20.29	89.84
17/07/2025 18:00	7.39	19395	158.45	0.17	20.22	88.36
17/07/2025 19:00	7.64	21439	161.20	0.01	20.75	99.17
17/07/2025 20:00	7.44	22115.67	157.57	0.15	20.69	97.34
17/07/2025 21:00	7.60	6453.77	151.41	0.32	20.83	98.87
17/07/2025 22:00	7.78	31	154.40	0.01	21.17	105.08
17/07/2025 23:00	7.79	20	157.27	0.22	21.14	105.68
18/07/2025 00:00	7.62	16	159.00	0.15	20.83	101.00
18/07/2025 01:00	7.91	25	160.69	0.03	21.42	102.84
18/07/2025 02:00	8.06	21.33	163.95	0.12	21.50	99.53
18/07/2025 03:00	7.91	22.33	160.15	0.24	21.32	96.49
18/07/2025 04:00	8.01	22.95	151.08	0.62	21.73	122.69
18/07/2025 05:00	7.43	27.67	161.19	0.99	20.40	89.47
18/07/2025 06:00	8.14	25.67	163.89	0.21	21.71	109.08
18/07/2025 07:00	7.63	38	162.75	0.58	20.75	96.36
18/07/2025 08:00	7.35	21.67	159.00	1.17	20.66	94.96
18/07/2025 09:00	8.13	30.67	164.61	0.77	21.72	113.71
18/07/2025 10:00	8.16	22.3	161.84	0.09	21.59	113.86
18/07/2025 11:00	7.85	26.33	160.97	0.18	21.05	104.30
18/07/2025 12:00	7.27	35	139.99	0.03	20.40	109.57
18/07/2025 13:00	6.87	31.33	145.77	0.02	19.70	86.92
18/07/2025 14:00	6.80	28.67	138.76	0.02	19.73	87.22
18/07/2025 15:00	6.77	24.67	129.42	0.02	19.53	85.93
18/07/2025 16:00	6.81	29.33	134.53	0.02	19.54	82.17
18/07/2025 17:00	7.43	335.41	141.59	0.01	20.58	98.25
18/07/2025 18:00	7.50	27.67	138.47	0.01	21.06	118.94
18/07/2025 19:00	7.75	26.33	150.45	0.01	21.31	99.95
18/07/2025 20:00	7.67	24.92	154.43	0.01	21.10	97.13
18/07/2025 21:00	7.98	27	162.24	0.12	21.52	104.13
18/07/2025 22:00	8.44	27	164.82	0.02	22.36	125.97
18/07/2025 23:00	8.20	29.67	163.96	0.05	21.76	119.04
19/07/2025 00:00	8.03	26	160.63	0.28	21.62	108.61
19/07/2025 01:00	8.08	23.33	162.45	0.03	21.70	110.28
19/07/2025 02:00	8.02	25.67	157.15	0.10	21.59	106.11
19/07/2025 03:00	7.91	29	160.78	0.07	21.31	104.56
19/07/2025 04:00	8.68	24	163.74	0.03	22.80	129.46
19/07/2025 05:00	8.60	21.33	163.70	0.53	22.77	133.65

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
19/07/2025 06:00	7.81	26	162.35	0.20	21.21	110.02
19/07/2025 07:00	7.92	28.67	164.64	0.15	21.37	110.85
19/07/2025 08:00	7.31	21.67	164.64	1.70	20.54	89.60
19/07/2025 09:00	7.77	27	164.73	1.45	21.04	109.03
19/07/2025 10:00	8.25	28.33	161.32	0.04	21.88	125.11
19/07/2025 11:00	7.83	29	161.75	0.30	21.20	108.28
19/07/2025 12:00	8.01	27.33	163.66	1.03	21.22	99.61
19/07/2025 13:00	8.49	28.67	164.48	2.63	22.12	102.84
19/07/2025 14:00	9.75	25	163.75	0.88	25.51	177.05
19/07/2025 15:00	7.73	30.67	156.93	0.92	20.95	102.74
19/07/2025 16:00	8.37	25.57	160.36	0.05	21.78	122.57
19/07/2025 17:00	8.02	24.33	157.37	0.05	21.22	109.12
19/07/2025 18:00	7.74	26.33	148.97	0.01	21.25	123.92
19/07/2025 19:00	7.81	27.67	154.22	0.01	21.13	99.45
19/07/2025 20:00	7.17	26	154.33	0.07	20.40	82.18
19/07/2025 21:00	7.80	29	161.60	0.26	21.19	93.49
19/07/2025 22:00	8.06	29	163.16	0.17	21.64	110.92
19/07/2025 23:00	7.99	29	162.36	0.15	21.61	104.49
20/07/2025 00:00	7.20	27.67	160.07	0.41	20.26	84.73
20/07/2025 01:00	7.98	26	160.13	0.03	21.69	110.73
20/07/2025 02:00	7.75	24	160.00	0.47	21.12	106.81
20/07/2025 03:00	9.45	27	161.75	0.02	24.49	188.23
20/07/2025 04:00	8.43	26.67	159.05	0.32	22.79	140.53
20/07/2025 05:00	7.66	25.33	162.67	0.47	20.79	99.36
20/07/2025 06:00	7.64	23.61	161.79	0.16	20.71	98.05
20/07/2025 07:00	9.65	26.67	162.09	0.01	25.30	168.55
20/07/2025 08:00	8.64	27.67	162.51	0.03	23.10	127.03
20/07/2025 09:00	7.86	28.33	162.30	1.14	21.06	99.81
20/07/2025 10:00	8.36	25.67	164.32	0.58	21.83	113.68
20/07/2025 11:00	7.83	21.33	164.75	2.44	20.89	97.82
20/07/2025 12:00	8.30	27.33	164.46	1.75	21.88	120.13
20/07/2025 13:00	8.12	28.33	163.08	0.51	21.72	111.38
20/07/2025 14:00	7.62	26	161.51	0.28	20.90	105.66
20/07/2025 15:00	7.58	26.33	162.66	0.09	20.64	96.12
20/07/2025 16:00	7.84	60.33	164.04	0.32	21.22	102.32
20/07/2025 17:00	8.41	133.67	164.12	0.15	22.71	123.85
20/07/2025 18:00	7.48	149	164.37	0.22	20.83	92.02
20/07/2025 19:00	7.73	113.33	161.46	0.03	21.40	103.90
20/07/2025 20:00	7.37	163.33	150.27	0.02	21.21	98.28
20/07/2025 21:00	7.85	100.67	154.70	0.03	21.70	101.99
20/07/2025 22:00	7.53	91.67	157.21	0.01	20.94	96.55
20/07/2025 23:00	7.87	61.33	163.48	0.01	21.26	99.93
21/07/2025 00:00	8.28	77.33	161.13	0.01	22.01	112.43
21/07/2025 01:00	7.56	62.67	159.85	0.05	20.78	93.19
21/07/2025 02:00	7.58	71	161.54	0.21	20.67	94.98
21/07/2025 03:00	7.87	62.67	164.38	0.03	21.16	103.62
21/07/2025 04:00	7.54	82	163.15	0.25	20.71	95.23
21/07/2025 05:00	8.37	59.33	164.60	0.28	22.19	111.14
21/07/2025 06:00	7.99	62.62	163.65	0.42	21.52	109.22
21/07/2025 07:00	7.48	45.57	164.00	0.92	20.52	93.93
21/07/2025 08:00	7.68	56	163.93	0.56	20.99	108.54
21/07/2025 09:00	7.55	47	164.50	0.97	20.97	97.68
21/07/2025 10:00	7.42	50.33	162.16	1.30	20.43	96.39
21/07/2025 11:00	7.60	60	160.07	0.04	20.77	97.28
21/07/2025 12:00	8.10	85	159.54	0.03	21.60	109.95
21/07/2025 13:00	8.41	39.67	162.79	0.52	22.13	123.19
21/07/2025 14:00	8.03	55	164.80	0.90	21.26	105.38
21/07/2025 15:00	8.59	60	164.27	1.24	22.37	126.20
21/07/2025 16:00	7.81	80	159.74	1.21	21.03	108.70
21/07/2025 17:00	7.59	47	161.89	1.84	20.50	91.62
21/07/2025 18:00	8.00	96.67	163.58	1.52	21.29	99.18
21/07/2025 19:00	7.35	60	158.46	1.43	20.70	90.59
21/07/2025 20:00	7.55	71.48	162.06	2.59	21.01	91.72

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
21/07/2025 21:00	7.82	71.33	161.58	0.52	21.22	108.00
21/07/2025 22:00	8.35	72	164.08	0.27	22.25	127.97
21/07/2025 23:00	7.96	87.33	164.97	0.89	21.35	111.26
22/07/2025 00:00	7.75	61.31	164.90	1.92	21.00	97.38
22/07/2025 01:00	7.89	76	164.22	2.65	21.63	104.33
22/07/2025 02:00	8.24	46.67	164.74	2.46	22.11	116.88
22/07/2025 03:00	7.72	28.85	164.53	4.63	21.09	93.44
22/07/2025 04:00	7.90	68.67	164.08	3.80	21.62	106.92
22/07/2025 05:00	7.94	72	163.18	0.87	21.50	110.39
22/07/2025 06:00	7.95	60.33	160.30	0.12	21.51	111.29
22/07/2025 07:00	8.33	37	164.60	0.33	22.05	115.75
22/07/2025 08:00	9.70	30.33	164.49	0.26	24.92	166.07
22/07/2025 09:00	7.78	39.33	159.18	0.38	21.39	111.87
22/07/2025 10:00	8.32	29.33	154.20	0.23	22.27	152.04
22/07/2025 11:00	8.52	21.67	162.97	0.06	22.44	141.99
22/07/2025 12:00	9.06	50.67	164.56	0.03	23.67	173.60
22/07/2025 13:00	7.30	39	164.34	0.20	20.30	85.93
22/07/2025 14:00	7.91	30	164.63	0.38	21.19	113.70
22/07/2025 15:00	7.77	24.33	163.09	0.11	20.87	104.56
22/07/2025 16:00	7.67	23	161.60	0.02	20.83	104.03
22/07/2025 17:00	7.64	27	158.07	0.02	20.97	106.09
22/07/2025 18:00	8.11	27	157.99	0.01	22.01	131.77
22/07/2025 19:00	7.97	24.33	161.67	0.00	21.37	111.45
22/07/2025 20:00	7.65	24.33	152.08	0.01	21.28	109.50
22/07/2025 21:00	7.71	22.33	161.26	0.01	21.40	107.25
22/07/2025 22:00	7.77	24.33	163.83	0.09	20.96	96.41
22/07/2025 23:00	7.82	20.33	162.02	0.01	21.41	114.24
23/07/2025 00:00	7.99	19.67	163.08	0.15	21.51	106.51
23/07/2025 01:00	7.79	23.33	163.70	0.24	21.40	113.23
23/07/2025 02:00	7.66	19.67	160.02	0.03	21.54	113.94
23/07/2025 03:00	8.04	18	161.14	0.01	21.88	128.43
23/07/2025 04:00	7.80	21.33	160.08	0.01	21.40	126.10
23/07/2025 05:00	7.68	24.67	162.98	0.01	22.46	116.40
23/07/2025 06:00	7.68	19	164.53	0.01	21.36	109.34
23/07/2025 07:00	7.75	17.33	162.60	0.02	21.16	110.20
23/07/2025 08:00	8.63	27.67	164.42	0.15	22.64	133.30
23/07/2025 09:00	7.91	22	161.03	1.29	21.82	119.42
23/07/2025 10:00	8.49	20.33	161.10	0.32	22.30	139.79
23/07/2025 11:00	7.84	19.67	160.32	0.30	21.27	120.70
23/07/2025 12:00	7.89	22	159.80	0.03	21.39	122.01
23/07/2025 13:00	8.07	21.67	162.67	0.04	21.65	121.47
23/07/2025 14:00	8.00	22.67	163.31	0.06	21.53	126.83
23/07/2025 15:00	7.87	24.59	162.06	0.11	21.20	122.13
23/07/2025 16:00	8.66	27.21	158.67	0.01	22.59	140.04
23/07/2025 17:00	8.27	25.25	157.14	0.29	23.01	123.89
23/07/2025 18:00	8.17	25.67	161.99	0.00	21.69	122.86
23/07/2025 19:00	7.98	23.33	164.30	0.02	21.31	109.47
23/07/2025 20:00	7.38	26.33	158.41	0.66	20.92	107.16
23/07/2025 21:00	5.90	23.93	152.77	3.46	18.64	79.46
23/07/2025 22:00	8.21	22	164.08	0.18	21.79	122.64
23/07/2025 23:00	7.79	23.33	164.27	0.51	20.98	108.96
24/07/2025 00:00	7.63	19.67	156.60	0.36	20.70	101.51
24/07/2025 01:00	7.64	22.33	159.96	1.41	20.71	99.75
24/07/2025 02:00	8.02	21.67	159.35	1.92	21.60	113.74
24/07/2025 03:00	7.83	20.98	159.90	1.65	21.29	104.84
24/07/2025 04:00	8.20	21.33	158.23	1.24	21.87	112.08
24/07/2025 05:00	8.50	22.62	162.99	0.93	22.53	127.24
24/07/2025 06:00	9.19	19.33	154.81	0.17	24.39	211.60
24/07/2025 07:00	7.78	22.33	164.22	1.19	20.99	107.92
24/07/2025 08:00	8.54	26	160.92	0.12	22.32	129.24
24/07/2025 09:00	7.88	27.33	160.05	0.60	21.69	130.05
24/07/2025 10:00	8.10	21.31	143.80	0.26	21.61	130.68
24/07/2025 11:00	8.09	20.33	161.49	0.07	21.74	124.27

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
24/07/2025 12:00	7.85	24	163.30	0.05	21.19	113.78
24/07/2025 13:00	8.07	26.33	161.07	0.04	21.51	116.87
24/07/2025 14:00	7.63	22.33	161.76	0.06	20.73	113.00
24/07/2025 15:00	8.17	25.67	163.51	0.03	21.74	130.91
24/07/2025 16:00	8.02	25	162.34	0.02	21.38	131.18
24/07/2025 17:00	7.82	25.67	152.74	0.02	21.21	127.32
24/07/2025 18:00	8.04	28.67	162.45	0.01	21.60	129.25
24/07/2025 19:00	8.19	27.33	159.38	0.01	21.88	135.26
24/07/2025 20:00	7.51	24.67	146.12	0.01	20.72	103.11
24/07/2025 21:00	8.01	26.67	160.26	0.02	21.34	109.53
24/07/2025 22:00	7.80	28.33	155.46	0.02	21.05	113.47
24/07/2025 23:00	8.29	23.73	158.88	0.01	21.91	135.41
25/07/2025 00:00	8.69	22.67	164.45	0.01	22.66	166.08
25/07/2025 01:00	8.72	24.33	160.76	0.02	23.08	165.44
25/07/2025 02:00	8.41	27.67	160.65	0.01	22.26	138.69
25/07/2025 03:00	7.97	23.67	157.68	0.01	21.36	119.23
25/07/2025 04:00	8.06	22.33	161.84	0.01	21.58	114.35
25/07/2025 05:00	7.52	22	159.45	0.01	20.56	106.84
25/07/2025 06:00	8.49	21.31	161.95	0.01	22.33	144.09
25/07/2025 07:00	8.43	23.33	164.43	0.02	22.23	129.25
25/07/2025 08:00	8.15	27.67	162.90	0.03	22.35	118.45
25/07/2025 09:00	8.30	22	161.98	0.05	21.93	114.55
25/07/2025 10:00	8.03	22	160.29	0.03	21.27	104.75
25/07/2025 11:00	8.27	25.33	161.94	0.03	21.80	116.93
25/07/2025 12:00	9.44	27	161.26	0.02	24.27	161.90
25/07/2025 13:00	9.02	27.33	162.76	0.02	23.43	141.78
25/07/2025 14:00	10.63	30	164.96	0.00	28.72	251.03
25/07/2025 15:00	10.72	24.33	163.07	0.03	28.26	353.86
25/07/2025 16:00	10.74	21	160.62	0.04	27.72	239.22
25/07/2025 17:00	8.38	22.67	164.76	0.02	22.22	129.53
25/07/2025 18:00	7.97	24.67	159.04	0.01	21.78	117.87
25/07/2025 19:00	8.25	21.97	162.04	0.01	21.75	125.82
25/07/2025 20:00	9.60	24	153.48	0.01	24.92	201.35
25/07/2025 21:00	8.86	24.67	158.50	0.06	24.15	189.49
25/07/2025 22:00	8.32	23.61	163.91	0.05	22.12	145.87
25/07/2025 23:00	7.55	21.67	162.82	0.01	20.70	119.51
26/07/2025 00:00	7.83	20.66	160.65	0.01	21.15	121.66
26/07/2025 01:00	8.11	20.33	158.75	0.01	21.63	132.79
26/07/2025 02:00	7.94	23	163.18	0.02	21.30	121.63
26/07/2025 03:00	7.88	23.33	163.99	0.12	21.30	121.58
26/07/2025 04:00	8.24	22	164.45	0.53	22.02	125.00
26/07/2025 05:00	7.79	23	164.09	2.01	21.10	109.90
26/07/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
26/07/2025 19:00	7.56	18.33	162.13	1.48	20.55	88.32
26/07/2025 20:00	7.46	24.33	160.88	4.59	20.73	79.66
26/07/2025 21:00	7.83	27	164.74	6.42	21.40	77.53
26/07/2025 22:00	7.62	24	164.23	3.04	20.84	84.96
26/07/2025 23:00	7.66	22.95	164.26	5.15	20.76	72.40
27/07/2025 00:00	7.73	21	164.23	6.53	21.37	77.00
27/07/2025 01:00	7.61	20.67	162.81	7.44	20.98	75.62
27/07/2025 02:00	7.65	21.67	162.99	12.05	20.91	71.48

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
27/07/2025 03:00	8.13	21	163.13	10.18	21.91	92.09
27/07/2025 04:00	8.08	22	164.17	13.04	22.62	85.36
27/07/2025 05:00	7.89	27.33	164.14	13.30	21.38	73.32
27/07/2025 06:00	7.81	24.33	164.42	5.27	21.23	81.91
27/07/2025 07:00	7.56	21.33	162.96	7.83	20.95	81.35
27/07/2025 08:00	6.90	20.66	163.78	9.30	21.16	69.45
27/07/2025 09:00	7.63	21.67	164.73	5.61	20.69	81.09
27/07/2025 10:00	7.55	22.33	164.69	7.78	20.48	74.32
27/07/2025 11:00	7.87	20.66	162.56	2.44	21.13	94.92
27/07/2025 12:00	7.72	26.33	155.30	0.16	20.95	90.17
27/07/2025 13:00	7.90	27.33	164.77	2.78	20.84	78.64
27/07/2025 14:00	7.86	22.67	164.39	3.10	20.96	92.06
27/07/2025 15:00	7.26	22.33	151.27	0.70	20.02	79.06
27/07/2025 16:00	7.43	23	151.81	0.06	20.52	85.01
27/07/2025 17:00	7.46	22.33	159.06	0.01	20.63	90.16
27/07/2025 18:00	7.60	24	163.66	0.01	20.86	86.26
27/07/2025 19:00	7.23	21	153.76	0.01	20.38	81.56
27/07/2025 20:00	7.36	22.33	157.97	0.00	20.78	81.66
27/07/2025 21:00	7.10	19.02	160.48	0.78	20.15	72.69
27/07/2025 22:00	7.26	20.67	162.16	1.04	20.28	81.53
27/07/2025 23:00	7.46	16.67	164.72	0.92	20.67	82.34
28/07/2025 00:00	8.73	19.33	164.90	0.69	22.83	110.78
28/07/2025 01:00	9.57	20.98	164.20	0.99	24.83	125.20
28/07/2025 02:00	7.94	15	163.38	0.46	21.28	100.70
28/07/2025 03:00	8.26	16.33	160.10	0.25	21.90	113.04
28/07/2025 04:00	10.30	18.33	154.74	0.01	26.70	250.83
28/07/2025 05:00	8.31	18	164.61	0.45	21.86	109.40
28/07/2025 06:00	7.76	21	164.75	2.33	20.86	92.18
28/07/2025 07:00	8.98	21.33	164.74	0.83	23.08	122.30
28/07/2025 08:00	7.85	24.67	159.01	2.16	21.23	105.07
28/07/2025 09:00	8.91	23.33	164.88	2.87	23.06	127.43
28/07/2025 10:00	8.60	22.67	161.03	0.21	22.84	150.06
28/07/2025 11:00	8.29	23.28	164.46	1.61	21.72	120.02
28/07/2025 12:00	7.66	21.67	164.26	0.39	20.69	108.96
28/07/2025 13:00	7.58	22.33	164.06	1.96	20.47	100.22
28/07/2025 14:00	7.83	22.67	164.96	2.05	21.07	111.79
28/07/2025 15:00	7.75	23	163.12	4.32	20.72	107.82
28/07/2025 16:00	8.29	23	163.53	5.72	21.60	118.01
28/07/2025 17:00	7.56	21	164.48	7.85	20.47	109.67
28/07/2025 18:00	7.61	20.33	163.88	4.80	20.48	105.15
28/07/2025 19:00	7.48	24.92	164.43	3.00	20.45	100.37
28/07/2025 20:00	7.38	24.33	159.67	2.18	20.72	100.91
28/07/2025 21:00	8.04	21.33	161.91	1.74	21.55	116.49
28/07/2025 22:00	7.68	22.33	161.06	0.67	20.84	110.04
28/07/2025 23:00	7.73	16.67	164.24	0.90	20.93	110.35
29/07/2025 00:00	8.45	20	164.21	0.32	22.25	127.36
29/07/2025 01:00	8.29	22	164.82	0.98	21.88	118.76
29/07/2025 02:00	8.50	19.33	163.34	0.31	22.35	132.19
29/07/2025 03:00	9.00	19.67	164.26	1.11	23.57	141.77
29/07/2025 04:00	9.38	20.67	164.65	0.05	24.29	158.39
29/07/2025 05:00	8.81	21.33	164.30	1.83	23.05	132.19
29/07/2025 06:00	7.75	20.33	164.64	2.13	21.11	107.10
29/07/2025 07:00	7.49	18.33	164.75	1.04	20.55	94.41
29/07/2025 08:00	6.90	24	164.12	5.38	19.75	78.28
29/07/2025 09:00	7.25	23.61	164.00	4.28	20.09	87.78
29/07/2025 10:00	7.13	16.33	162.68	0.97	19.89	91.43
29/07/2025 11:00	6.90	22.33	150.28	0.13	19.56	82.24
29/07/2025 12:00	7.37	23.33	158.23	0.02	20.42	106.88
29/07/2025 13:00	7.06	24.67	149.40	0.24	19.77	84.30
29/07/2025 14:00	7.15	22	152.65	0.11	19.91	80.41
29/07/2025 15:00	7.53	22.3	158.24	0.02	20.60	101.56
29/07/2025 16:00	7.52	22	159.52	0.18	20.41	86.04
29/07/2025 17:00	7.83	24	164.44	0.33	21.01	105.02

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
29/07/2025 18:00	8.40	24.67	164.96	0.06	22.18	125.89
29/07/2025 19:00	8.01	23	160.51	0.01	21.62	128.03
29/07/2025 20:00	7.88	20.33	161.55	0.02	21.27	120.02
29/07/2025 21:00	7.44	21.64	161.11	0.42	20.76	95.67
29/07/2025 22:00	8.04	21	159.05	0.05	21.52	119.34
29/07/2025 23:00	7.85	20.33	158.61	0.01	21.08	111.13
30/07/2025 00:00	8.34	23.33	147.34	0.01	22.00	122.73
30/07/2025 01:00	8.37	20.33	154.09	0.01	22.21	135.46
30/07/2025 02:00	8.04	20.33	160.04	0.01	21.63	128.03
30/07/2025 03:00	8.21	18.33	162.83	0.02	21.99	131.39
30/07/2025 04:00	8.11	21	161.42	0.01	21.78	131.14
30/07/2025 05:00	8.04	19.33	162.44	0.01	21.58	126.33
30/07/2025 06:00	8.15	19.34	163.36	0.04	21.83	132.18
30/07/2025 07:00	8.83	22	162.02	0.02	23.23	164.58
30/07/2025 08:00	8.91	20.33	160.46	0.03	23.92	172.53
30/07/2025 09:00	7.96	21	162.70	0.60	21.35	105.15
30/07/2025 10:00	8.08	22	161.61	0.04	21.67	121.38
30/07/2025 11:00	7.81	23	162.70	0.03	21.26	115.81
30/07/2025 12:00	7.91	24.33	162.75	0.01	21.22	120.12
30/07/2025 13:00	7.90	24	164.10	0.03	21.19	111.32
30/07/2025 14:00	7.52	23.67	162.76	0.02	20.56	94.90
30/07/2025 15:00	7.87	21.67	164.97	0.02	21.10	110.09
30/07/2025 16:00	7.63	22	164.86	0.02	20.72	111.18
30/07/2025 17:00	7.59	22.33	161.50	0.02	20.68	96.81
30/07/2025 18:00	7.66	23.61	161.62	0.01	20.71	96.83
30/07/2025 19:00	7.38	18	161.61	0.01	20.27	97.31
30/07/2025 20:00	7.92	22.67	161.01	0.01	21.45	113.78
30/07/2025 21:00	7.30	21.33	151.34	0.01	20.79	104.99
30/07/2025 22:00	7.67	21	155.14	0.01	21.43	124.47
30/07/2025 23:00	7.82	22	160.39	0.01	21.09	111.35
31/07/2025 00:00	7.89	20.98	164.52	0.01	21.11	105.10
31/07/2025 01:00	7.93	19.67	164.61	0.01	21.32	117.07
31/07/2025 02:00	7.88	19	163.10	0.01	21.33	128.39
31/07/2025 03:00	7.85	19.33	162.98	0.01	21.37	131.15
31/07/2025 04:00	8.26	21.33	157.99	0.01	22.00	136.01
31/07/2025 05:00	7.95	20	157.87	0.01	21.55	134.09
31/07/2025 06:00	8.11	21	158.52	0.01	21.79	137.75
31/07/2025 07:00	8.33	24	164.81	0.02	22.01	129.00
31/07/2025 08:00	8.38	25.67	160.86	0.03	22.64	159.94
31/07/2025 09:00	8.37	23	163.56	0.03	22.23	142.55
31/07/2025 10:00	8.39	22	162.33	0.03	22.15	139.33
31/07/2025 11:00	8.64	24	164.53	0.02	22.47	149.47
31/07/2025 12:00	8.19	26	164.12	0.02	21.76	149.66
31/07/2025 13:00	7.82	27.67	164.98	0.02	21.15	132.10
31/07/2025 14:00	7.75	21.33	162.27	0.02	21.17	127.64
31/07/2025 15:00	7.70	17.67	161.33	0.02	21.05	119.44
31/07/2025 16:00	7.86	22	157.83	0.01	21.29	116.01
31/07/2025 17:00	8.37	23.33	161.36	0.01	22.15	132.01
31/07/2025 18:00	7.55	21	159.99	0.01	20.54	83.94
31/07/2025 19:00	9.16	22.33	156.01	0.00	24.08	127.46
31/07/2025 20:00	11.17	18.33	154.80	0.01	28.88	202.13
31/07/2025 21:00	11.15	22.67	150.67	0.01	28.78	216.56
31/07/2025 22:00	6.20	26.33	126.88	0.01	20.86	65.97
31/07/2025 23:00	7.73	21.36	144.06	0.01	21.39	86.58
Minimum	4.02	15.00	50.21	0.00	14.72	51.56
Maximum	12.07	32.601.00	164.98	26.26	32.84	648.09
Avg	7.91	3,987.50	150.32	1.23	21.51	124.29
SUM						
STD			STD = 171.4 , 329	STD = 53.49 , 60	STD = 85.73 , 120	STD = - , 680

Site Name: GULF_GCG
Stack Name: Boiler
Periodically: 01/8/2025 00:00-31/8/2025 23:59

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
1/8/2025 0:00	7.54	21.67	152.33	0.01	20.75	98.55
1/8/2025 1:00	7.99	18	156.31	0.00	21.47	122.60
1/8/2025 2:00	7.01	20.33	149.63	0.00	19.71	67.82
1/8/2025 3:00	6.98	20.33	157.23	0.20	19.80	65.82
1/8/2025 4:00	7.12	19.67	157.58	0.01	19.96	78.48
1/8/2025 5:00	7.44	19.67	160.07	0.01	20.55	87.98
1/8/2025 6:00	7.33	20	157.85	0.01	20.45	87.82
1/8/2025 7:00	7.74	22.62	163.05	0.01	21.04	99.29
1/8/2025 8:00	7.86	22	164.99	0.01	21.11	102.98
1/8/2025 9:00	8.76	21.67	164.94	0.01	23.33	136.93
1/8/2025 10:00	9.84	21.33	161.89	0.01	26.79	298.27
1/8/2025 11:00	7.19	18.33	160.33	0.03	19.96	85.80
1/8/2025 12:00	7.35	24.33	162.96	0.31	20.26	94.38
1/8/2025 13:00	7.29	26	158.79	0.07	20.03	92.25
1/8/2025 14:00	7.46	20.33	160.24	0.04	20.37	95.53
1/8/2025 15:00	7.5	25.33	158.28	0.03	20.71	101.11
1/8/2025 16:00	7.27	23.67	158.96	0.21	20.13	94.75
1/8/2025 17:00	7.46	18.03	161.19	0.05	20.46	99.37
1/8/2025 18:00	7.18	21.67	152.62	0.49	20.00	85.88
1/8/2025 19:00	7.28	20.67	146.59	0.55	20.35	89.61
1/8/2025 20:00	7.34	22.67	154.15	0.24	20.50	92.00
1/8/2025 21:00	8.35	25.67	156.36	0.09	22.08	124.20
1/8/2025 22:00	7.17	20.33	157.99	0.28	20.44	82.76
1/8/2025 23:00	7.26	23	156.70	1.28	19.99	72.10
2/8/2025 0:00	6.69	21	153.73	2.15	19.25	63.10
2/8/2025 1:00	7	23.67	154.93	1.37	19.81	73.36
2/8/2025 2:00	9.11	22.62	142.34	0.01	24.32	191.68
2/8/2025 3:00	8.2	24.92	138.67	0.01	22.46	170.75
2/8/2025 4:00	7.43	25.33	159.08	0.01	20.87	107.94
2/8/2025 5:00	7.8	23.33	163.02	0.02	21.50	114.78
2/8/2025 6:00	7.91	21	164.26	0.01	21.68	116.14
2/8/2025 7:00	8.45	23.67	164.72	0.01	22.83	137.31
2/8/2025 8:00	8.66	24.67	163.15	0.02	23.19	155.43
2/8/2025 9:00	8.98	24.33	163.16	0.03	23.65	173.69
2/8/2025 10:00	8.38	18.36	162.44	0.03	22.26	151.45
2/8/2025 11:00	8.66	18.67	163.77	0.03	22.76	150.90
2/8/2025 12:00	8.22	20.67	154.77	0.02	22.10	147.08
2/8/2025 13:00	8.01	19.33	159.86	0.02	21.82	138.53
2/8/2025 14:00	8.12	19	159.30	0.01	22.04	146.31
2/8/2025 15:00	8.49	21.67	162.76	0.02	22.52	146.12
2/8/2025 16:00	10.1	19.33	163.63	0.01	26.05	226.71
2/8/2025 17:00	9.15	30.67	162.07	0.01	24.01	194.98
2/8/2025 18:00	9.62	32.67	163.12	0.01	25.15	183.84
2/8/2025 19:00	9.79	22	164.60	0.01	25.75	223.44
2/8/2025 20:00	10.39	22.67	163.46	0.01	27.50	312.30
2/8/2025 21:00	8.23	21	163.53	0.03	22.34	138.52
2/8/2025 22:00	7.5	22	164.14	0.01	20.78	114.28
2/8/2025 23:00	7.64	23.67	163.28	0.01	20.92	114.47
3/8/2025 0:00	7.72	23.33	164.22	0.01	21.07	114.59
3/8/2025 1:00	8.11	21.97	164.34	0.01	21.78	120.93
3/8/2025 2:00	11.05	28.33	160.33	0.02	29.90	392.85
3/8/2025 3:00	9.52	28	163.76	0.01	25.57	287.05
3/8/2025 4:00	7.94	24.26	163.46	0.01	21.36	124.37
3/8/2025 5:00	7.78	26	163.96	0.02	21.24	126.43
3/8/2025 6:00	7.78	29.33	163.91	0.01	21.33	122.12
3/8/2025 7:00	8.13	25.9	164.91	0.01	21.78	126.92
3/8/2025 8:00	8.28	23.33	163.91	0.01	22.41	132.86
3/8/2025 9:00	9.47	23.33	163.62	0.02	24.69	176.93
3/8/2025 10:00	9.01	23.33	164.06	0.03	23.84	175.41
3/8/2025 11:00	8.49	23	164.33	0.02	22.51	157.19

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
3/8/2025 12:00	8.02	23	164.32	0.02	21.40	130.45
3/8/2025 13:00	8.15	27.33	158.97	0.02	21.67	139.75
3/8/2025 14:00	8.23	25	164.57	0.02	21.80	142.35
3/8/2025 15:00	7.97	27	162.25	0.02	21.46	135.06
3/8/2025 16:00	11.35	22.33	153.86	0.02	30.58	505.67
3/8/2025 17:00	9.61	19.33	163.24	0.01	25.11	205.22
3/8/2025 18:00	8.56	26	158.15	0.02	22.35	143.60
3/8/2025 19:00	9.76	18.67	158.86	0.01	25.23	197.05
3/8/2025 20:00	8.86	21.33	158.02	0.01	23.30	152.96
3/8/2025 21:00	8.73	23	163.94	0.01	23.99	174.97
3/8/2025 22:00	8.96	25.33	164.01	0.01	24.14	205.17
3/8/2025 23:00	8.07	24.75	164.65	0.01	22.06	140.79
4/8/2025 0:00	9.32	21.33	164.53	0.02	25.02	190.23
4/8/2025 1:00	9.8	23.67	164.56	0.02	25.49	192.64
4/8/2025 2:00	11.27	26.67	155.02	0.02	30.38	430.87
4/8/2025 3:00	10.26	22.33	164.05	0.02	26.62	207.09
4/8/2025 4:00	9.94	23.67	164.13	0.01	25.77	196.94
4/8/2025 5:00	9.62	23.33	160.71	0.01	25.05	185.96
4/8/2025 6:00	8.99	22	163.10	0.01	23.87	189.92
4/8/2025 7:00	8.85	21	163.56	0.02	23.42	157.27
4/8/2025 8:00	7.81	22.33	159.95	0.02	21.74	128.45
4/8/2025 9:00	8.37	21.33	162.99	0.03	22.38	138.86
4/8/2025 10:00	8.44	37.67	163.78	0.01	22.38	143.49
4/8/2025 11:00	8.1	26.67	163.75	0.01	21.82	140.15
4/8/2025 12:00	8.09	27.67	163.78	0.01	21.85	137.96
4/8/2025 13:00	9.94	25.25	164.85	0.02	26.29	218.52
4/8/2025 14:00	10.56	34.33	164.52	0.01	27.69	225.25
4/8/2025 15:00	12.3	38.43	136.47	0.02	34.48	633.09
4/8/2025 16:00	9.41	52.13	161.98	0.01	25.65	296.91
4/8/2025 17:00	8.24	67.33	159.64	0.01	22.41	156.37
4/8/2025 18:00	8.22	61.67	159.43	0.01	22.16	145.80
4/8/2025 19:00	8.18	71.67	162.45	0.01	21.98	142.51
4/8/2025 20:00	7.52	57	161.53	0.01	21.00	123.36
4/8/2025 21:00	8.03	54.43	163.47	0.01	21.78	133.00
4/8/2025 22:00	8.02	79.33	164.05	0.01	21.60	138.56
4/8/2025 23:00	7.68	57.7	163.12	0.01	20.74	121.48
5/8/2025 0:00	7.9	88.52	164.90	0.01	21.35	131.49
5/8/2025 1:00	8.1	94.1	164.53	0.01	21.80	133.96
5/8/2025 2:00	8.05	69.67	163.56	0.01	21.71	133.18
5/8/2025 3:00	8.05	53.33	164.58	0.02	21.64	147.93
5/8/2025 4:00	7.94	85.33	164.36	0.01	21.57	139.82
5/8/2025 5:00	7.89	75.33	163.90	0.02	21.38	133.88
5/8/2025 6:00	7.74	83.33	164.07	0.02	21.37	124.79
5/8/2025 7:00	8.06	87.33	163.63	0.01	21.84	132.67
5/8/2025 8:00	7.94	45.33	164.46	0.03	21.52	122.21
5/8/2025 9:00	8.03	123.33	164.66	0.04	22.00	139.16
5/8/2025 10:00	7.87	89	164.60	0.04	21.35	131.91
5/8/2025 11:00	8.06	48.33	163.95	0.03	21.74	126.93
5/8/2025 12:00	7.66	55.67	162.99	0.02	20.90	114.30
5/8/2025 13:00	7.6	113	164.52	0.02	20.73	119.04
5/8/2025 14:00	7.48	88	161.86	0.02	20.66	110.18
5/8/2025 15:00	7.53	3451	163.29	0.02	21.46	116.71
5/8/2025 16:00	7.73	86.67	163.16	0.01	21.40	130.03
5/8/2025 17:00	7.46	126	163.58	0.01	20.85	117.73
5/8/2025 18:00	7.44	97.67	160.96	0.01	20.81	116.31
5/8/2025 19:00	7.45	72.33	162.25	0.01	20.73	116.21
5/8/2025 20:00	7.16	65	157.99	0.02	20.46	105.74
5/8/2025 21:00	7.69	80.33	163.45	0.01	21.26	115.57
5/8/2025 22:00	7.57	86	161.67	0.02	21.03	115.65
5/8/2025 23:00	7.56	86.33	162.41	0.02	20.92	120.08
6/8/2025 0:00	7.56	54	162.71	0.01	21.04	118.14
6/8/2025 1:00	7.84	90.33	161.52	0.01	21.46	128.70
6/8/2025 2:00	7.57	90.67	163.61	0.01	21.02	114.39

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
6/8/2025 3:00	7.69	104	164.23	0.01	21.15	112.81
6/8/2025 4:00	9.63	74.33	161.63	0.01	25.34	202.69
6/8/2025 5:00	8.9	117.67	164.04	0.01	23.72	151.36
6/8/2025 6:00	8.94	98.33	164.10	0.02	23.42	161.82
6/8/2025 7:00	7.52	56	164.80	0.02	20.58	98.18
6/8/2025 8:00	7.15	67.67	164.41	0.10	19.97	80.50
6/8/2025 9:00	7.44	77.67	163.71	0.09	21.08	104.43
6/8/2025 10:00	7.72	84.67	164.36	0.12	20.76	98.74
6/8/2025 11:00	7.46	88.33	160.19	0.04	20.35	84.17
6/8/2025 12:00	6.94	72.67	150.83	0.02	19.67	78.86
6/8/2025 13:00	6.63	91.67	153.00	0.25	19.08	72.21
6/8/2025 14:00	7	93.33	155.41	0.05	19.97	89.07
6/8/2025 15:00	6.83	118	151.62	0.01	19.63	81.74
6/8/2025 16:00	7.25	98.67	156.36	0.01	20.22	82.31
6/8/2025 17:00	7.16	107.67	157.34	0.01	20.12	86.95
6/8/2025 18:00	7.5	98.67	158.68	0.01	20.82	105.71
6/8/2025 19:00	7.74	125.9	161.39	0.01	21.30	112.84
6/8/2025 20:00	7.11	107.33	158.29	0.01	20.53	96.35
6/8/2025 21:00	8.32	101.33	164.82	0.01	22.47	122.22
6/8/2025 22:00	7.81	86.67	164.11	0.01	21.22	111.16
6/8/2025 23:00	8.01	89.83	162.37	0.01	21.71	118.09
7/8/2025 0:00	8.18	103.33	164.57	0.01	22.04	120.03
7/8/2025 1:00	8.01	102.67	164.23	0.01	21.60	118.07
7/8/2025 2:00	7.99	109.33	163.15	0.01	21.67	116.76
7/8/2025 3:00	7.92	109.67	164.12	0.02	21.48	112.48
7/8/2025 4:00	8.48	100.67	164.33	0.01	22.66	140.49
7/8/2025 5:00	8.11	85.33	159.27	0.01	21.85	129.75
7/8/2025 6:00	8.08	98	158.00	0.01	21.96	133.90
7/8/2025 7:00	8.17	87.33	162.61	0.02	22.20	126.62
7/8/2025 8:00	7.11	99.33	153.00	0.02	19.94	77.64
7/8/2025 9:00	7	89.33	153.63	0.02	20.33	79.84
7/8/2025 10:00	7.33	92.33	158.69	0.03	20.30	84.46
7/8/2025 11:00	7.09	100	156.25	0.04	20.15	77.60
7/8/2025 12:00	7.18	121	154.67	0.02	20.26	83.50
7/8/2025 13:00	7.62	140.67	162.96	0.01	21.49	116.70
7/8/2025 14:00	7.72	106.67	163.57	0.01	21.45	113.72
7/8/2025 15:00	9.22	129.33	163.60	0.01	24.30	154.37
7/8/2025 16:00	11.15	71.33	146.72	0.01	30.38	512.66
7/8/2025 17:00	11.11	74.33	152.16	0.02	29.97	476.27
7/8/2025 18:00	7.71	113.67	161.03	0.01	21.25	118.54
7/8/2025 19:00	7.4	156	156.60	0.01	20.62	95.77
7/8/2025 20:00	7.64	79.67	159.91	0.01	20.95	100.44
7/8/2025 21:00	7.16	87.67	154.09	0.01	20.70	93.80
7/8/2025 22:00	7.39	133	160.14	0.01	20.73	96.45
7/8/2025 23:00	7.44	107	164.86	0.03	20.67	96.04
8/8/2025 0:00	7.63	108.67	164.66	0.02	21.08	104.01
8/8/2025 1:00	7.72	105.67	164.99	0.01	21.10	107.09
8/8/2025 2:00	7.57	98.67	164.21	0.01	20.88	112.72
8/8/2025 3:00	7.76	86.33	163.66	0.01	21.23	117.14
8/8/2025 4:00	8.04	105	163.41	0.01	21.79	127.64
8/8/2025 5:00	7.69	127	163.19	0.01	21.02	115.93
8/8/2025 6:00	7.76	86	163.54	0.01	21.22	122.74
8/8/2025 7:00	7.74	72.33	164.18	0.02	21.28	117.79
8/8/2025 8:00	7.85	92.67	164.01	0.03	21.25	116.57
8/8/2025 9:00	7.89	78.67	160.93	0.03	21.76	122.53
8/8/2025 10:00	8.51	117.67	153.88	0.03	22.31	151.98
8/8/2025 11:00	8.16	77.33	147.64	0.03	21.72	142.24
8/8/2025 12:00	7.32	44.67	147.05	0.02	20.66	108.00
8/8/2025 13:00	7.97	79	158.57	0.02	21.59	121.06
8/8/2025 14:00	7.92	56.33	163.87	0.02	21.27	114.63
8/8/2025 15:00	7.71	94	160.39	0.04	20.77	110.34
8/8/2025 16:00	7.74	7003.33	145.34	0.19	20.90	112.14
8/8/2025 17:00	7.85	109.67	153.91	0.01	21.46	133.43

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
8/8/2025 18:00	7.69	97.67	161.40	0.01	21.14	104.37
8/8/2025 19:00	7.14	90.67	153.56	0.01	20.22	89.06
8/8/2025 20:00	7.03	153	153.55	0.01	20.08	93.20
8/8/2025 21:00	6.98	112.33	153.08	0.06	20.57	90.77
8/8/2025 22:00	7.13	116.33	157.41	0.02	20.21	87.00
8/8/2025 23:00	7.3	105	156.33	0.01	20.64	105.93
9/8/2025 0:00	7.47	115.08	158.18	0.02	20.76	105.69
9/8/2025 1:00	7.39	108	162.31	0.01	20.64	107.54
9/8/2025 2:00	7.33	95.67	160.47	0.02	20.54	102.72
9/8/2025 3:00	7.84	96.33	163.27	0.02	21.56	124.40
9/8/2025 4:00	7.67	95.67	161.70	0.02	21.27	119.49
9/8/2025 5:00	7.1	158.67	157.49	0.02	20.10	105.33
9/8/2025 6:00	7.03	96	163.77	0.02	20.03	101.31
9/8/2025 7:00	7.99	68	158.58	0.02	21.53	130.16
9/8/2025 8:00	7.92	57.74	148.16	0.03	21.37	119.80
9/8/2025 9:00	7.51	59.33	142.96	0.03	20.73	95.34
9/8/2025 10:00	8.15	74.33	146.22	0.04	21.48	101.80
9/8/2025 11:00	7.73	66.67	138.59	0.03	20.79	100.62
9/8/2025 12:00	7.9	67.53	143.67	0.02	21.21	108.22
9/8/2025 13:00	8.18	74.33	140.90	0.03	21.72	117.28
9/8/2025 14:00	7.95	45	142.01	0.02	21.21	109.00
9/8/2025 15:00	8.32	80	147.44	0.02	21.71	117.01
9/8/2025 16:00	8.41	44.67	157.65	0.03	21.90	111.19
9/8/2025 17:00	7.76	71.33	163.54	0.01	20.94	106.45
9/8/2025 18:00	7.49	85	163.43	0.01	20.50	92.85
9/8/2025 19:00	7.38	51	164.11	0.01	20.33	91.17
9/8/2025 20:00	7.37	114	164.49	0.01	20.40	94.21
9/8/2025 21:00	7.48	104.33	163.52	0.01	20.94	101.88
9/8/2025 22:00	8.71	83.33	163.69	0.01	23.16	147.24
9/8/2025 23:00	7.95	90.17	163.24	0.01	21.67	113.98
10/8/2025 0:00	7.76	115.33	164.99	0.01	21.41	103.37
10/8/2025 1:00	7.85	97.67	163.71	0.01	21.45	104.98
10/8/2025 2:00	7.81	97.67	163.21	0.01	21.52	114.58
10/8/2025 3:00	7.83	103.67	163.57	0.01	21.71	116.21
10/8/2025 4:00	7.83	72.33	164.21	0.01	21.72	116.05
10/8/2025 5:00	7.98	66.33	163.02	0.01	22.15	124.00
10/8/2025 6:00	7.75	80.67	163.96	0.01	21.68	104.85
10/8/2025 7:00	7.85	82	163.48	0.01	21.74	108.19
10/8/2025 8:00	7.72	53.33	159.53	0.01	21.50	113.28
10/8/2025 9:00	8.04	59.02	164.99	0.03	21.73	116.53
10/8/2025 10:00	7.87	44.33	163.46	0.03	21.19	110.43
10/8/2025 11:00	8.57	43	163.46	0.02	22.75	134.39
10/8/2025 12:00	8.59	57	164.84	0.02	23.04	137.79
10/8/2025 13:00	8.78	6480	163.61	0.02	23.43	154.79
10/8/2025 14:00	9.27	97	163.11	0.00	24.76	173.17
10/8/2025 15:00	9.1	1435.67	163.82	0.01	24.34	165.14
10/8/2025 16:00	8.92	71.33	164.46	0.01	23.86	140.16
10/8/2025 17:00	8.03	76.67	164.96	0.01	22.13	110.79
10/8/2025 18:00	8.05	62	164.24	0.01	22.08	108.90
10/8/2025 19:00	8.03	114.33	163.01	0.01	22.18	114.32
10/8/2025 20:00	8.22	100.33	162.54	0.01	22.55	118.66
10/8/2025 21:00	9.65	120.67	161.97	0.02	25.61	215.65
10/8/2025 22:00	9.3	110.33	164.17	0.01	24.60	160.91
10/8/2025 23:00	8.56	107.33	163.61	0.01	22.95	127.77
11/8/2025 0:00	8.48	87	163.98	0.02	22.78	123.52
11/8/2025 1:00	9.04	85.67	164.53	0.01	23.93	149.49
11/8/2025 2:00	8.48	92.33	164.24	0.02	22.65	133.54
11/8/2025 3:00	8.27	128	163.71	0.01	22.51	126.71
11/8/2025 4:00	9.07	91	164.96	0.01	24.46	165.02
11/8/2025 5:00	8.81	93.67	164.23	0.02	23.91	141.57
11/8/2025 6:00	9.31	108	163.51	0.02	24.88	155.77
11/8/2025 7:00	9.2	90	163.43	0.01	24.42	151.81
11/8/2025 8:00	8.82	83.67	162.05	0.01	23.93	145.79

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
11/8/2025 9:00	8.66	65.33	162.92	0.01	23.28	134.10
11/8/2025 10:00	8.99	1599.33	164.50	0.01	23.68	151.53
11/8/2025 11:00	8.39	85.25	158.79	0.01	22.51	121.38
11/8/2025 12:00	9.33	87.33	164.00	0.01	24.43	178.56
11/8/2025 13:00	8.99	67.67	164.37	0.02	23.79	144.99
11/8/2025 14:00	8.2	88.67	163.37	0.01	21.95	125.60
11/8/2025 15:00	7.56	63.67	164.02	0.08	21.21	100.00
11/8/2025 16:00	7.71	78	163.13	0.13	21.29	107.09
11/8/2025 17:00	7.82	67.67	164.85	0.01	21.78	123.16
11/8/2025 18:00	7.98	78.67	163.51	0.01	21.75	112.06
11/8/2025 19:00	8.17	96.67	164.46	0.01	22.25	127.95
11/8/2025 20:00	7.11	82.67	164.63	0.01	20.88	95.09
11/8/2025 21:00	7.95	91.61	164.00	0.01	21.78	109.06
11/8/2025 22:00	8.26	84.33	163.99	0.01	23.11	117.23
11/8/2025 23:00	7.93	83.93	163.71	0.01	21.88	111.61
12/8/2025 0:00	8.89	100.67	163.92	0.01	23.63	147.39
12/8/2025 1:00	10.43	80.33	164.24	0.02	27.71	276.83
12/8/2025 2:00	8.96	87.67	163.16	0.02	23.78	151.67
12/8/2025 3:00	9.92	71.33	163.37	0.01	25.86	200.97
12/8/2025 4:00	9.04	88.67	164.97	0.02	23.90	155.24
12/8/2025 5:00	9.32	93	163.14	0.02	24.51	159.83
12/8/2025 6:00	9.67	61	163.00	0.01	25.40	175.97
12/8/2025 7:00	10.24	60.67	163.96	0.02	26.73	196.95
12/8/2025 8:00	8.47	48.33	163.08	1.72	23.05	104.15
12/8/2025 9:00	8.38	62.33	163.70	0.82	22.68	120.20
12/8/2025 10:00	8.07	71.67	163.83	0.71	21.74	115.35
12/8/2025 11:00	7.48	67.67	163.78	2.08	20.84	86.48
12/8/2025 12:00	8.21	95.67	164.25	0.47	21.97	115.23
12/8/2025 13:00	7.52	70.33	163.03	0.09	20.92	92.94
12/8/2025 14:00	8.34	62.33	164.93	0.02	22.62	112.64
12/8/2025 15:00	7.28	44.26	164.08	0.26	20.36	77.98
12/8/2025 16:00	7.51	31	164.12	0.12	20.68	81.15
12/8/2025 17:00	7.46	515.67	163.69	0.36	20.54	80.83
12/8/2025 18:00	7.46	818	163.45	1.20	20.61	85.18
12/8/2025 19:00	7.27	39.67	163.10	1.33	20.65	86.22
12/8/2025 20:00	7.15	54	164.95	1.81	21.01	94.41
12/8/2025 21:00	7.66	40.33	163.72	0.99	21.94	96.85
12/8/2025 22:00	8.56	60.67	163.78	0.01	23.57	129.48
12/8/2025 23:00	7.6	42.03	163.34	0.02	22.16	94.63
13/08/2025 00:00	7.32	53.67	163.41	0.01	21.24	87.15
13/08/2025 01:00	7.69	70.67	163.32	0.02	21.32	103.10
13/08/2025 02:00	8.4	71	163.36	0.40	22.41	116.82
13/08/2025 03:00	8.78	74.33	163.80	0.13	23.40	151.79
13/08/2025 04:00	8.04	45.67	164.53	0.15	22.04	129.22
13/08/2025 05:00	8.07	68.67	163.16	0.01	21.89	113.28
13/08/2025 06:00	7.45	58.33	164.53	0.02	20.88	93.52
13/08/2025 07:00	8.07	1190.33	164.90	0.10	22.11	129.59
13/08/2025 08:00	7.1	93.33	163.70	0.85	20.98	90.49
13/08/2025 09:00	8.18	62.33	163.78	0.31	22.86	117.24
13/08/2025 10:00	8.26	35	163.83	0.18	22.18	123.11
13/08/2025 11:00	7.59	47.67	164.23	0.03	21.24	103.54
13/08/2025 12:00	7.73	56.67	164.45	0.09	21.49	101.16
13/08/2025 13:00	7.34	63.61	163.62	0.12	20.76	92.77
13/08/2025 14:00	7.38	46.67	163.24	0.11	20.86	92.54
13/08/2025 15:00	7.26	45.67	164.09	0.05	20.66	93.27
13/08/2025 16:00	8.61	46.33	163.98	0.02	23.97	136.08
13/08/2025 17:00	8.25	38.67	163.26	0.01	22.87	110.84
13/08/2025 18:00	8.17	52.33	163.32	0.01	22.31	115.78
13/08/2025 19:00	7.71	33.77	164.49	0.02	21.53	103.94
13/08/2025 20:00	7.55	48	163.57	0.02	21.59	106.59
13/08/2025 21:00	7.75	55	164.59	0.23	21.36	102.41
13/08/2025 22:00	7.61	30.33	163.92	0.31	20.97	111.10
13/08/2025 23:00	7.4	53.33	164.88	0.02	20.77	103.22

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
14/08/2025 00:00	7.48	59.33	163.18	0.31	20.95	102.96
14/08/2025 01:00	7.67	60	164.96	0.80	21.22	113.51
14/08/2025 02:00	7.09	60	163.16	1.09	20.14	89.86
14/08/2025 03:00	7.25	51	163.06	1.03	20.43	101.27
14/08/2025 04:00	6.96	49.33	163.87	0.86	20.02	98.26
14/08/2025 05:00	6.88	41.31	164.28	1.79	20.14	102.67
14/08/2025 06:00	7.01	77.67	163.77	4.71	20.05	100.14
14/08/2025 07:00	7.05	28	163.24	6.52	19.96	88.33
14/08/2025 08:00	6.88	45	164.91	10.92	20.38	73.53
14/08/2025 09:00	7.44	34.67	164.34	12.69	20.83	87.29
14/08/2025 10:00	7.58	26.67	163.19	12.18	20.71	81.33
14/08/2025 11:00	7.45	3833.67	164.91	14.42	21.00	89.28
14/08/2025 12:00	7.75	10011.67	163.45	6.68	21.65	110.14
14/08/2025 13:00	7.59	128.33	163.72	6.26	21.11	99.80
14/08/2025 14:00	7.19	49	163.42	5.21	20.25	96.13
14/08/2025 15:00	6.94	62	163.54	12.78	19.68	74.26
14/08/2025 16:00	7.08	70.67	163.94	10.61	20.07	80.76
14/08/2025 17:00	7.19	57.67	163.71	17.96	20.05	68.54
14/08/2025 18:00	12.21	96.33	164.25	1.83	34.33	560.94
14/08/2025 19:00	10.35	70.33	164.48	2.90	27.62	186.33
14/08/2025 20:00	7.7	78.67	164.16	6.54	20.93	87.20
14/08/2025 21:00	6.8	70.67	164.46	13.23	20.88	73.89
14/08/2025 22:00	7.16	48	163.85	15.03	20.24	75.38
14/08/2025 23:00	7.16	70.85	164.67	11.19	20.54	84.34
15/08/2025 00:00	8.98	80	164.76	0.53	23.98	155.28
15/08/2025 01:00	7.75	98.33	163.20	0.05	21.27	104.95
15/08/2025 02:00	7.61	103	163.66	0.01	21.16	99.94
15/08/2025 03:00	7.66	83	163.58	0.01	21.13	97.32
15/08/2025 04:00	7.23	97.38	163.04	0.01	20.23	94.14
15/08/2025 05:00	7.18	88.33	163.68	0.33	20.22	90.05
15/08/2025 06:00	7.23	69.51	163.38	0.77	20.35	89.88
15/08/2025 07:00	7.47	88	164.33	1.99	20.62	87.87
15/08/2025 08:00	7.46	63	163.83	6.19	20.65	79.97
15/08/2025 09:00	9.13	73	164.29	4.45	24.83	166.02
15/08/2025 10:00	8.38	75	163.50	8.54	22.07	109.69
15/08/2025 11:00	7.99	69.67	163.57	12.67	21.34	110.40
15/08/2025 12:00	8.09	88.67	164.18	5.00	21.46	112.62
15/08/2025 13:00	7.96	97.33	164.36	5.34	21.27	110.72
15/08/2025 14:00	7.42	89	164.21	3.55	20.50	107.52
15/08/2025 15:00	7.5	58.33	164.61	1.93	20.70	102.56
15/08/2025 16:00	8.15	124.33	164.30	0.66	21.83	135.15
15/08/2025 17:00	7.8	83.67	164.74	0.16	21.25	101.48
15/08/2025 18:00	7.75	94.67	163.72	1.31	21.16	105.73
15/08/2025 19:00	6.99	70.67	163.94	2.53	19.92	91.77
15/08/2025 20:00	6.54	81	164.18	3.56	20.14	86.93
15/08/2025 21:00	9.54	113	165.00	1.64	25.10	157.03
15/08/2025 22:00	7.85	101.33	162.08	2.90	21.51	145.96
15/08/2025 23:00	7.59	65.33	164.66	0.15	20.86	99.79
16/08/2025 00:00	7.41	85	163.86	0.23	20.56	98.19
16/08/2025 01:00	7.5	142	163.26	0.63	20.54	100.83
16/08/2025 02:00	7.53	96	163.32	3.65	20.48	102.97
16/08/2025 03:00	7.42	133	163.93	4.58	20.34	91.23
16/08/2025 04:00	7.8	59	163.32	2.59	21.18	106.02
16/08/2025 05:00	7.43	61.67	164.58	2.98	20.91	100.96
16/08/2025 06:00	7.86	88.33	164.98	2.59	21.47	113.54
16/08/2025 07:00	9.1	101.67	164.38	0.03	25.29	196.42
16/08/2025 08:00	8.64	91.33	163.63	1.48	22.90	132.55
16/08/2025 09:00	7.85	112	163.45	5.52	21.51	114.93
16/08/2025 10:00	7.85	60.33	163.12	5.86	21.19	108.98
16/08/2025 11:00	7.69	75	164.28	6.50	20.77	96.07
16/08/2025 12:00	7.55	97	163.24	3.96	20.85	102.86
16/08/2025 13:00	7.73	73	163.91	3.49	20.83	109.83
16/08/2025 14:00	7.65	85.33	163.38	8.11	20.56	91.29
16/08/2025 15:00	7.76	60.67	164.90	5.73	20.82	103.97

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
16/08/2025 16:00	7.65	59.33	164.20	2.11	20.72	106.08
16/08/2025 17:00	7.8	125.45	164.44	0.22	20.99	107.87
16/08/2025 18:00	7.74	90	164.50	0.01	20.86	108.79
16/08/2025 19:00	7.25	89.33	163.77	0.20	19.97	88.27
16/08/2025 20:00	6.7	80	163.24	2.68	19.41	87.14
16/08/2025 21:00	7.35	72.67	163.35	2.65	20.35	100.72
16/08/2025 22:00	7.45	58.67	164.72	2.00	20.76	104.43
16/08/2025 23:00	7.72	81.64	163.16	1.24	20.96	104.08
17/08/2025 00:00	7.65	99.67	164.49	1.45	20.77	104.38
17/08/2025 01:00	7.55	89.67	164.05	0.24	20.92	110.52
17/08/2025 02:00	7.26	96.39	163.93	0.80	20.30	99.17
17/08/2025 03:00	7.22	81	163.02	2.71	20.14	94.03
17/08/2025 04:00	7.18	79.67	163.64	0.67	20.23	101.17
17/08/2025 05:00	7.28	91.33	164.77	0.44	20.34	96.17
17/08/2025 06:00	7.45	80.33	163.23	0.50	20.77	108.46
17/08/2025 07:00	7.66	89.67	164.31	1.55	20.91	104.88
17/08/2025 08:00	7.66	83.67	164.38	7.59	20.84	96.88
17/08/2025 09:00	7.91	54.67	163.43	8.36	21.35	113.19
17/08/2025 10:00	7.86	69.33	163.72	3.27	21.09	111.29
17/08/2025 11:00	7.55	76.67	164.38	0.18	20.66	111.23
17/08/2025 12:00	7.83	58.67	164.71	0.57	20.97	112.34
17/08/2025 13:00	7.52	78.33	163.08	1.02	20.55	107.11
17/08/2025 14:00	7.43	85.81	164.35	0.26	20.38	101.47
17/08/2025 15:00	7.54	46.33	164.24	0.49	20.50	101.07
17/08/2025 16:00	7.85	69.33	164.87	4.59	20.88	94.45
17/08/2025 17:00	7.72	85	164.87	8.94	20.59	89.51
17/08/2025 18:00	7.65	84.33	164.72	7.70	20.52	94.37
17/08/2025 19:00	7.55	116	163.48	7.68	20.38	87.00
17/08/2025 20:00	7.21	1756	163.86	10.41	20.08	80.78
17/08/2025 21:00	7.5	84.52	164.32	12.36	20.45	86.72
17/08/2025 22:00	7.36	58	164.91	12.08	20.23	88.64
17/08/2025 23:00	7.39	91	164.22	10.17	20.43	83.67
18/08/2025 00:00	7.57	91.33	164.88	7.14	20.63	95.44
18/08/2025 01:00	7.74	63	163.35	7.19	20.91	102.35
18/08/2025 02:00	7.9	79	164.82	9.60	21.16	94.34
18/08/2025 03:00	7.49	80.67	163.32	15.59	20.65	88.52
18/08/2025 04:00	7.84	108.33	163.80	12.45	21.16	101.55
18/08/2025 05:00	7.83	90.67	163.03	7.80	21.13	108.17
18/08/2025 06:00	8.18	82.67	164.84	2.94	22.01	118.71
18/08/2025 07:00	9.07	52.46	164.31	0.98	23.59	137.82
18/08/2025 08:00	8.09	42.33	164.75	2.58	21.74	118.30
18/08/2025 09:00	8.39	35.67	164.79	3.16	22.18	125.61
18/08/2025 10:00	9.71	43	163.32	0.20	25.86	214.97
18/08/2025 11:00	8.58	46.33	163.65	0.11	22.43	125.63
18/08/2025 12:00	8.23	35.33	163.21	0.27	21.61	103.22
18/08/2025 13:00	8.17	62.67	164.76	0.21	21.45	111.36
18/08/2025 14:00	9.04	62.33	163.78	0.01	23.36	147.75
18/08/2025 15:00	8.7	60	164.82	0.01	22.87	138.66
18/08/2025 16:00	8.18	73	163.75	1.97	21.59	97.71
18/08/2025 17:00	7.94	90	164.95	3.61	21.18	102.63
18/08/2025 18:00	7.74	69.51	164.66	5.84	20.82	104.71
18/08/2025 19:00	7.63	90.33	164.51	5.81	20.82	93.41
18/08/2025 20:00	11.47	6158.03	153.28	2.16	33.30	454.50
18/08/2025 21:00	10.36	17321	152.65	0.32	29.74	463.85
18/08/2025 22:00	7.83	8819.67	164.59	1.26	22.09	120.03
18/08/2025 23:00	7.6	91.33	164.97	1.85	20.82	102.03
19/08/2025 00:00	7.67	87	164.98	0.01	20.87	115.52
19/08/2025 01:00	7.79	94.33	164.96	0.31	21.06	112.63
19/08/2025 02:00	7.66	104.92	163.43	0.15	20.86	111.92
19/08/2025 03:00	7.46	77.05	164.96	0.24	20.52	109.68
19/08/2025 04:00	7.6	106	163.55	0.06	20.81	112.89
19/08/2025 05:00	7.44	81	163.60	0.09	21.43	113.50
19/08/2025 06:00	7.62	68.33	163.54	0.16	21.35	121.50

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
19/08/2025 07:00	7.64	82.33	164.25	0.01	20.96	116.48
19/08/2025 08:00	7.51	86	164.37	0.26	20.89	120.33
19/08/2025 09:00	8.02	76	164.79	0.30	21.38	122.65
19/08/2025 10:00	8.21	69	163.56	0.25	21.74	121.15
19/08/2025 11:00	9.3	92.79	164.67	0.00	24.38	182.38
19/08/2025 12:00	8.56	63.28	164.29	0.01	22.32	135.00
19/08/2025 13:00	9.88	73	163.58	0.01	28.51	414.06
19/08/2025 14:00	8.2	83.67	163.74	1.12	21.74	125.44
19/08/2025 15:00	8.47	442.3	163.63	0.66	22.24	140.53
19/08/2025 16:00	7.77	2076.33	164.98	2.44	20.85	102.18
19/08/2025 17:00	7.65	96	163.20	2.82	20.84	107.35
19/08/2025 18:00	7.59	95	163.61	1.96	20.74	108.25
19/08/2025 19:00	7.76	40.67	164.89	0.96	21.10	112.55
19/08/2025 20:00	7.38	93.67	163.46	0.13	21.33	111.41
19/08/2025 21:00	7.79	82	164.92	0.01	21.29	121.83
19/08/2025 22:00	7.49	80	164.40	0.01	20.82	114.76
19/08/2025 23:00	7.09	103	158.39	0.01	20.39	97.88
20/08/2025 00:00	6.97	87.33	164.59	0.01	20.07	91.30
20/08/2025 01:00	6.82	83.33	163.11	0.47	20.15	87.90
20/08/2025 02:00	6.93	92.33	163.57	2.80	19.92	84.59
20/08/2025 03:00	6.98	85.67	164.13	5.26	19.78	78.76
20/08/2025 04:00	7.21	78.67	164.33	3.97	20.37	88.08
20/08/2025 05:00	7.18	105.67	164.51	0.32	20.55	97.04
20/08/2025 06:00	7.59	72	164.98	0.00	21.32	109.62
20/08/2025 07:00	7.28	74.67	164.58	0.00	20.38	109.59
20/08/2025 08:00	8.28	57.67	163.27	0.56	22.59	124.25
20/08/2025 09:00	7.55	46	164.39	0.02	20.73	104.31
20/08/2025 10:00	7.46	83	164.82	0.00	20.50	113.35
20/08/2025 11:00	7.5	73.33	160.66	0.00	20.63	113.98
20/08/2025 12:00	7.38	65.33	164.65	0.00	20.38	94.75
20/08/2025 13:00	8.11	78.67	164.17	0.00	21.66	109.23
20/08/2025 14:00	7.27	71	164.06	0.09	20.14	92.46
20/08/2025 15:00	7.56	57.33	163.24	0.00	20.62	108.01
20/08/2025 16:00	8.38	39.67	154.98	0.00	22.18	122.69
20/08/2025 17:00	9.36	33.67	156.22	0.01	24.48	161.78
20/08/2025 18:00	6.78	40	163.39	0.01	19.67	101.81
20/08/2025 19:00	6.89	67.67	163.31	0.01	19.90	98.81
20/08/2025 20:00	6.5	147.54	164.59	0.01	20.57	102.52
20/08/2025 21:00	6.97	162	162.62	0.01	20.57	127.24
20/08/2025 22:00	7.13	135.08	161.06	0.01	20.65	120.62
20/08/2025 23:00	7.23	99.67	160.32	0.01	20.74	118.00
21/08/2025 00:00	7.44	117.67	164.91	0.01	20.71	113.07
21/08/2025 01:00	7.41	114.33	164.89	0.01	20.78	121.97
21/08/2025 02:00	7.17	88.67	164.70	0.01	20.42	119.32
21/08/2025 03:00	7.28	98	163.33	0.01	20.73	128.09
21/08/2025 04:00	7.55	75.41	164.89	0.01	21.12	128.94
21/08/2025 05:00	7.54	107	163.02	0.01	21.01	130.55
21/08/2025 06:00	7.43	93.33	164.32	0.01	20.95	135.12
21/08/2025 07:00	7.27	80	164.13	0.01	20.58	130.05
21/08/2025 08:00	7.44	95.33	164.37	0.01	20.72	126.05
21/08/2025 09:00	7.7	110.33	163.24	0.00	21.47	139.88
21/08/2025 10:00	7.95	100	163.13	0.01	22.50	156.53
21/08/2025 11:00	7.64	63.67	163.87	0.01	20.76	118.25
21/08/2025 12:00	7.19	77	163.42	0.01	20.10	114.55
21/08/2025 13:00	6.95	81.33	164.26	0.01	19.85	123.30
21/08/2025 14:00	7.22	83.67	163.53	0.00	20.18	124.72
21/08/2025 15:00	7.29	109.33	163.18	0.01	20.34	115.40
21/08/2025 16:00	7.37	99	164.71	0.01	20.34	111.06
21/08/2025 17:00	7.32	77.67	163.46	0.19	20.26	107.25
21/08/2025 18:00	7.24	111.67	163.28	0.70	20.11	103.30
21/08/2025 19:00	7.01	113	163.49	0.13	19.98	112.99
21/08/2025 20:00	6.68	118.33	164.97	0.10	19.72	109.08
21/08/2025 21:00	7.25	105	163.95	0.01	20.63	133.28

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
21/08/2025 22:00	6.85	88	164.53	0.01	19.96	123.98
21/08/2025 23:00	6.67	100.67	163.10	0.01	19.75	115.16
22/08/2025 00:00	6.67	105.67	155.16	0.00	20.02	125.03
22/08/2025 01:00	7.06	86.33	162.73	0.00	20.48	132.90
22/08/2025 02:00	6.59	93.33	157.15	0.00	19.71	120.75
22/08/2025 03:00	6.59	83.67	156.88	0.00	19.68	136.79
22/08/2025 04:00	6.77	84.33	160.75	0.00	20.00	141.77
22/08/2025 05:00	6.91	127.33	163.51	0.01	20.14	134.77
22/08/2025 06:00	6.8	102.33	163.36	0.01	19.87	133.08
22/08/2025 07:00	6.58	94.67	164.34	0.01	19.45	130.04
22/08/2025 08:00	6.67	60.67	164.77	0.01	19.50	113.55
22/08/2025 09:00	6.39	66	164.94	0.01	19.64	99.55
22/08/2025 10:00	7.16	76	165.00	0.00	20.58	98.05
22/08/2025 11:00	7.51	82	164.13	0.00	22.08	112.24
22/08/2025 12:00	7.89	100.67	163.05	0.01	22.80	125.65
22/08/2025 13:00	9.23	65.33	164.81	0.00	25.91	162.54
22/08/2025 14:00	8.29	75	163.92	0.01	23.69	135.10
22/08/2025 15:00	8.71	113.44	163.68	0.01	24.60	164.23
22/08/2025 16:00	7.48	105.33	164.96	0.01	23.08	132.44
22/08/2025 17:00	7.54	90.82	163.23	0.01	25.76	131.13
22/08/2025 18:00	7.57	71.33	157.30	0.01	22.87	172.27
22/08/2025 19:00	7.41	99	163.38	0.00	22.39	168.85
22/08/2025 20:00	6.88	121.67	164.57	0.01	21.10	156.25
22/08/2025 21:00	7.7	101.64	164.12	0.01	22.03	156.01
22/08/2025 22:00	7.63	133	164.15	0.01	21.51	132.94
22/08/2025 23:00	7.25	116.67	164.56	0.01	20.94	129.20
23/08/2025 00:00	6.96	89.33	164.34	0.01	20.37	147.78
23/08/2025 01:00	6.56	157	159.31	0.01	19.76	134.21
23/08/2025 02:00	6.99	56.67	164.41	0.01	20.67	145.13
23/08/2025 03:00	6.81	100	164.74	0.01	20.24	131.06
23/08/2025 04:00	6.6	115.33	161.66	0.00	19.86	123.82
23/08/2025 05:00	6.85	105	164.53	0.01	20.15	134.83
23/08/2025 06:00	6.81	118.33	163.48	0.01	20.05	128.47
23/08/2025 07:00	7.13	56.67	164.26	0.01	21.37	132.30
23/08/2025 08:00	6.86	99	164.55	0.01	20.91	124.46
23/08/2025 09:00	7.73	76	163.37	0.01	22.60	158.92
23/08/2025 10:00	7.91	117.67	163.46	0.01	22.86	149.45
23/08/2025 11:00	7.92	108.67	163.90	0.01	22.55	162.13
23/08/2025 12:00	7.89	90	164.62	0.01	22.69	166.35
23/08/2025 13:00	7.59	99	163.09	0.01	22.10	146.78
23/08/2025 14:00	7.31	80	164.07	0.01	22.00	134.35
23/08/2025 15:00	7.48	93.77	163.25	0.01	22.15	140.81
23/08/2025 16:00	7.91	120	163.12	0.01	23.82	146.63
23/08/2025 17:00	7.66	157.67	164.76	0.00	22.61	133.62
23/08/2025 18:00	7.26	125.67	164.27	0.01	21.69	132.13
23/08/2025 19:00	7.57	173.67	164.42	0.01	22.19	141.85
23/08/2025 20:00	6.87	96.67	163.81	1.61	20.99	119.60
23/08/2025 21:00	7.48	123.33	163.40	3.02	22.28	143.82
23/08/2025 22:00	7.82	135	163.82	0.53	23.66	154.78
23/08/2025 23:00	7.07	103	164.10	0.06	20.90	122.98
24/08/2025 00:00	6.75	128	164.32	0.00	20.27	112.12
24/08/2025 01:00	7.86	105.81	163.31	0.03	22.85	154.68
24/08/2025 02:00	8.64	143.67	164.33	0.05	25.08	204.14
24/08/2025 03:00	8.22	91.67	163.28	0.02	24.51	209.69
24/08/2025 04:00	7.74	92.33	164.33	0.03	23.02	158.67
24/08/2025 05:00	7.5	114.33	164.55	0.01	22.42	142.80
24/08/2025 06:00	7.72	139.33	163.81	0.00	23.04	180.42
24/08/2025 07:00	7.68	61.94	163.65	0.00	23.39	177.51
24/08/2025 08:00	7.73	97.33	164.34	0.01	22.25	176.79
24/08/2025 09:00	7.71	63	164.57	0.02	22.97	177.91
24/08/2025 10:00	8.35	87.21	163.76	0.01	23.71	188.19
24/08/2025 11:00	8.42	75.33	164.38	0.00	25.03	202.18
24/08/2025 12:00	8.19	94	164.61	0.01	23.69	183.99

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
24/08/2025 13:00	7.82	71.67	164.40	0.00	22.29	152.31
24/08/2025 14:00	8.05	82.67	164.84	0.00	23.86	165.53
24/08/2025 15:00	8.65	78.67	163.87	0.00	25.63	220.01
24/08/2025 16:00	7.85	86.33	163.01	0.00	24.15	184.00
24/08/2025 17:00	7.72	91.67	164.78	0.00	23.80	179.77
24/08/2025 18:00	7.7	110.33	163.26	0.00	24.20	174.73
24/08/2025 19:00	7.59	138.67	163.39	0.00	23.74	182.15
24/08/2025 20:00	7.39	139.33	163.63	0.00	23.72	191.56
24/08/2025 21:00	7.62	118.69	163.41	0.00	23.70	187.08
24/08/2025 22:00	7.37	89	164.63	0.00	22.45	172.61
24/08/2025 23:00	6.92	115	150.00	0.00	21.17	153.62
25/08/2025 00:00	7.06	109.33	157.54	0.00	21.46	142.50
25/08/2025 01:00	7.29	102.67	163.42	0.01	21.32	133.86
25/08/2025 02:00	7.46	122.33	163.33	0.01	21.81	154.47
25/08/2025 03:00	7.92	97.33	163.21	0.00	22.65	166.15
25/08/2025 04:00	7.92	105.9	164.68	0.00	22.46	164.26
25/08/2025 05:00	7.74	101	164.48	0.01	21.90	143.34
25/08/2025 06:00	9.65	79.33	161.48	0.01	31.00	526.61
25/08/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
25/08/2025 19:00	7.12	91.33	164.57	0.01	21.64	141.85
25/08/2025 20:00	6.65	128.33	159.44	0.01	21.55	155.06
25/08/2025 21:00	7.53	110.33	164.81	0.01	23.19	170.48
25/08/2025 22:00	7.93	92.67	163.61	0.01	25.10	162.08
25/08/2025 23:00	8	113	164.08	0.01	25.78	162.36
26/08/2025 00:00	7.65	97	164.41	0.01	24.23	166.06
26/08/2025 01:00	8.11	112.67	162.32	0.01	27.06	246.06
26/08/2025 02:00	8.25	123	163.64	0.01	26.30	206.49
26/08/2025 03:00	8.06	77	163.99	0.01	25.24	180.60
26/08/2025 04:00	7.46	108.33	164.37	0.01	22.46	142.35
26/08/2025 05:00	7.31	126.67	163.99	0.01	21.85	134.76
26/08/2025 06:00	7.39	78.36	163.80	0.01	21.83	138.49
26/08/2025 07:00	7.24	105.25	164.90	0.01	21.82	140.02
26/08/2025 08:00	7.45	74	164.90	0.01	22.60	158.30
26/08/2025 09:00	7.84	94.67	164.27	0.01	23.00	191.86
26/08/2025 10:00	7.49	78.33	163.75	0.01	21.71	144.81
26/08/2025 11:00	6.78	94.67	163.70	0.00	20.38	132.54
26/08/2025 12:00	6.72	64	164.94	0.58	20.04	120.03
26/08/2025 13:00	6.77	97.67	164.47	1.09	20.33	129.60
26/08/2025 14:00	6.98	72.33	160.94	0.00	20.38	126.49
26/08/2025 15:00	7.27	80.33	163.30	0.00	21.87	145.36
26/08/2025 16:00	7.18	91.67	162.75	0.01	21.89	164.00
26/08/2025 17:00	7.74	63.61	164.51	0.01	23.12	170.69
26/08/2025 18:00	7.21	58	164.41	0.00	21.97	126.16
26/08/2025 19:00	7.3	113.33	163.56	0.00	22.07	131.17
26/08/2025 20:00	6.98	55.74	163.47	0.01	22.87	126.57
26/08/2025 21:00	7.48	102.33	164.11	0.00	21.90	129.76
26/08/2025 22:00	7.43	89	163.38	0.01	21.39	125.73
26/08/2025 23:00	7.4	81.69	163.94	0.01	21.73	148.50
27/08/2025 00:00	7.62	92.79	164.49	0.01	22.82	158.39
27/08/2025 01:00	8	102.67	165.00	0.00	23.87	166.08
27/08/2025 02:00	7.84	93.33	164.24	0.00	22.99	164.10
27/08/2025 03:00	7.88	58.69	164.16	0.00	22.68	169.59
27/08/2025 04:00	8.01	109.67	164.89	0.00	23.25	189.11

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
27/08/2025 05:00	8.11	85.67	163.15	0.00	23.45	204.54
27/08/2025 06:00	7.92	94	164.66	0.00	22.74	196.04
27/08/2025 07:00	7.77	104.67	163.05	0.01	22.06	180.72
27/08/2025 08:00	7.45	75.48	164.43	0.00	21.84	162.57
27/08/2025 09:00	7.65	43.67	163.68	0.19	21.77	163.00
27/08/2025 10:00	7.34	49.67	164.09	0.00	21.18	135.83
27/08/2025 11:00	7.09	62.62	163.88	0.00	20.80	120.64
27/08/2025 12:00	7.14	71.33	163.46	0.00	21.20	124.82
27/08/2025 13:00	7.3	61.67	164.64	0.00	21.90	123.86
27/08/2025 14:00	7.13	66.67	163.59	0.00	21.57	121.21
27/08/2025 15:00	7.12	58.69	163.43	0.00	21.41	128.92
27/08/2025 16:00	7.16	53	164.31	0.00	21.47	137.05
27/08/2025 17:00	6.88	97.33	164.02	0.00	21.36	127.37
27/08/2025 18:00	6.77	135	163.07	0.00	20.97	125.27
27/08/2025 19:00	6.9	149.67	163.16	0.01	21.06	125.09
27/08/2025 20:00	7.1	105	163.47	0.00	21.86	146.70
27/08/2025 21:00	7.55	95.08	163.77	0.01	22.50	163.86
27/08/2025 22:00	7.66	74	163.16	0.02	22.33	160.48
27/08/2025 23:00	7.6	63	163.95	0.03	22.17	157.51
28/08/2025 00:00	7.79	121.33	164.09	0.05	22.55	152.66
28/08/2025 01:00	9	54.67	163.45	0.01	26.38	212.18
28/08/2025 02:00	8.55	110.67	164.91	0.01	24.62	183.31
28/08/2025 03:00	8.36	107.87	163.06	0.03	23.76	165.95
28/08/2025 04:00	8.35	153.44	163.38	0.09	23.75	162.82
28/08/2025 05:00	8.11	135.33	163.03	0.01	22.95	160.28
28/08/2025 06:00	7.87	137	163.52	0.01	22.16	150.67
28/08/2025 07:00	8.12	119	164.67	0.01	22.76	159.89
28/08/2025 08:00	7.78	82.33	160.57	0.10	22.70	157.40
28/08/2025 09:00	7.73	56.33	161.86	0.29	21.95	138.91
28/08/2025 10:00	7.68	117.67	163.38	0.01	21.97	156.00
28/08/2025 11:00	8.04	97.7	160.83	0.01	22.27	154.30
28/08/2025 12:00	7.38	94.67	164.14	0.06	20.97	117.46
28/08/2025 13:00	7.61	105.67	160.87	0.01	21.79	130.16
28/08/2025 14:00	7.28	69.67	164.90	0.03	21.13	119.03
28/08/2025 15:00	6.87	84	161.15	0.13	20.64	117.82
28/08/2025 16:00	7.21	65.67	161.10	0.57	21.14	114.70
28/08/2025 17:00	7.2	98.67	161.12	0.41	21.64	133.45
28/08/2025 18:00	7.14	72.67	162.97	0.11	21.50	126.20
28/08/2025 19:00	7.34	90.33	164.47	0.02	21.89	124.54
28/08/2025 20:00	7.02	101.33	164.90	0.01	21.38	116.53
28/08/2025 21:00	6.85	77.67	161.00	0.01	21.71	106.86
28/08/2025 22:00	7.48	151.67	161.69	0.00	22.62	128.35
28/08/2025 23:00	7.6	119	162.29	0.01	22.37	133.50
29/08/2025 00:00	7.5	87.67	161.48	0.01	21.35	128.43
29/08/2025 01:00	7.66	118	164.95	0.01	22.36	139.83
29/08/2025 02:00	8.06	118.33	162.53	0.01	23.81	150.39
29/08/2025 03:00	8.34	137.67	161.18	0.01	23.98	171.16
29/08/2025 04:00	7.81	96.67	161.03	0.01	22.14	141.73
29/08/2025 05:00	7.84	139.33	162.74	0.02	21.83	137.85
29/08/2025 06:00	7.98	78.33	164.26	0.09	22.07	142.85
29/08/2025 07:00	8.26	85	161.43	0.03	22.89	172.41
29/08/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/08/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance

[illegible]

Site Name: GULF_GCG
Stack Name: Boiler
Periodically: 01/09/2025 00:00-30/09/2025 23:59

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
1/9/2025 0:00	8.37	79.33	141.24	0.01	23.52	137.04
1/9/2025 1:00	7.69	77.67	131.82	0.01	22.17	119.26
1/9/2025 2:00	7.87	87.33	132.03	0.01	22.44	130.07
1/9/2025 3:00	7.97	96.67	137.49	0.01	22.43	130.61
1/9/2025 4:00	8.07	72.33	136.69	0.01	22.66	140.68
1/9/2025 5:00	8.07	72.33	133.47	0.01	22.77	140.24
1/9/2025 6:00	8.08	104.33	132.71	0.01	22.60	146.52
1/9/2025 7:00	7.97	97	138.22	0.01	22.32	140.36
1/9/2025 8:00	7.83	73	137.63	0.01	21.95	134.35
1/9/2025 9:00	7.41	75.67	141.77	0.01	21.91	123.94
1/9/2025 10:00	8.1	50	144.5	0.01	22.93	135.85
1/9/2025 11:00	8.31	82.33	146.04	0.01	23.68	145.34
1/9/2025 12:00	7.7	69	142.67	0.01	21.55	119.44
1/9/2025 13:00	7.39	74	141.54	0.01	20.72	109.54
1/9/2025 14:00	7.24	98.67	145.44	0.01	20.77	110.19
1/9/2025 15:00	7.27	86.33	149.25	0.01	20.78	108.82
1/9/2025 16:00	7.04	55.67	156.9	0.01	20.47	99.53
1/9/2025 17:00	7.2	103.67	147.51	0.01	20.72	110.17
1/9/2025 18:00	7.24	48	150.69	0.89	20.55	111.21
1/9/2025 19:00	7.49	110	154.7	2.32	21.07	117.44
1/9/2025 20:00	6.76	90	142.61	0.36	21.06	99.69
1/9/2025 21:00	8.18	135.67	157.47	0.07	28.99	237.34
1/9/2025 22:00	12.03	73.87	128.44	0.01	35.59	404.17
1/9/2025 23:00	8.22	104.75	127.26	0.01	22.36	143.49
2/9/2025 0:00	7.63	96.67	128.9	1.82	21.27	122.85
2/9/2025 1:00	7.61	97.05	147.37	1.13	21.60	133.50
2/9/2025 2:00	7.96	85.67	135.98	0.04	22.32	147.86
2/9/2025 3:00	8.06	90.33	137.63	0.16	22.55	146.88
2/9/2025 4:00	7.73	85	123.83	0.01	21.55	129.74
2/9/2025 5:00	7.6	73.33	129.1	0.02	21.91	133.44
2/9/2025 6:00	7.88	115	131.53	0.03	22.54	135.55
2/9/2025 7:00	7.62	64.67	129.39	0.20	21.99	128.15
2/9/2025 8:00	7.35	75.33	138.27	0.01	20.98	120.44
2/9/2025 9:00	7.23	70.33	147.63	0.53	21.06	115.24
2/9/2025 10:00	7.65	57.67	131.14	1.53	21.23	116.14
2/9/2025 11:00	7.38	48.33	130.35	0.25	20.80	116.33
2/9/2025 12:00	7.44	100.67	138.64	0.02	20.80	118.46
2/9/2025 13:00	7.59	49	145.76	0.01	21.08	129.73
2/9/2025 14:00	7.39	52.33	143.79	0.01	20.91	124.11
2/9/2025 15:00	7.39	43.67	138.67	0.01	21.23	124.20
2/9/2025 16:00	7.51	45.33	145.13	0.40	22.07	134.13
2/9/2025 17:00	7.63	58	154.49	0.01	22.59	151.67
2/9/2025 18:00	8.14	61	133.93	0.01	23.55	180.69
2/9/2025 19:00	7.91	45.33	135.96	0.01	22.44	166.11
2/9/2025 20:00	7.49	43	146.11	0.01	22.24	140.69
2/9/2025 21:00	7.77	48.33	154.88	0.01	22.64	138.18
2/9/2025 22:00	8.33	53.33	144.84	0.01	24.34	189.89
2/9/2025 23:00	7.91	59.33	145.8	0.01	22.76	154.09
3/9/2025 0:00	7.6	46	143.75	0.01	21.74	133.98
3/9/2025 1:00	7.61	56.33	150.46	0.01	21.58	131.13
3/9/2025 2:00	7.34	51	161.9	0.01	21.20	105.70
3/9/2025 3:00	6.99	48.67	145.38	0.19	20.20	95.45
3/9/2025 4:00	6.99	66.67	145.72	1.12	20.25	99.17
3/9/2025 5:00	7.58	56	143.5	0.06	21.80	133.20
3/9/2025 6:00	7.64	73.33	131.71	0.01	22.16	136.63
3/9/2025 7:00	7.69	40	133.44	0.02	21.72	133.93
3/9/2025 8:00	7.84	47.67	143.53	0.01	22.15	153.67
3/9/2025 9:00	7.57	37.67	141.49	0.01	22.36	139.77
3/9/2025 10:00	7.78	48	140.44	0.01	22.10	144.07
3/9/2025 11:00	7.4	36.33	155.41	0.01	21.51	123.76
3/9/2025 12:00	7.51	58.67	153.3	0.01	21.88	133.12
3/9/2025 13:00	7.2	41.67	153.84	0.01	21.32	121.58
3/9/2025 14:00	7.39	111.33	163.44	0.01	22.18	126.22
3/9/2025 15:00	7.48	189.33	146.65	0.01	22.82	128.70
3/9/2025 16:00	7.49	145.67	146.92	0.01	22.34	133.09

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
3/9/2025 17:00	7.81	156.33	165.16	0.01	23.02	149.68
3/9/2025 18:00	7.65	80.67	146.25	0.01	23.35	138.88
3/9/2025 19:00	7.81	72.67	148.42	0.01	23.82	139.73
3/9/2025 20:00	7.06	85.33	134.82	0.01	23.15	121.25
3/9/2025 21:00	7.75	95	140.84	0.01	23.11	133.45
3/9/2025 22:00	7.57	95.33	139.23	0.01	21.96	124.70
3/9/2025 23:00	7.42	83.67	124.83	0.01	22.27	128.74
4/9/2025 0:00	7.46	107.33	146.41	0.01	22.64	121.28
4/9/2025 1:00	7.81	88.67	146.62	0.01	23.32	133.15
4/9/2025 2:00	7.91	78.33	146.96	0.01	24.26	126.80
4/9/2025 3:00	7.86	133	144.92	0.01	23.90	142.61
4/9/2025 4:00	7.77	124	144.92	0.01	24.18	148.43
4/9/2025 5:00	7.54	97.67	147.71	0.01	23.31	132.19
4/9/2025 6:00	7.69	107.33	143.3	0.01	22.54	129.25
4/9/2025 7:00	7.54	127.67	143.28	0.01	22.83	137.73
4/9/2025 8:00	7.15	60.67	147.78	0.01	21.83	112.49
4/9/2025 9:00	7.37	87	143.18	0.01	21.71	108.48
4/9/2025 10:00	7.63	137	130.17	0.01	21.93	115.89
4/9/2025 11:00	7.6	93.33	131.38	0.01	22.25	117.69
4/9/2025 12:00	7.33	76.39	143.14	0.01	21.44	109.00
4/9/2025 13:00	7.49	125	144.25	0.01	22.21	114.14
4/9/2025 14:00	7.55	105	142.94	0.01	22.27	118.05
4/9/2025 15:00	7.51	108.67	141.82	0.01	22.18	124.68
4/9/2025 16:00	12.77	105.67	139.81	0.01	40.05	484.38
4/9/2025 17:00	9.66	117.33	158.71	0.02	28.40	415.47
4/9/2025 18:00	7.24	102.67	135.42	0.01	20.96	104.43
4/9/2025 19:00	7.19	101.67	141.52	0.01	21.32	113.52
4/9/2025 20:00	6.77	115.67	146.14	0.01	21.06	105.34
4/9/2025 21:00	7.3	112.33	135.42	0.01	22.15	115.24
4/9/2025 22:00	7.02	134.33	137.73	0.01	21.27	108.17
4/9/2025 23:00	7.18	119.67	128.52	0.01	22.22	114.96
5/9/2025 0:00	7.48	103.67	133.09	0.01	22.02	112.68
5/9/2025 1:00	7.79	92	128.57	0.01	23.49	123.53
5/9/2025 2:00	7.78	134.33	133.74	0.01	23.11	136.34
5/9/2025 3:00	7.76	109	130.06	0.01	22.67	138.71
5/9/2025 4:00	7.79	106.33	125.46	0.01	22.85	142.27
5/9/2025 5:00	7.96	86	133.01	0.01	23.14	159.85
5/9/2025 6:00	7.7	125.67	135.46	0.01	23.32	143.38
5/9/2025 7:00	7.99	119.67	138.03	0.01	23.22	154.40
5/9/2025 8:00	7.7	90.33	131.33	0.01	23.20	150.70
5/9/2025 9:00	8.43	95.33	130.94	0.01	24.86	187.97
5/9/2025 10:00	8.28	111.67	135.67	0.01	23.71	164.02
5/9/2025 11:00	7.94	121.67	143.33	0.02	22.51	153.04
5/9/2025 12:00	7.94	69.33	147.09	0.01	23.02	153.13
5/9/2025 13:00	8.37	64.33	134.64	0.01	24.24	164.15
5/9/2025 14:00	8.07	69	138.73	0.01	23.67	161.28
5/9/2025 15:00	7.47	103.67	143.41	0.01	22.25	138.09
5/9/2025 16:00	7.65	129	129.53	0.01	22.43	143.43
5/9/2025 17:00	7.35	119	148.66	0.11	21.19	128.35
5/9/2025 18:00	7.38	80.33	141.96	0.09	21.21	125.24
5/9/2025 19:00	7.52	143.33	148	0.56	21.16	118.80
5/9/2025 20:00	6.56	123.67	138.22	0.07	20.63	107.31
5/9/2025 21:00	7.2	88	133.19	0.02	21.70	121.74
5/9/2025 22:00	7.12	137	139.21	0.03	20.89	116.27
5/9/2025 23:00	7.03	114.1	129.71	0.01	20.66	113.10
6/9/2025 0:00	8.04	78.33	147.77	0.01	22.93	125.25
6/9/2025 1:00	9.01	83.93	137.22	0.01	25.55	131.77
6/9/2025 2:00	8.58	144.33	133.84	0.16	24.35	149.76
6/9/2025 3:00	9.01	140.33	131.57	0.54	26.01	161.20
6/9/2025 4:00	8.14	117.33	149.88	3.16	24.01	139.95
6/9/2025 5:00	8.21	100.98	138.06	1.80	22.77	136.52
6/9/2025 6:00	7.55	164	145.29	1.07	21.40	120.27
6/9/2025 7:00	7.57	99.67	140.51	0.51	21.32	119.21
6/9/2025 8:00	7.51	92	147.86	0.41	21.81	128.79
6/9/2025 9:00	7.63	96.67	146.98	0.54	22.05	120.79
6/9/2025 10:00	8.45	101	147.02	0.22	24.09	137.02
6/9/2025 11:00	7.84	106.33	130.75	0.53	22.09	131.74
6/9/2025 12:00	8.24	105.67	145.8	0.03	22.66	166.48
6/9/2025 13:00	7.93	89	140.61	0.00	22.23	152.25

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
6/9/2025 14:00	8.24	84.67	131.92	0.01	24.32	149.54
6/9/2025 15:00	7.89	103.67	135.63	0.01	22.62	128.67
6/9/2025 16:00	7.92	97.33	138.18	0.01	22.50	142.92
6/9/2025 17:00	7.73	116.67	143.13	0.01	21.78	152.27
6/9/2025 18:00	8.33	97.33	147.17	0.01	23.30	174.68
6/9/2025 19:00	7.86	149.33	130.22	0.01	22.80	143.53
6/9/2025 20:00	7.56	113	147.8	0.01	22.56	131.76
6/9/2025 21:00	7.99	141.67	140.07	0.01	24.49	133.39
6/9/2025 22:00	7.82	137	152.67	0.01	23.48	164.17
6/9/2025 23:00	7.99	99.33	151.7	0.01	23.97	172.94
7/9/2025 0:00	7.92	126.33	157.46	0.01	24.78	169.88
7/9/2025 1:00	7.85	110.33	137.92	0.01	24.10	140.25
7/9/2025 2:00	7.83	141.67	137.2	0.34	25.13	149.40
7/9/2025 3:00	7.37	121	141.8	0.27	23.74	129.29
7/9/2025 4:00	7.46	108	131.78	0.51	23.82	124.19
7/9/2025 5:00	7.85	148.33	141.11	0.01	23.57	126.70
7/9/2025 6:00	7.71	147	148.04	0.17	23.22	136.48
7/9/2025 7:00	7.52	109.33	133.41	0.27	23.32	115.63
7/9/2025 8:00	7.18	109.33	135.79	0.26	22.28	104.43
7/9/2025 9:00	7.2	98.03	143.72	0.26	22.23	101.44
7/9/2025 10:00	7.46	109.67	138.78	0.14	23.28	108.06
7/9/2025 11:00	8.13	106	132.9	0.01	24.92	119.76
7/9/2025 12:00	7.96	105.25	134.52	0.16	24.05	116.97
7/9/2025 13:00	7.28	105.67	133.35	0.06	22.35	100.51
7/9/2025 14:00	6.69	72.67	164.24	0.13	21.16	88.16
7/9/2025 15:00	6.78	114.75	165.08	0.15	20.90	89.12
7/9/2025 16:00	6.56	121	157.2	0.01	21.05	86.79
7/9/2025 17:00	6.62	136.33	150.82	0.00	22.40	89.72
7/9/2025 18:00	7.04	110.67	157.39	0.00	23.41	98.83
7/9/2025 19:00	7.38	136	136.41	0.01	26.34	109.07
7/9/2025 20:00	7.47	107	154.61	0.00	28.20	139.45
7/9/2025 21:00	7.77	109.67	154.58	0.01	26.57	145.11
7/9/2025 22:00	7.51	128.33	155.71	0.01	23.82	135.97
7/9/2025 23:00	7.49	116.27	157.43	0.00	22.37	123.52
8/9/2025 0:00	7.33	109	137.68	0.01	21.56	116.38
8/9/2025 1:00	7.68	77.33	130.7	0.01	22.64	109.78
8/9/2025 2:00	7.72	111.67	131.72	0.10	22.18	110.06
8/9/2025 3:00	7.64	85.33	137.13	0.46	22.29	112.49
8/9/2025 4:00	7.08	84	155.38	0.12	21.79	135.94
8/9/2025 5:00	7.51	100.33	156.76	0.01	22.17	140.58
8/9/2025 6:00	7.47	119.33	157.04	0.01	22.77	151.35
8/9/2025 7:00	7.36	115.41	159.92	0.01	22.43	129.89
8/9/2025 8:00	7.44	94.1	161.75	0.01	22.54	131.81
8/9/2025 9:00	6.09	84	139	0.02	20.77	148.85
8/9/2025 10:00	7.19	75.33	155.84	0.01	22.02	108.28
8/9/2025 11:00	7.04	100	159.64	0.01	21.31	95.22
8/9/2025 12:00	7	76.67	137.4	0.01	21.69	91.89
8/9/2025 13:00	6.76	85	162.8	0.00	21.54	89.60
8/9/2025 14:00	7.2	82.67	158.88	0.01	22.78	98.21
8/9/2025 15:00	6.73	85.33	164.52	0.01	22.57	89.65
8/9/2025 16:00	6.72	1383.67	133.08	0.01	22.79	86.34
8/9/2025 17:00	7.1	131	140.32	0.00	25.87	97.48
8/9/2025 18:00	8.73	123	138.16	0.00	27.62	172.11
8/9/2025 19:00	8.13	141	162.31	0.01	24.73	153.20
8/9/2025 20:00	7.21	114.67	135.83	0.01	22.04	106.56
8/9/2025 21:00	7.63	130.33	135.99	0.01	22.68	129.98
8/9/2025 22:00	7.82	92.67	132.25	0.01	22.53	126.57
8/9/2025 23:00	8.21	83.73	130.96	0.01	23.66	137.34
9/9/2025 0:00	8.29	93.33	148.37	0.00	24.39	148.70
9/9/2025 1:00	8.24	113	137.79	0.01	24.41	146.28
9/9/2025 2:00	7.95	125.67	149.3	0.01	23.33	143.81
9/9/2025 3:00	7.73	93.67	142.42	0.04	23.24	148.28
9/9/2025 4:00	7.97	109.67	131.34	0.01	22.74	167.40
9/9/2025 5:00	7.63	134.67	141.89	0.03	22.42	143.20
9/9/2025 6:00	8.16	89.33	144.66	0.01	23.58	160.59
9/9/2025 7:00	8.73	148.33	132.89	0.01	25.53	173.85
9/9/2025 8:00	11.81	95	146.8	0.01	36.13	449.65
9/9/2025 9:00	7.64	150.67	149.55	0.01	23.42	141.70
9/9/2025 10:00	8.29	122	144.45	0.01	24.89	170.05

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
9/9/2025 11:00	9.76	120.66	145.54	0.01	28.71	367.27
9/9/2025 12:00	9.13	70	146.35	0.01	25.82	240.67
9/9/2025 13:00	9.18	102	157.93	0.01	26.45	256.42
9/9/2025 14:00	8.7	59.33	145.72	0.01	24.80	171.68
9/9/2025 15:00	8.89	115.67	161.14	0.01	24.18	132.78
9/9/2025 16:00	8.37	90.33	146.42	0.01	22.75	86.05
9/9/2025 17:00	9.06	107.33	149.07	0.01	25.20	190.81
9/9/2025 18:00	7.89	146.33	144.88	0.01	22.34	140.10
9/9/2025 19:00	7.37	115.33	145.37	0.01	21.47	120.04
9/9/2025 20:00	7.19	156.72	149.52	0.01	21.48	111.74
9/9/2025 21:00	7.25	128.67	144.22	0.01	21.89	116.88
9/9/2025 22:00	7.27	83	145.86	0.06	21.78	98.61
9/9/2025 23:00	7.29	107	164.28	0.01	21.09	119.05
10/9/2025 0:00	6.92	90	162.78	0.02	21.00	106.07
10/9/2025 1:00	7.32	114.33	149.08	0.02	21.63	114.27
10/9/2025 2:00	7.86	108.33	149.55	0.01	23.65	127.06
10/9/2025 3:00	8.13	132	145.7	0.01	23.63	140.72
10/9/2025 4:00	7.63	121.33	138.5	0.01	22.59	125.27
10/9/2025 5:00	7.39	129.67	142.29	0.01	21.63	117.98
10/9/2025 6:00	7.2	100.67	144.2	0.02	21.26	110.15
10/9/2025 7:00	6.87	99.33	148.55	0.02	20.34	98.85
10/9/2025 8:00	6.96	109.33	145.82	0.02	20.30	99.83
10/9/2025 9:00	6.54	55.33	163.33	0.10	20.01	87.28
10/9/2025 10:00	7.27	79	163.71	0.02	20.64	99.29
10/9/2025 11:00	6.95	70.67	164.11	0.02	20.18	93.49
10/9/2025 12:00	7.04	105	136.55	0.01	20.57	95.22
10/9/2025 13:00	7.24	103.33	130.42	0.01	21.10	102.89
10/9/2025 14:00	6.73	85.33	146.43	0.01	20.13	92.64
10/9/2025 15:00	7.59	80.67	144.82	0.01	21.96	119.72
10/9/2025 16:00	6.65	78.67	158.17	0.01	19.95	93.18
10/9/2025 17:00	6.39	90	156.45	0.01	19.85	94.11
10/9/2025 18:00	6.55	96	159.3	0.02	19.99	89.86
10/9/2025 19:00	6.82	133.67	149.1	0.15	19.84	83.08
10/9/2025 20:00	6.98	135.67	149.18	0.06	20.35	91.92
10/9/2025 21:00	6.89	143.33	147.96	1.04	21.05	82.94
10/9/2025 22:00	6.91	91.33	147.04	0.19	20.10	88.98
10/9/2025 23:00	7.44	169.83	143.31	0.01	21.28	113.95
11/9/2025 0:00	7.49	126.33	140.36	0.01	21.56	117.12
11/9/2025 1:00	7.44	107.67	138.05	0.24	22.04	112.11
11/9/2025 2:00	8.37	121.67	140.9	0.01	24.43	143.38
11/9/2025 3:00	8.18	132.67	138.8	0.01	24.74	176.90
11/9/2025 4:00	7.72	113.67	130.67	0.01	23.59	134.69
11/9/2025 5:00	7.4	130.16	146.55	0.04	21.51	115.58
11/9/2025 6:00	7.3	123.67	128.12	0.01	21.25	108.90
11/9/2025 7:00	7.19	87.33	135.91	0.03	21.04	110.35
11/9/2025 8:00	7.44	122.33	137.46	0.01	21.54	116.74
11/9/2025 9:00	7.28	124.33	145.28	0.50	21.79	125.16
11/9/2025 10:00	7.61	92.67	145.46	0.29	22.50	129.98
11/9/2025 11:00	7.57	113.67	142.06	0.06	21.96	127.28
11/9/2025 12:00	7.29	111.48	132.9	0.51	21.14	119.21
11/9/2025 13:00	7.79	124	140.23	0.02	22.65	131.22
11/9/2025 14:00	7.74	107.33	147.86	0.01	21.97	122.45
11/9/2025 15:00	7.5	130	139.98	0.01	22.13	118.25
11/9/2025 16:00	7.24	63	148.63	0.01	21.00	102.63
11/9/2025 17:00	7.06	106.33	163.63	0.01	20.72	91.83
11/9/2025 18:00	7.51	122	145.61	0.01	21.44	99.48
11/9/2025 19:00	7.41	137.33	149.29	0.02	21.33	98.39
11/9/2025 20:00	7.28	79	163.18	0.02	21.38	100.56
11/9/2025 21:00	7.52	119	157.96	0.01	22.49	109.17
11/9/2025 22:00	7.96	110	142.49	0.01	22.79	126.64
11/9/2025 23:00	8.05	137.67	144.77	0.01	22.83	134.74
12/9/2025 0:00	8.41	136.67	147.94	0.01	23.58	135.16
12/9/2025 1:00	7.59	114.67	146.48	0.01	22.17	122.49
12/9/2025 2:00	7.87	116.33	148.92	0.01	22.73	130.01
12/9/2025 3:00	7.99	104.67	145.06	0.01	23.62	125.89
12/9/2025 4:00	8.05	107.67	143.85	0.01	23.27	121.46
12/9/2025 5:00	8.13	135.67	144.15	0.01	23.45	125.89
12/9/2025 6:00	7.94	113.44	144.54	0.01	22.63	118.70
12/9/2025 7:00	7.94	131	144.07	0.01	22.99	121.13

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
12/9/2025 8:00	7.57	57	147.37	0.01	22.59	112.61
12/9/2025 9:00	7.31	102.33	142.37	0.01	23.17	116.93
12/9/2025 10:00	8.11	109.67	139.64	0.01	24.24	129.39
12/9/2025 11:00	7.88	57.67	148.38	0.01	23.28	127.35
12/9/2025 12:00	7.45	113.44	149.47	0.01	21.97	109.07
12/9/2025 13:00	7.55	107	143.6	0.01	21.66	103.94
12/9/2025 14:00	7.62	141.67	144.06	0.03	22.03	112.43
12/9/2025 15:00	7.83	137.33	147.36	0.01	22.57	115.95
12/9/2025 16:00	7.39	124.59	141.24	0.01	21.32	97.24
12/9/2025 17:00	7.53	96	142.04	0.01	21.66	106.71
12/9/2025 18:00	7.69	148.67	139.98	0.01	22.35	115.96
12/9/2025 19:00	7.5	83.33	140.59	0.01	23.44	131.24
12/9/2025 20:00	7.73	124.19	134.73	0.53	21.95	121.78
12/9/2025 21:00	7.3	157.67	147.33	2.71	21.12	108.28
12/9/2025 22:00	7.36	111.33	140.8	3.43	20.81	104.82
12/9/2025 23:00	7.25	103.67	137.55	0.48	20.72	107.81
13/09/2025 00:00	7.52	89.67	136.75	0.31	21.46	112.03
13/09/2025 01:00	7.35	125.67	151.3	1.12	20.75	103.64
13/09/2025 02:00	7.35	143.33	138.61	1.48	20.68	102.53
13/09/2025 03:00	7.73	113.33	143.43	0.66	21.58	117.76
13/09/2025 04:00	7.41	126	136.77	0.33	20.98	105.12
13/09/2025 05:00	7.91	110.49	120.93	0.18	22.06	120.76
13/09/2025 06:00	7.83	111.67	129.75	0.58	22.15	117.22
13/09/2025 07:00	8.03	122.3	139.56	0.85	22.94	135.43
13/09/2025 08:00	7.73	130.67	132.95	1.17	21.67	118.69
13/09/2025 09:00	7.64	128.67	132.1	2.75	22.25	113.38
13/09/2025 10:00	7.97	108.33	130.41	2.86	22.12	121.37
13/09/2025 11:00	8.16	102	144.28	0.28	22.58	134.05
13/09/2025 12:00	8.12	108.2	147.26	0.03	22.61	137.18
13/09/2025 13:00	8.05	124	139.64	0.01	22.77	125.34
13/09/2025 14:00	7.95	68.67	138.82	0.01	22.85	121.69
13/09/2025 15:00	7.97	91.33	144.93	0.01	23.93	138.23
13/09/2025 16:00	7.6	161.33	145.61	0.01	22.18	126.55
13/09/2025 17:00	7.58	132.13	145.2	0.03	21.84	127.29
13/09/2025 18:00	7.42	115.74	143.66	0.10	21.09	133.75
13/09/2025 19:00	7.52	114.67	129.83	0.40	21.54	120.47
13/09/2025 20:00	6.69	121.33	132.22	0.80	20.39	100.90
13/09/2025 21:00	7.08	124	136.83	0.88	20.77	103.55
13/09/2025 22:00	6.97	92	138.69	0.36	20.51	109.11
13/09/2025 23:00	7.17	86.33	137.16	0.04	20.75	115.79
14/09/2025 00:00	7.58	135	138.9	0.02	21.62	116.10
14/09/2025 01:00	7.91	105.67	138.98	0.01	22.85	125.57
14/09/2025 02:00	7.95	122.67	139.93	0.02	22.62	126.29
14/09/2025 03:00	8.05	114	143.35	0.11	22.33	134.57
14/09/2025 04:00	8.29	114.33	139.67	0.01	22.98	140.56
14/09/2025 05:00	8.79	104.67	144.91	0.05	24.43	156.96
14/09/2025 06:00	8.04	118.33	142.79	0.23	22.10	121.21
14/09/2025 07:00	7.82	71.67	143.41	0.69	21.66	116.26
14/09/2025 08:00	7.69	91.33	142.86	0.08	21.81	116.53
14/09/2025 09:00	7.79	103.33	142.37	0.04	22.21	130.73
14/09/2025 10:00	8.02	80.67	138.12	1.89	22.10	116.02
14/09/2025 11:00	7.78	119.33	131.26	3.09	21.62	111.38
14/09/2025 12:00	8.44	103.67	144.05	0.00	23.30	155.57
14/09/2025 13:00	8.39	99	146.84	0.01	23.02	149.82
14/09/2025 14:00	8.64	107.33	130.87	0.01	23.91	155.62
14/09/2025 15:00	7.93	110	141.68	0.01	22.04	125.07
14/09/2025 16:00	8.19	83.67	142.86	0.00	22.96	136.23
14/09/2025 17:00	8.39	118.36	138.27	0.00	23.36	148.60
14/09/2025 18:00	8.54	138.33	138.82	0.01	23.61	146.63
14/09/2025 19:00	8.36	114.33	140.45	0.01	23.49	138.11
14/09/2025 20:00	8.17	91.33	146.58	0.12	23.09	133.49
14/09/2025 21:00	8.17	119.67	134.93	0.93	22.25	117.04
14/09/2025 22:00	8.51	161.67	133.69	0.33	23.30	132.77
14/09/2025 23:00	8.53	82	140.37	2.01	23.08	129.32
15/09/2025 00:00	8.08	139.33	147.38	2.92	21.92	134.92
15/09/2025 01:00	7.96	90	147.39	2.68	21.73	128.67
15/09/2025 02:00	8.38	120.67	139.57	0.67	22.79	136.44
15/09/2025 03:00	8.07	127	140.49	0.03	22.14	135.61
15/09/2025 04:00	7.96	154.33	139.11	0.01	21.91	144.03

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
15/09/2025 05:00	8.02	126.33	132.5	0.04	21.90	139.53
15/09/2025 06:00	7.8	124	136.08	0.17	21.57	126.77
15/09/2025 07:00	7.6	101.33	141.81	0.19	21.22	130.75
15/09/2025 08:00	7.47	94	147.72	0.55	21.01	120.83
15/09/2025 09:00	6.94	111	165.27	2.55	20.87	117.34
15/09/2025 10:00	10.11	118.67	144.28	0.94	28.89	289.76
15/09/2025 11:00	10.56	103.61	142.61	0.00	29.19	354.34
15/09/2025 12:00	7.82	96.67	141	0.00	21.72	147.37
15/09/2025 13:00	7.49	114	146.79	0.37	20.94	125.13
15/09/2025 14:00	7.57	138	140.51	0.94	21.00	123.55
15/09/2025 15:00	8.04	105	133.35	0.43	22.45	138.17
15/09/2025 16:00	7.85	85.67	140.47	1.10	21.45	129.84
15/09/2025 17:00	7.93	83	142.34	2.14	21.47	117.11
15/09/2025 18:00	7.47	113.33	143.3	3.78	20.77	98.90
15/09/2025 19:00	7.68	137	138.8	3.60	21.47	100.20
15/09/2025 20:00	7.68	106.33	147.25	0.97	21.55	120.96
15/09/2025 21:00	9.16	117	145.43	0.16	25.11	170.70
15/09/2025 22:00	8.59	105.67	132.54	0.24	23.04	152.94
15/09/2025 23:00	8.29	77.33	142.98	1.24	22.23	139.81
16/09/2025 00:00	8.55	104	141.62	1.05	22.69	161.30
16/09/2025 01:00	8.11	98.33	148.64	1.91	22.06	136.84
16/09/2025 02:00	8.02	116.72	140.63	1.89	22.05	141.43
16/09/2025 03:00	7.99	107	145.08	3.15	21.61	135.23
16/09/2025 04:00	7.93	114	146.62	3.08	21.59	135.01
16/09/2025 05:00	8	91	143.31	4.10	21.70	120.09
16/09/2025 06:00	8.26	168.67	141.73	3.12	22.12	136.93
16/09/2025 07:00	7.68	116	148.88	5.81	21.06	113.63
16/09/2025 08:00	7.71	124	146.86	7.02	21.09	112.16
16/09/2025 09:00	7.67	119.33	146.43	6.44	21.28	116.07
16/09/2025 10:00	8.44	105.67	140.14	2.69	22.91	137.03
16/09/2025 11:00	8.2	96	140.81	1.53	21.86	139.23
16/09/2025 12:00	7.65	100.33	140.64	3.46	20.76	120.65
16/09/2025 13:00	8.13	72.33	140.63	3.18	22.00	137.92
16/09/2025 14:00	7.86	123	143.58	2.85	21.19	141.48
16/09/2025 15:00	7.73	86.67	140.81	5.92	21.05	132.04
16/09/2025 16:00	7.64	94.67	146.44	3.75	20.92	128.58
16/09/2025 17:00	7.65	104.33	123.62	3.62	21.00	136.59
16/09/2025 18:00	7.49	87.67	148.86	4.10	20.74	126.41
16/09/2025 19:00	7.97	145.67	140.32	1.66	21.59	133.00
16/09/2025 20:00	7.38	126.33	149.37	5.75	20.70	116.08
16/09/2025 21:00	7.52	119.67	149.61	8.76	20.84	108.72
16/09/2025 22:00	7.36	96.67	148.59	6.12	20.97	112.43
16/09/2025 23:00	7.82	137.67	147.51	4.61	21.24	123.99
17/09/2025 00:00	8.28	107	132.71	3.51	22.09	144.60
17/09/2025 01:00	8.51	122	138.17	3.18	22.70	137.24
17/09/2025 02:00	8.05	120.67	144.54	3.07	21.68	133.18
17/09/2025 03:00	7.87	129.33	143.53	3.56	21.33	130.13
17/09/2025 04:00	8.32	124	141.72	1.31	22.70	156.49
17/09/2025 05:00	9.33	112.67	139.78	0.06	24.70	190.81
17/09/2025 06:00	8.66	141.31	144.84	0.01	22.97	164.43
17/09/2025 07:00	8.32	93	146.75	0.01	22.16	141.89
17/09/2025 08:00	8.03	98.67	132.1	0.90	21.57	120.81
17/09/2025 09:00	8.77	103.67	144.08	1.68	24.24	196.33
17/09/2025 10:00	8.4	108	148.22	3.73	22.58	170.90
17/09/2025 11:00	8.23	76.33	147.88	6.49	22.13	172.11
17/09/2025 12:00	7.96	102	146.08	5.58	21.74	153.92
17/09/2025 13:00	7.59	116.33	147.74	5.18	20.98	148.92
17/09/2025 14:00	7.83	70	141.46	3.69	21.46	181.27
17/09/2025 15:00	8.98	94.67	138	0.87	23.84	210.41
17/09/2025 16:00	8.53	90.67	146.01	0.13	22.82	185.31
17/09/2025 17:00	8.72	128.67	147.41	0.03	23.07	212.19
17/09/2025 18:00	8.14	137.33	147.04	0.01	22.09	187.72
17/09/2025 19:00	8.29	93.67	162.24	0.01	22.79	215.92
17/09/2025 20:00	8.06	116.33	144.17	0.01	22.67	180.28
17/09/2025 21:00	7.84	128.67	149.38	0.37	21.68	163.91
17/09/2025 22:00	7.94	127.67	131.67	0.22	21.67	152.41
17/09/2025 23:00	7.61	142.33	134.99	0.95	20.96	140.09
18/09/2025 00:00	8.31	123	134.96	0.51	22.25	160.20
18/09/2025 01:00	8.27	148.67	142.71	0.12	22.22	162.44

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
18/09/2025 02:00	8.16	110.67	141.13	0.05	22.09	160.29
18/09/2025 03:00	8.89	97.33	145.1	0.02	23.95	188.01
18/09/2025 04:00	10.29	138.33	146.08	0.01	28.41	453.79
18/09/2025 05:00	8.19	108.33	142.92	0.01	22.16	163.07
18/09/2025 06:00	8.18	96	149.64	0.03	22.10	159.24
18/09/2025 07:00	8.15	119.33	142.63	0.20	21.86	157.33
18/09/2025 08:00	8.85	56.39	163.71	1.36	24.07	244.57
18/09/2025 09:00	8.46	76	141.84	2.22	23.09	187.93
18/09/2025 10:00	8.9	130.67	146.17	0.98	24.53	216.20
18/09/2025 11:00	8.18	110	142.78	1.78	22.19	172.45
18/09/2025 12:00	8.38	98.33	140.24	3.10	22.68	187.23
18/09/2025 13:00	9.15	106	141.4	3.39	25.06	289.34
18/09/2025 14:00	10.5	73.33	135.72	0.01	41.12	439.50
18/09/2025 15:00	12.13	92	150.08	0.01	34.33	457.06
18/09/2025 16:00	8.58	110.33	148.04	0.26	23.10	195.73
18/09/2025 17:00	11.06	100.33	143.41	0.04	30.45	438.87
18/09/2025 18:00	11.04	89.33	165.35	0.01	30.75	407.41
18/09/2025 19:00	7.69	95.33	163.16	2.09	21.17	190.03
18/09/2025 20:00	7.67	122.33	146.98	2.53	21.77	191.33
18/09/2025 21:00	8.15	100.33	135.07	3.33	22.25	184.84
18/09/2025 22:00	7.95	130.33	144.54	1.62	22.55	175.90
18/09/2025 23:00	8.17	121	141.93	0.01	23.12	185.23
19/09/2025 00:00	8.08	108.67	143.41	0.02	22.45	187.29
19/09/2025 01:00	8.04	129.33	144.27	0.01	22.41	170.02
19/09/2025 02:00	8.08	116.33	146.93	0.01	22.09	174.76
19/09/2025 03:00	8.18	87.33	148.28	0.01	23.43	171.72
19/09/2025 04:00	8.1	111	140.12	0.01	22.56	159.40
19/09/2025 05:00	7.76	123.33	140.49	0.01	21.73	149.23
19/09/2025 06:00	8.46	113.67	159.41	0.01	23.05	226.90
19/09/2025 07:00	8.41	139.67	140.96	0.01	22.85	192.57
19/09/2025 08:00	8.04	92	144.5	0.01	23.36	172.57
19/09/2025 09:00	8.57	94.33	142.88	0.01	25.04	178.84
19/09/2025 10:00	8.27	74.33	140.29	0.01	23.53	190.35
19/09/2025 11:00	8.06	91.33	141.84	0.01	22.82	174.21
19/09/2025 12:00	8.09	125.67	148.71	0.01	23.23	170.31
19/09/2025 13:00	8.13	159.67	146.89	0.00	23.80	196.92
19/09/2025 14:00	8.04	89.33	146.68	0.01	23.79	192.49
19/09/2025 15:00	8.29	103.61	147.02	0.00	24.74	193.01
19/09/2025 16:00	8.53	82.67	142.9	0.00	25.48	197.64
19/09/2025 17:00	7.84	78	146.84	0.01	22.05	136.74
19/09/2025 18:00	7.87	101	140.73	0.01	22.32	153.53
19/09/2025 19:00	8.01	146.89	142.33	0.01	22.26	164.29
19/09/2025 20:00	7.34	107.67	146.58	0.01	21.77	142.24
19/09/2025 21:00	8.2	133.67	145.1	0.00	23.14	171.72
19/09/2025 22:00	8.27	105	144.76	0.00	23.30	196.49
19/09/2025 23:00	8.8	106.33	147.39	0.01	25.11	208.22
20/09/2025 00:00	8.61	145.33	149.19	0.01	24.08	197.85
20/09/2025 01:00	8.36	139	147.83	0.01	23.35	162.47
20/09/2025 02:00	8.79	126.33	146.06	0.01	24.86	182.60
20/09/2025 03:00	8.63	106.33	144.63	0.01	23.76	182.02
20/09/2025 04:00	8.5	126.67	149.3	0.01	23.02	190.89
20/09/2025 05:00	8.69	116.67	148.62	0.01	23.63	196.19
20/09/2025 06:00	8.58	116	144.23	0.01	23.20	197.64
20/09/2025 07:00	8.42	109.33	146.6	0.01	22.78	174.33
20/09/2025 08:00	7.93	78	148.08	0.09	22.28	164.90
20/09/2025 09:00	8.42	74.67	141.82	0.08	22.96	182.76
20/09/2025 10:00	8.34	127.67	139.07	0.01	22.65	186.61
20/09/2025 11:00	8.49	132.67	146.25	0.03	22.98	180.08
20/09/2025 12:00	8.25	127	146.66	0.02	22.30	164.38
20/09/2025 13:00	8.14	118.33	142.38	0.01	22.41	163.52
20/09/2025 14:00	8.17	80.33	133.84	0.02	22.64	164.83
20/09/2025 15:00	7.83	121.67	131.92	0.05	21.80	152.37
20/09/2025 16:00	7.77	129	131.94	0.21	21.36	150.18
20/09/2025 17:00	7.6	92.13	134.44	1.60	21.06	151.01
20/09/2025 18:00	7.76	115	138.94	1.19	21.52	156.99
20/09/2025 19:00	7.76	88.67	130.93	0.52	21.76	162.26
20/09/2025 20:00	7.83	107.67	134.68	0.01	22.06	160.71
20/09/2025 21:00	7.71	136	133.83	0.18	22.49	167.67
20/09/2025 22:00	8.26	119.67	148.13	0.01	23.43	182.03

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
20/09/2025 23:00	8.54	114.24	148.39	0.01	23.64	193.75
21/09/2025 00:00	9.09	110.82	142.39	0.01	24.92	218.32
21/09/2025 01:00	9.12	116.67	134.03	0.01	24.46	225.22
21/09/2025 02:00	8.7	135	135.12	0.01	23.67	210.83
21/09/2025 03:00	8.59	108.67	136.78	0.15	23.46	222.55
21/09/2025 04:00	8.62	131	130.78	0.45	23.17	233.06
21/09/2025 05:00	8.47	106	150.93	0.90	23.16	223.64
21/09/2025 06:00	8.52	126.33	149.75	0.70	23.27	223.98
21/09/2025 07:00	8.39	99.33	148.5	0.09	23.34	229.17
21/09/2025 08:00	7.93	102.95	157.09	0.01	23.26	198.04
21/09/2025 09:00	8.37	90.67	152.28	0.01	24.35	291.30
21/09/2025 10:00	8.82	72	152.1	0.00	25.31	285.84
21/09/2025 11:00	8.37	81.67	159.54	0.00	24.10	200.06
21/09/2025 12:00	8.39	78.67	146.55	0.00	23.17	196.22
21/09/2025 13:00	8.12	90	149.78	0.00	22.42	173.97
21/09/2025 14:00	8.69	105	147.02	0.01	23.71	170.69
21/09/2025 15:00	8.67	81.33	142.53	0.01	23.80	208.21
21/09/2025 16:00	8.88	94.33	140.85	0.00	24.09	237.48
21/09/2025 17:00	9.22	71.33	161.04	0.00	25.30	319.14
21/09/2025 18:00	8.69	144.59	140.02	0.00	24.40	210.15
21/09/2025 19:00	8.42	134	149.53	0.00	23.89	174.31
21/09/2025 20:00	8.03	81.33	145.74	0.00	23.16	165.90
21/09/2025 21:00	8.44	102.67	120.88	0.01	23.20	173.53
21/09/2025 22:00	8.51	126.67	124.64	0.01	23.13	175.04
21/09/2025 23:00	8.47	78.67	145.36	0.01	22.67	165.62
22/09/2025 00:00	8.58	121.67	157.26	1.44	23.50	180.75
22/09/2025 01:00	8.82	81	141.44	0.43	24.89	209.15
22/09/2025 02:00	9.4	91.33	144.44	0.00	26.65	247.85
22/09/2025 03:00	9.37	120.67	149.11	0.00	26.43	239.43
22/09/2025 04:00	8.59	131	140.24	0.01	23.92	210.37
22/09/2025 05:00	8.79	107	140.05	0.01	23.89	222.12
22/09/2025 06:00	9.06	156.67	147.3	0.01	24.70	242.44
22/09/2025 07:00	8.65	92.33	144.18	0.01	23.64	211.18
22/09/2025 08:00	8.89	80.33	142.57	0.01	24.54	236.58
22/09/2025 09:00	9.92	82.67	142.4	0.01	27.51	323.92
22/09/2025 10:00	9.32	91.33	149.56	0.00	25.84	308.76
22/09/2025 11:00	9.25	98.33	140.41	0.00	25.22	288.00
22/09/2025 12:00	9.37	60.67	144.19	0.00	25.25	286.79
22/09/2025 13:00	8.93	104	147.35	0.00	25.05	274.92
22/09/2025 14:00	9.26	77	165.08	0.00	27.27	313.69
22/09/2025 15:00	9.11	87	163.21	0.00	25.65	293.76
22/09/2025 16:00	8.92	169.51	147.16	0.01	25.58	267.84
22/09/2025 17:00	9.07	100.33	162.28	0.00	25.96	316.62
22/09/2025 18:00	9.13	120	140.05	0.95	25.35	289.85
22/09/2025 19:00	8.5	134.33	148.37	4.02	23.45	213.80
22/09/2025 20:00	9.13	111.33	149	1.23	26.66	227.68
22/09/2025 21:00	8.68	91.15	148.75	2.95	23.95	232.28
22/09/2025 22:00	8.96	90.33	149.26	0.16	24.89	243.29
22/09/2025 23:00	8.34	90	145.58	0.06	23.33	218.33
23/09/2025 00:00	8.62	101.33	165.12	0.01	26.81	264.72
23/09/2025 01:00	8.79	137.67	162.97	0.01	26.02	272.09
23/09/2025 02:00	8.67	87	163.05	0.01	25.92	258.12
23/09/2025 03:00	10.18	100.33	145.14	0.01	30.37	399.34
23/09/2025 04:00	9.09	107.67	146.86	0.01	26.29	253.23
23/09/2025 05:00	8.64	117.7	149.97	0.01	24.09	242.04
23/09/2025 06:00	8.79	119.33	146.9	0.01	24.87	273.93
23/09/2025 07:00	8.68	93	145.73	0.00	24.28	242.70
23/09/2025 08:00	8.05	70.33	162.93	0.01	23.79	198.46
23/09/2025 09:00	8.66	81.67	144.82	0.00	24.67	185.18
23/09/2025 10:00	8.29	92.33	149.93	0.01	23.04	178.38
23/09/2025 11:00	8.26	86.33	144.29	0.02	22.75	174.52
23/09/2025 12:00	8.15	72.33	140.98	0.04	23.67	177.11
23/09/2025 13:00	8.28	78	144.92	0.04	25.41	179.82
23/09/2025 14:00	9.81	80.67	141.97	0.00	31.14	247.31
23/09/2025 15:00	8.95	104.26	140.81	0.00	27.15	238.99
23/09/2025 16:00	8.49	91.33	147.63	0.00	26.81	205.33
23/09/2025 17:00	8.54	94	149.11	0.00	27.74	214.20
23/09/2025 18:00	8.58	82.67	144.26	0.01	25.99	196.83
23/09/2025 19:00	8.73	94.33	146.45	0.01	25.91	199.81

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
23/09/2025 20:00	8.62	133.33	140	0.01	24.67	205.90
23/09/2025 21:00	8.96	148.85	146.52	0.01	26.60	239.89
23/09/2025 22:00	8.8	163.33	143.48	0.01	25.46	204.71
23/09/2025 23:00	9.1	131.33	147.71	0.01	25.07	217.62
24/09/2025 00:00	8.77	131.33	143.85	0.01	24.70	216.01
24/09/2025 01:00	9.06	110.33	148.79	0.01	25.70	248.08
24/09/2025 02:00	8.61	93.67	143.32	0.01	23.92	205.09
24/09/2025 03:00	8.74	91.67	143.03	0.01	24.43	227.65
24/09/2025 04:00	8.78	136.45	143.77	0.01	24.61	230.04
24/09/2025 05:00	8.83	100.67	147.9	0.01	25.07	252.26
24/09/2025 06:00	8.57	108.33	146.55	0.01	23.83	214.84
24/09/2025 07:00	8.81	100.33	146.08	0.01	24.46	239.67
24/09/2025 08:00	8.57	100	147.35	0.01	23.62	214.06
24/09/2025 09:00	8.05	94.1	162.26	0.01	25.19	182.64
24/09/2025 10:00	8.6	80.66	149.98	0.01	25.49	186.66
24/09/2025 11:00	8.6	113.33	140.01	0.01	23.82	173.46
24/09/2025 12:00	8.11	73	145.91	0.01	22.41	156.47
24/09/2025 13:00	7.66	88	151.58	0.01	22.96	158.54
24/09/2025 14:00	7.84	79.33	158.08	0.01	23.51	165.66
24/09/2025 15:00	8.07	116	157.84	0.01	23.94	172.79
24/09/2025 16:00	7.71	73	150.45	0.01	23.83	178.37
24/09/2025 17:00	8.09	113.67	164.14	0.01	26.25	171.94
24/09/2025 18:00	9.91	107.67	142.53	0.01	27.77	174.57
24/09/2025 19:00	8.72	116.72	154.12	0.01	25.07	190.25
24/09/2025 20:00	8.3	126	146.47	0.01	23.63	166.47
24/09/2025 21:00	8.43	131	142.79	0.01	25.05	151.43
24/09/2025 22:00	8.74	81	151.86	0.03	25.18	190.69
24/09/2025 23:00	8.16	142.37	143.31	0.01	22.80	169.55
25/09/2025 00:00	8.37	102.67	149.66	0.01	23.43	198.82
25/09/2025 01:00	8.28	126.33	145.67	0.01	23.02	203.94
25/09/2025 02:00	8.46	109.33	143.84	0.01	23.40	210.60
25/09/2025 03:00	8.47	135.33	146.94	0.01	23.44	213.21
25/09/2025 04:00	8.52	109.67	145.98	0.01	23.78	207.28
25/09/2025 05:00	8.54	108.33	148.78	0.01	23.40	200.13
25/09/2025 06:00	8.47	129	141.2	0.01	23.37	219.89
25/09/2025 07:00	8.54	109.67	143.95	0.01	23.55	210.29
25/09/2025 08:00	9.18	66.33	148.26	0.01	24.90	222.46
25/09/2025 09:00	10.5	100.33	148.19	0.06	30.75	271.44
25/09/2025 10:00	10.07	75	144.92	0.12	27.40	182.76
25/09/2025 11:00	9.56	70	149.26	0.01	25.81	176.65
25/09/2025 12:00	9.28	86.67	147.57	0.12	25.07	154.18
25/09/2025 13:00	8.99	91.33	140.13	0.65	24.08	106.84
25/09/2025 14:00	9.5	99.33	149.1	0.06	25.56	144.93
25/09/2025 15:00	10.58	89	143.89	0.23	28.82	244.84
25/09/2025 16:00	8.89	103.33	159.43	0.01	24.12	140.42
25/09/2025 17:00	9.04	106	146.84	0.01	24.77	201.04
25/09/2025 18:00	8.5	118.67	145.95	0.01	23.90	186.72
25/09/2025 19:00	8.41	103	149.73	0.01	23.46	187.74
25/09/2025 20:00	8.31	103	144.33	0.01	23.29	175.33
25/09/2025 21:00	8.36	123.67	149.24	0.07	23.84	159.71
25/09/2025 22:00	8.78	89.33	140.89	0.01	24.76	195.70
25/09/2025 23:00	8.42	144	158.97	0.05	22.93	193.83
26/09/2025 00:00	8.53	98	165.14	0.01	23.04	180.68
26/09/2025 01:00	8.7	130.33	141.74	0.01	23.56	186.18
26/09/2025 02:00	8.83	109	144.35	0.01	23.93	164.85
26/09/2025 03:00	8.66	104.67	142.86	0.01	23.48	147.77
26/09/2025 04:00	9.46	92.33	148.53	0.01	25.69	200.05
26/09/2025 05:00	9.44	89	144.23	0.01	26.16	203.43
26/09/2025 06:00	8.7	106.33	163.7	0.01	23.86	189.07
26/09/2025 07:00	10.01	85	143.05	0.01	27.94	261.26
26/09/2025 08:00	8.78	94.33	142.42	0.01	24.06	192.03
26/09/2025 09:00	9.32	91.67	130.45	0.09	25.96	191.23
26/09/2025 10:00	10.4	65	141.4	0.01	27.57	229.82
26/09/2025 11:00	8.83	53.33	145.78	0.50	23.46	155.48
26/09/2025 12:00	8.79	81	146.69	0.76	23.43	146.39
26/09/2025 13:00	8.85	103.33	142.2	0.16	23.63	163.70
26/09/2025 14:00	9.08	101	145.04	0.01	24.17	177.29
26/09/2025 15:00	8.72	121.33	140.28	0.01	23.42	156.23
26/09/2025 16:00	8.95	84.26	149.3	0.10	24.05	160.69

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
26/09/2025 17:00	9.31	100	140.55	0.03	24.50	167.48
26/09/2025 18:00	8.96	135.33	147.18	0.04	24.04	226.61
26/09/2025 19:00	9.73	96.07	143.91	0.20	27.37	357.21
26/09/2025 20:00	9.26	104.67	140.07	0.01	25.42	319.04
26/09/2025 21:00	8.17	113.67	143.05	1.17	22.76	205.58
26/09/2025 22:00	8.51	103.33	133.7	2.18	23.03	159.34
26/09/2025 23:00	10.02	77.33	137.79	0.20	26.40	214.08
27/09/2025 00:00	8.38	120.67	143.76	1.00	23.09	146.69
27/09/2025 01:00	9.19	147.67	147.12	0.01	24.71	209.76
27/09/2025 02:00	9.48	116	134.76	0.03	25.72	222.30
27/09/2025 03:00	9.07	87	130.87	0.01	24.55	181.12
27/09/2025 04:00	9.31	105	159.18	0.01	25.03	218.13
27/09/2025 05:00	8.9	101	144.81	0.01	24.14	188.52
27/09/2025 06:00	8.94	77.33	148.68	0.01	24.08	206.18
27/09/2025 07:00	8.53	109.67	144.14	0.01	23.30	180.39
27/09/2025 08:00	8.28	114.33	142.41	0.01	23.25	156.81
27/09/2025 09:00	8.89	104.67	140.15	0.01	24.22	188.66
27/09/2025 10:00	9.02	80	146.68	0.01	24.33	199.32
27/09/2025 11:00	11	105.33	145.52	0.01	31.71	420.34
27/09/2025 12:00	8.92	85	148.32	0.01	24.26	217.67
27/09/2025 13:00	9.55	64.33	142.79	0.01	26.30	321.23
27/09/2025 14:00	8.64	70	149.59	0.01	23.66	196.71
27/09/2025 15:00	8.68	87.67	140.85	0.01	23.44	191.39
27/09/2025 16:00	8.69	81	148.97	0.01	23.54	194.48
27/09/2025 17:00	9.83	75.67	146.64	0.01	26.78	315.20
27/09/2025 18:00	9.19	99.67	148	0.01	24.77	228.32
27/09/2025 19:00	10.58	116.67	149.11	0.01	30.42	416.59
27/09/2025 20:00	8.58	93	146.17	0.01	23.77	185.09
27/09/2025 21:00	8.88	115.67	147.68	0.01	23.63	174.29
27/09/2025 22:00	8.85	103.67	141.75	0.01	23.37	195.17
27/09/2025 23:00	8.86	57.67	148.62	0.01	23.38	192.79
28/09/2025 00:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 01:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 02:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 03:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 04:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 05:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 22:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
28/09/2025 23:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 00:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 01:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 02:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 03:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 04:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 05:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
29/09/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 22:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
29/09/2025 23:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 00:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 01:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 02:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 03:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 04:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 05:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 22:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
30/09/2025 23:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
Minimum	6.09	36.33	120.88	0.00	19.84	82.94
Maximum	12.77	1,383.67	165.35	8.76	41.12	484.38
Avg	8.12	106.17	144.05	0.43	23.21	162.15
SUM						
STD			STD = 171.4, 256	STD = 53.49, 60	STD = 85.73, 129	STD = -, 640

Site Name: GULF_GCG
Stack Name: Boiler
Periodically: 01/10/2025 00:00-31/10/2025 23:59

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
1/10/2025 0:00	9.49	139	150.11	0.01	25.87	182.33
1/10/2025 1:00	8.67	126.67	157.95	0.01	23.52	179.70
1/10/2025 2:00	8.77	110.67	153.62	0.01	23.70	185.83
1/10/2025 3:00	8.34	99.33	153.47	0.01	22.61	174.19
1/10/2025 4:00	8.52	92.67	154.32	0.01	23.03	187.58
1/10/2025 5:00	8.69	136	157.43	0.01	23.49	198.61
1/10/2025 6:00	8.39	104.92	156.66	0.01	22.86	164.80
1/10/2025 7:00	8.54	74.67	159.10	0.01	23.05	157.58
1/10/2025 8:00	10.8	85	161.08	0.01	29.36	420.70
1/10/2025 9:00	10.6	122.33	146.25	0.01	29.31	373.47
1/10/2025 10:00	9.48	91.33	162.66	0.01	25.53	246.89
1/10/2025 11:00	10.67	101.33	153.76	0.01	28.40	280.23
1/10/2025 12:00	11.48	55.67	147.34	0.01	30.11	420.76
1/10/2025 13:00	7.56	91	157.24	0.01	20.97	90.48
1/10/2025 14:00	7.96	117.7	152.76	0.01	21.68	137.89
1/10/2025 15:00	8.26	107.33	151.93	0.01	22.13	142.99
1/10/2025 16:00	8.89	112.13	153.35	0.01	23.44	162.57
1/10/2025 17:00	9.94	89.33	162.32	0.01	25.99	240.57
1/10/2025 18:00	11.14	73.33	155.01	0.01	30.16	361.97
1/10/2025 19:00	10.07	107.67	156.45	0.01	26.53	217.38
1/10/2025 20:00	8.98	137	163.44	0.01	23.74	147.05
1/10/2025 21:00	9.19	72	162.71	0.01	24.75	161.05
1/10/2025 22:00	9.55	87	154.91	0.01	24.96	169.59
1/10/2025 23:00	9.56	66.78	154.91	0.01	25.33	182.46
2/10/2025 0:00	9.67	144	159.53	0.02	25.36	218.52
2/10/2025 1:00	11.49	73	160.62	1.26	30.29	406.61
2/10/2025 2:00	10.57	79.67	152.75	0.02	27.86	335.09
2/10/2025 3:00	10.54	89	161.62	0.02	27.61	272.12
2/10/2025 4:00	9.47	97	155.50	0.01	24.74	184.75
2/10/2025 5:00	10.51	144.92	159.93	0.01	27.58	273.44
2/10/2025 6:00	9.56	127.67	156.96	0.01	25.09	218.88
2/10/2025 7:00	10.33	51.67	156.09	0.02	27.31	256.27
2/10/2025 8:00	10	81.67	155.65	0.02	25.94	175.63
2/10/2025 9:00	7.85	75	161.01	1.61	21.76	105.27
2/10/2025 10:00	7.52	68.67	157.64	0.32	20.72	102.30
2/10/2025 11:00	7.51	90.33	161.63	0.01	20.66	100.31
2/10/2025 12:00	7.87	44.33	162.90	0.01	21.31	118.79
2/10/2025 13:00	7.46	79.67	153.69	0.01	20.46	100.84
2/10/2025 14:00	7.49	73	155.15	0.02	20.53	102.83
2/10/2025 15:00	7.35	90.16	150.93	0.01	20.66	102.60
2/10/2025 16:00	7.15	75.33	152.81	0.01	20.25	100.05
2/10/2025 17:00	7.43	73.33	153.13	0.02	20.67	103.86
2/10/2025 18:00	7.62	92.33	156.33	0.01	20.83	92.11
2/10/2025 19:00	8.03	66.33	162.33	0.01	22.18	100.67
2/10/2025 20:00	8.2	100.33	159.02	0.01	22.07	104.70
2/10/2025 21:00	8.06	113	144.70	0.02	22.62	118.31
2/10/2025 22:00	9.55	103.33	155.19	0.01	25.11	162.40
2/10/2025 23:00	9.22	89.18	152.89	0.01	24.17	131.81
3/10/2025 0:00	9.54	69.67	159.43	0.01	25.41	218.68
3/10/2025 1:00	9.65	91.67	154.87	0.01	25.48	192.20
3/10/2025 2:00	9.88	82.3	156.50	0.01	26.20	229.97
3/10/2025 3:00	8.99	66	159.99	0.01	23.66	144.24
3/10/2025 4:00	8.68	92	153.35	0.01	22.92	121.85
3/10/2025 5:00	8.42	118.67	158.31	0.01	22.48	120.57
3/10/2025 6:00	8.55	80.33	158.02	0.10	22.58	103.83
3/10/2025 7:00	9.93	87.33	159.01	0.01	25.79	168.96
3/10/2025 8:00	8.81	85.67	159.01	0.35	23.54	127.02
3/10/2025 9:00	7.23	84	128.40	3.66	20.66	89.40
3/10/2025 10:00	8.13	62	157.31	0.05	21.75	127.62
3/10/2025 11:00	7.39	61	155.08	0.00	20.46	103.89

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
3/10/2025 12:00	8.82	93.67	163.62	0.01	23.02	144.81
3/10/2025 13:00	8.39	74.67	158.33	0.01	22.19	128.18
3/10/2025 14:00	7.29	62	154.66	0.02	20.21	90.74
3/10/2025 15:00	7.11	97.33	155.40	0.01	19.91	91.74
3/10/2025 16:00	7.55	70	153.92	0.01	20.70	97.97
3/10/2025 17:00	8.06	76.67	155.18	0.01	21.86	110.90
3/10/2025 18:00	7.81	136.67	163.23	0.01	21.37	103.26
3/10/2025 19:00	7.77	74	163.65	0.03	21.33	101.24
3/10/2025 20:00	7.78	110.67	146.59	0.01	21.49	113.57
3/10/2025 21:00	7.77	71.67	143.20	0.01	22.07	122.72
3/10/2025 22:00	7.77	72	156.91	0.01	21.63	116.03
3/10/2025 23:00	7.73	74.33	152.38	0.01	21.28	129.95
4/10/2025 0:00	8.42	94	154.65	0.01	22.49	153.93
4/10/2025 1:00	8.39	93	155.47	0.01	22.82	177.70
4/10/2025 2:00	8.73	98	156.10	0.01	23.00	174.80
4/10/2025 3:00	8.51	77	163.03	0.03	22.54	153.08
4/10/2025 4:00	8.47	99	155.55	0.85	23.02	135.50
4/10/2025 5:00	8.16	101.33	155.29	0.13	21.73	118.27
4/10/2025 6:00	9.19	114.67	159.87	0.16	24.52	177.62
4/10/2025 7:00	8.58	70.67	155.11	0.33	22.68	115.47
4/10/2025 8:00	7.96	68.67	150.08	0.94	21.95	143.29
4/10/2025 9:00	8.81	32.33	158.34	0.16	23.27	129.87
4/10/2025 10:00	8.27	95.33	152.46	0.14	21.99	111.30
4/10/2025 11:00	8.95	73.33	155.29	0.08	23.43	138.18
4/10/2025 12:00	8.3	45.33	144.16	0.01	22.06	148.68
4/10/2025 13:00	8.52	54	145.13	0.01	22.57	152.10
4/10/2025 14:00	8.36	75.33	149.85	0.10	22.16	134.68
4/10/2025 15:00	10.45	78.67	151.88	0.01	27.15	314.19
4/10/2025 16:00	10.35	79	150.65	0.01	27.45	360.04
4/10/2025 17:00	8.32	119.67	148.14	0.01	22.09	170.89
4/10/2025 18:00	8.34	68.67	146.38	0.01	22.22	173.91
4/10/2025 19:00	8.32	65	147.55	0.01	22.08	159.05
4/10/2025 20:00	8.09	93.33	153.42	0.01	21.99	155.20
4/10/2025 21:00	8.18	79.67	151.91	0.02	22.28	143.32
4/10/2025 22:00	7.69	112.67	148.63	0.01	20.83	114.92
4/10/2025 23:00	7.54	108.47	161.51	0.01	20.69	97.48
5/10/2025 0:00	7.57	104.67	157.00	0.02	20.75	104.55
5/10/2025 1:00	7.5	105.33	155.13	0.01	20.61	102.86
5/10/2025 2:00	7.44	78	156.11	0.02	20.51	98.62
5/10/2025 3:00	7.79	95.67	150.14	0.06	21.21	112.99
5/10/2025 4:00	7.64	94.75	157.79	0.07	20.91	106.33
5/10/2025 5:00	7.97	111.33	158.14	0.02	21.45	117.13
5/10/2025 6:00	7.74	76.67	156.44	0.03	21.04	111.41
5/10/2025 7:00	8.17	73	155.26	0.03	21.85	130.47
5/10/2025 8:00	7.46	50.33	159.62	0.35	20.90	101.09
5/10/2025 9:00	8.08	52.33	153.30	0.23	21.71	135.89
5/10/2025 10:00	8.71	57.32	162.45	0.01	23.17	182.43
5/10/2025 11:00	7.94	67	154.61	0.02	21.45	144.80
5/10/2025 12:00	7.92	92.33	157.00	0.01	21.26	142.72
5/10/2025 13:00	7.3	70	148.73	0.33	20.27	145.84
5/10/2025 14:00	7.65	67.33	152.79	0.90	20.78	140.67
5/10/2025 15:00	7.91	65.33	164.06	0.89	21.26	124.97
5/10/2025 16:00	7.77	55.67	155.92	1.19	21.21	159.58
5/10/2025 17:00	8.16	91.33	155.67	1.14	21.89	143.62
5/10/2025 18:00	7.99	67.67	159.42	1.16	21.54	136.43
5/10/2025 19:00	8.48	64	157.92	1.38	22.46	147.91
5/10/2025 20:00	8.79	64.59	156.69	0.68	23.08	172.66
5/10/2025 21:00	9.66	76.33	161.01	0.26	25.66	236.14
5/10/2025 22:00	9.88	70	160.72	0.09	25.74	226.59
5/10/2025 23:00	8.83	98	148.91	0.04	23.37	212.12
6/10/2025 0:00	8.05	57.33	157.48	1.41	21.83	169.37
6/10/2025 1:00	7.76	67.33	153.29	1.64	21.11	144.60
6/10/2025 2:00	8.54	80.33	157.48	0.01	22.47	160.50

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
6/10/2025 3:00	9.93	76.33	149.32	0.00	26.29	377.60
6/10/2025 4:00	9.38	48.33	152.12	0.01	24.61	247.52
6/10/2025 5:00	9.01	94.75	154.19	0.00	23.66	213.30
6/10/2025 6:00	9.64	102	153.45	0.02	25.69	321.66
6/10/2025 7:00	8.73	47.33	155.66	0.32	23.05	161.38
6/10/2025 8:00	7.62	52.67	123.36	1.27	21.11	117.23
6/10/2025 9:00	7.47	41.33	150.25	1.67	20.69	113.36
6/10/2025 10:00	7.21	38.33	150.75	0.21	20.20	98.33
6/10/2025 11:00	7.55	59.67	154.30	0.00	20.72	131.00
6/10/2025 12:00	7.42	50	153.83	0.01	20.37	111.42
6/10/2025 13:00	7.32	51.67	150.24	0.04	20.20	106.59
6/10/2025 14:00	7.5	60.33	152.64	0.01	20.43	107.01
6/10/2025 15:00	7.5	57.38	161.04	0.00	20.61	104.38
6/10/2025 16:00	7.74	54.1	155.35	0.03	20.84	97.67
6/10/2025 17:00	7.73	63.61	157.55	0.36	20.89	118.53
6/10/2025 18:00	8.03	55.33	151.44	0.07	21.50	171.29
6/10/2025 19:00	8.65	59.67	147.65	0.01	22.89	231.59
6/10/2025 20:00	8.03	59.67	137.31	0.47	22.00	250.10
6/10/2025 21:00	8.29	64.33	164.34	0.91	22.39	198.15
6/10/2025 22:00	8.44	63.67	159.23	0.02	22.56	175.93
6/10/2025 23:00	8.49	76.67	158.28	0.35	22.68	158.96
7/10/2025 0:00	9.13	86.56	157.24	0.63	23.81	155.13
7/10/2025 1:00	8.81	58.33	150.36	1.32	23.54	186.06
7/10/2025 2:00	9.22	88.67	155.29	0.71	24.22	215.70
7/10/2025 3:00	8.62	81.33	162.18	0.37	22.93	198.55
7/10/2025 4:00	9.3	67	151.03	0.08	24.55	234.98
7/10/2025 5:00	8.97	76.33	155.64	0.99	23.77	212.25
7/10/2025 6:00	8.16	97.33	161.92	5.33	22.28	165.63
7/10/2025 7:00	8.81	64	155.74	4.84	23.44	169.84
7/10/2025 8:00	8.95	29.33	163.75	2.71	23.50	198.07
7/10/2025 9:00	9.16	42	152.12	4.07	24.77	282.96
7/10/2025 10:00	8.51	55.33	155.71	3.37	22.57	167.92
7/10/2025 11:00	8.35	35.08	162.22	5.85	22.15	146.28
7/10/2025 12:00	8.73	33.67	156.49	3.10	22.79	155.59
7/10/2025 13:00	8.57	61.67	157.97	1.91	22.49	160.12
7/10/2025 14:00	8.63	43.33	159.90	1.22	22.64	188.55
7/10/2025 15:00	8.74	58.33	150.07	0.93	22.95	181.02
7/10/2025 16:00	8.11	34	155.39	2.45	21.91	173.78
7/10/2025 17:00	8.04	57.67	161.36	1.68	21.87	176.88
7/10/2025 18:00	8.42	62.33	163.57	1.02	22.74	201.00
7/10/2025 19:00	8.12	66.67	151.58	3.65	21.90	146.29
7/10/2025 20:00	8.41	57.38	162.53	2.30	23.12	197.01
7/10/2025 21:00	8.24	42	163.50	1.23	22.30	201.72
7/10/2025 22:00	7.97	82.33	152.79	0.17	21.89	223.52
7/10/2025 23:00	8.18	73.33	156.86	0.05	22.44	202.49
8/10/2025 0:00	8.69	75.33	150.36	0.04	23.01	196.92
8/10/2025 1:00	8.43	44.33	155.84	0.74	22.43	181.63
8/10/2025 2:00	8.57	68.67	163.37	0.29	22.72	188.50
8/10/2025 3:00	8.59	56	152.64	0.19	22.79	165.65
8/10/2025 4:00	8.77	69	161.02	0.30	23.31	216.44
8/10/2025 5:00	8.23	77.67	159.63	0.48	21.98	162.79
8/10/2025 6:00	8.46	49.33	157.98	1.66	22.57	218.60
8/10/2025 7:00	8.39	72	150.68	2.86	22.58	181.87
8/10/2025 8:00	7.91	64.67	152.14	2.94	21.66	184.10
8/10/2025 9:00	7.58	69.33	161.50	6.24	21.34	158.42
8/10/2025 10:00	8.08	49.67	152.28	6.14	21.85	155.01
8/10/2025 11:00	7.69	40.67	127.95	5.94	21.28	139.64
8/10/2025 12:00	7.95	39.67	154.39	4.05	21.54	151.81
8/10/2025 13:00	7.82	54	128.55	3.17	21.18	139.54
8/10/2025 14:00	7.53	45.67	123.72	4.87	20.73	146.86
8/10/2025 15:00	7.82	4610.67	157.51	3.06	21.83	156.40
8/10/2025 16:00	8.24	19731.33	155.61	1.29	22.80	159.40
8/10/2025 17:00	8.83	125.67	154.75	0.01	23.65	215.38

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
8/10/2025 18:00	8.49	167	158.40	0.01	22.63	189.58
8/10/2025 19:00	8.01	151.8	154.78	0.07	21.71	157.97
8/10/2025 20:00	7.8	125.67	153.86	1.41	21.78	145.12
8/10/2025 21:00	8.26	59.67	150.08	2.90	22.39	146.81
8/10/2025 22:00	8.05	115	156.34	1.32	22.18	146.54
8/10/2025 23:00	8.31	116	151.07	0.52	22.23	152.90
9/10/2025 0:00	7.91	99	127.43	2.51	21.60	125.20
9/10/2025 1:00	8	106	155.90	1.13	21.91	150.45
9/10/2025 2:00	8.13	109.67	154.70	0.63	21.95	172.92
9/10/2025 3:00	7.77	99	154.16	0.46	21.18	150.68
9/10/2025 4:00	7.81	65.57	153.64	0.14	21.35	146.46
9/10/2025 5:00	7.84	94.67	159.61	0.19	21.45	162.09
9/10/2025 6:00	8.12	130	145.19	0.13	21.94	188.79
9/10/2025 7:00	7.95	145	159.27	0.07	21.40	154.78
9/10/2025 8:00	7.04	107.67	122.78	4.41	20.32	90.36
9/10/2025 9:00	6.54	66.67	120.44	8.04	19.78	83.31
9/10/2025 10:00	6.97	74.67	128.05	8.80	19.85	86.04
9/10/2025 11:00	6.99	95.08	127.93	8.73	19.91	90.12
9/10/2025 12:00	7.06	103	120.40	8.89	20.30	95.10
9/10/2025 13:00	6.93	61.67	124.13	8.12	19.58	86.94
9/10/2025 14:00	6.93	83.33	123.84	8.33	19.83	88.70
9/10/2025 15:00	6.99	131.33	128.14	7.90	20.03	91.35
9/10/2025 16:00	7.54	88.33	127.38	4.61	20.69	114.59
9/10/2025 17:00	7.59	87.33	158.17	3.62	20.74	120.25
9/10/2025 18:00	7.94	101.33	151.77	3.18	21.38	132.26
9/10/2025 19:00	7.92	104.67	158.32	1.81	21.32	133.42
9/10/2025 20:00	8.26	138	155.94	0.03	22.03	159.09
9/10/2025 21:00	7.54	82	158.23	1.74	20.98	136.59
9/10/2025 22:00	7.98	129	155.14	5.09	21.69	131.34
9/10/2025 23:00	8.07	106.78	159.08	4.49	21.67	133.56
10/10/2025 0:00	7.48	94	125.40	5.15	20.55	107.56
10/10/2025 1:00	7.87	102.33	130.99	2.02	21.26	128.54
10/10/2025 2:00	7.82	125.25	153.90	1.81	21.20	131.47
10/10/2025 3:00	7.96	93	156.78	2.47	21.44	126.45
10/10/2025 4:00	7.75	94	153.07	2.92	21.22	133.44
10/10/2025 5:00	7.85	118.33	134.44	1.72	21.41	142.70
10/10/2025 6:00	7.75	105.33	137.11	2.45	21.13	136.43
10/10/2025 7:00	7.73	97.67	159.52	2.35	20.96	116.64
10/10/2025 8:00	7.62	130.67	133.81	2.95	20.77	106.97
10/10/2025 9:00	7.71	108.33	152.86	2.13	21.20	117.75
10/10/2025 10:00	8.28	96.67	154.65	0.53	21.94	119.58
10/10/2025 11:00	7.7	109.33	134.93	0.40	21.08	103.95
10/10/2025 12:00	7.49	111	137.03	0.04	20.66	110.02
10/10/2025 13:00	7.34	105.67	135.96	1.24	20.27	94.36
10/10/2025 14:00	7.17	82.33	139.73	4.02	20.01	84.93
10/10/2025 15:00	7.33	72.13	139.68	4.36	20.32	87.63
10/10/2025 16:00	7.29	54.67	138.47	6.65	20.27	80.89
10/10/2025 17:00	7.51	84	133.05	5.67	20.48	94.25
10/10/2025 18:00	7.72	133	139.01	2.65	20.98	118.91
10/10/2025 19:00	7.96	99.67	156.06	0.81	21.62	126.79
10/10/2025 20:00	7.34	105.67	153.19	0.39	20.63	117.11
10/10/2025 21:00	8.18	113.33	153.81	0.09	21.92	132.12
10/10/2025 22:00	7.75	137	159.95	0.42	21.13	118.02
10/10/2025 23:00	8.07	101.67	153.38	0.30	21.64	134.27
11/10/2025 0:00	7.79	126	135.31	0.06	21.22	160.32
11/10/2025 1:00	7.87	132.67	157.33	0.17	21.28	157.50
11/10/2025 2:00	8.03	142.33	155.37	0.25	21.54	153.69
11/10/2025 3:00	8.32	69.67	157.51	0.48	22.42	220.55
11/10/2025 4:00	7.66	107	158.87	0.44	20.85	134.02
11/10/2025 5:00	7.4	75	158.46	0.96	20.78	118.68
11/10/2025 6:00	7.72	89	134.36	0.79	20.98	135.94
11/10/2025 7:00	8.07	125.33	156.25	0.31	21.71	162.86
11/10/2025 8:00	8.27	74	151.64	0.42	22.35	163.16

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
11/10/2025 9:00	8.27	94.67	157.21	0.66	22.13	145.62
11/10/2025 10:00	7.9	119	155.05	3.60	21.40	95.72
11/10/2025 11:00	7.81	87	134.72	2.94	21.03	127.13
11/10/2025 12:00	7.86	79	138.27	2.92	21.24	152.77
11/10/2025 13:00	7.59	81.33	132.92	4.97	20.97	146.95
11/10/2025 14:00	8.03	126.33	133.04	1.80	21.66	151.04
11/10/2025 15:00	7.73	96.33	138.57	0.87	21.19	136.77
11/10/2025 16:00	7.94	102.67	151.15	0.08	21.97	152.61
11/10/2025 17:00	7.88	84.67	150.83	0.02	21.42	146.67
11/10/2025 18:00	7.93	93.67	154.59	0.02	22.18	166.26
11/10/2025 19:00	7.92	78	154.39	0.01	21.52	132.42
11/10/2025 20:00	7.37	101	159.39	0.19	20.85	112.45
11/10/2025 21:00	7.69	91	137.36	0.34	21.16	114.25
11/10/2025 22:00	7.58	86	132.35	1.02	20.85	110.24
11/10/2025 23:00	7.65	104.92	135.58	1.21	21.09	115.33
12/10/2025 0:00	7.77	101	130.28	1.38	21.66	117.46
12/10/2025 1:00	7.95	113.33	134.40	0.21	21.72	127.65
12/10/2025 2:00	8.54	95.33	155.09	0.78	22.93	162.45
12/10/2025 3:00	7.96	100.66	132.77	2.37	21.60	140.84
12/10/2025 4:00	8.06	89.67	153.05	3.68	22.08	137.58
12/10/2025 5:00	7.59	100.67	158.18	4.90	20.74	129.20
12/10/2025 6:00	7.76	129	157.16	4.40	21.56	134.79
12/10/2025 7:00	8.11	114	155.59	4.14	21.87	139.49
12/10/2025 8:00	7.78	112.13	137.23	3.26	21.39	129.97
12/10/2025 9:00	7.63	120	138.03	5.97	21.27	134.78
12/10/2025 10:00	7.74	108.33	150.92	3.65	21.15	142.74
12/10/2025 11:00	7.65	118.33	152.57	4.93	21.27	141.63
12/10/2025 12:00	7.64	130	150.09	5.40	20.92	140.29
12/10/2025 13:00	7.8	81	135.05	4.13	21.28	138.71
12/10/2025 14:00	7.69	175.33	131.32	3.45	21.26	131.89
12/10/2025 15:00	7.53	122	130.87	4.04	20.88	121.46
12/10/2025 16:00	8.04	111	130.88	4.16	22.11	140.66
12/10/2025 17:00	7.69	110	139.97	8.41	21.01	124.11
12/10/2025 18:00	7.53	106.33	133.35	9.51	20.83	117.24
12/10/2025 19:00	7.38	79	135.28	9.16	20.58	107.50
12/10/2025 20:00	6.96	102.33	131.17	8.93	21.09	106.52
12/10/2025 21:00	7.35	123.33	132.30	8.15	20.88	115.18
12/10/2025 22:00	7.4	93.67	132.98	8.60	20.61	119.73
12/10/2025 23:00	7.41	102.67	131.44	6.36	20.81	112.04
13/10/2025 00:00	7.82	85	133.99	5.69	21.36	121.00
13/10/2025 01:00	7.45	141	129.84	7.99	20.60	123.61
13/10/2025 02:00	7.4	116.67	134.86	7.59	20.56	115.63
13/10/2025 03:00	7.59	145.67	132.87	5.50	21.28	118.49
13/10/2025 04:00	7.55	124.67	135.38	6.64	20.84	124.24
13/10/2025 05:00	7.83	98.33	130.38	5.75	21.44	128.79
13/10/2025 06:00	7.61	100	135.14	7.28	20.89	126.89
13/10/2025 07:00	7.73	95.33	134.40	6.55	21.06	127.34
13/10/2025 08:00	7.72	85.67	138.41	8.21	21.53	131.36
13/10/2025 09:00	8.08	80	130.94	8.67	21.67	127.31
13/10/2025 10:00	7.82	86.67	130.39	7.86	21.15	122.89
13/10/2025 11:00	7.99	71.33	135.76	7.20	21.31	126.26
13/10/2025 12:00	7.92	80.67	152.92	6.73	21.20	140.86
13/10/2025 13:00	8.03	117	155.13	5.83	21.36	156.38
13/10/2025 14:00	8.14	116.67	155.75	5.45	21.58	140.81
13/10/2025 15:00	7.9	98.67	155.83	7.60	21.28	138.09
13/10/2025 16:00	7.91	155.67	136.84	5.78	21.42	133.58
13/10/2025 17:00	7.79	149.33	131.91	4.75	21.17	131.28
13/10/2025 18:00	7.91	136.67	137.70	3.85	21.24	121.86
13/10/2025 19:00	7.73	151.15	130.97	5.38	21.61	114.63
13/10/2025 20:00	7.52	183.67	154.96	5.91	21.14	147.80
13/10/2025 21:00	8.86	87.21	162.59	1.60	23.40	256.51
13/10/2025 22:00	8.21	118.67	155.29	3.38	21.94	176.56
13/10/2025 23:00	7.62	114.67	159.13	4.69	21.11	130.26

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
14/10/2025 00:00	8.16	72.67	150.77	3.23	21.95	145.57
14/10/2025 01:00	8.15	122.33	157.31	2.58	21.84	163.62
14/10/2025 02:00	8.75	131.33	160.38	1.21	23.11	239.01
14/10/2025 03:00	8.18	129.33	154.67	3.63	21.96	145.74
14/10/2025 04:00	8.44	118.67	151.94	2.63	22.31	170.19
14/10/2025 05:00	8.22	116.33	159.37	4.73	21.78	162.49
14/10/2025 06:00	8.23	141.33	151.64	3.27	21.88	165.62
14/10/2025 07:00	7.81	87.33	130.65	4.12	21.07	119.80
14/10/2025 08:00	7.85	84.67	155.21	6.03	21.41	127.64
14/10/2025 09:00	9.59	103.33	156.28	9.49	30.77	193.59
14/10/2025 10:00	8.23	109.31	129.95	9.02	22.59	109.07
14/10/2025 11:00	7.61	80	130.39	8.29	20.74	104.56
14/10/2025 12:00	7.25	102.67	127.82	8.51	20.21	97.19
14/10/2025 13:00	7.41	102	133.03	9.50	20.38	102.60
14/10/2025 14:00	7.18	121.67	132.32	8.41	20.14	101.72
14/10/2025 15:00	7.26	92	133.13	8.76	20.05	109.80
14/10/2025 16:00	7.39	92.33	133.94	7.82	20.32	119.15
14/10/2025 17:00	7.67	122.67	134.18	6.20	20.84	125.54
14/10/2025 18:00	8	101	154.92	5.80	21.71	144.12
14/10/2025 19:00	7.88	118.67	156.23	6.58	21.21	147.53
14/10/2025 20:00	7.14	67	156.29	8.71	20.16	119.48
14/10/2025 21:00	7.11	81.33	152.88	8.74	20.17	119.77
14/10/2025 22:00	7.81	125.67	155.69	7.39	21.16	142.97
14/10/2025 23:00	7.2	134.75	139.91	9.58	20.43	119.28
15/10/2025 00:00	7.69	120.67	152.23	7.73	21.04	134.04
15/10/2025 01:00	7.72	105	159.14	7.83	20.97	130.47
15/10/2025 02:00	7.77	146.33	150.05	8.03	21.16	132.54
15/10/2025 03:00	7.71	149	152.08	8.77	21.85	131.57
15/10/2025 04:00	7.77	144.67	151.67	8.13	21.23	154.98
15/10/2025 05:00	7.58	118.33	154.29	9.12	20.84	151.58
15/10/2025 06:00	7.35	112.67	151.35	8.02	20.58	141.68
15/10/2025 07:00	7.98	104.26	157.74	8.64	21.84	160.00
15/10/2025 08:00	7.28	71.33	155.40	8.53	20.65	143.55
15/10/2025 09:00	7.97	92.13	138.03	8.20	21.49	146.68
15/10/2025 10:00	7.71	81.31	151.40	9.39	21.00	139.75
15/10/2025 11:00	11.37	103.33	145.63	3.12	30.75	319.80
15/10/2025 12:00	9.05	77	105.39	0.01	30.96	406.06
15/10/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/10/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/10/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/10/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/10/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
15/10/2025 18:00	6.94	123.33	153.67	1.26	20.07	109.83
15/10/2025 19:00	6.73	108.33	150.62	0.74	20.25	107.81
15/10/2025 20:00	6.4	90.16	130.46	2.46	19.48	100.79
15/10/2025 21:00	7.29	86.33	137.32	4.35	20.54	111.73
15/10/2025 22:00	6.93	125.33	134.30	4.80	19.88	109.21
15/10/2025 23:00	7.17	115.67	137.24	5.17	20.79	112.61
16/10/2025 00:00	7.14	118.67	137.58	6.64	20.21	118.67
16/10/2025 01:00	7.35	132.67	135.41	5.83	20.70	121.16
16/10/2025 02:00	7.25	128	133.63	5.71	20.44	124.55
16/10/2025 03:00	7.07	107.67	132.49	8.20	20.13	110.35
16/10/2025 04:00	7.3	100.67	133.10	8.68	20.64	125.00
16/10/2025 05:00	7.2	154.33	137.71	8.56	20.32	123.77
16/10/2025 06:00	7.34	66.67	133.43	8.14	20.75	132.72
16/10/2025 07:00	7.34	159	136.40	8.53	20.55	129.71
16/10/2025 08:00	7.29	99.67	130.75	8.28	20.49	119.76
16/10/2025 09:00	6.83	115	139.83	8.19	20.27	106.85
16/10/2025 10:00	7.28	68.67	135.23	8.77	20.49	109.08
16/10/2025 11:00	7.17	83	138.39	8.27	20.38	113.80
16/10/2025 12:00	7.07	71.67	130.32	8.80	20.05	110.52
16/10/2025 13:00	7.36	97.33	138.02	8.13	20.67	125.73
16/10/2025 14:00	6.8	140	133.89	8.06	19.87	106.78

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
16/10/2025 15:00	6.56	122.67	130.84	9.12	19.56	106.32
16/10/2025 16:00	6.98	80.33	130.36	8.25	20.23	121.71
16/10/2025 17:00	6.9	101.67	130.19	8.05	19.85	97.81
16/10/2025 18:00	7.53	122.33	150.63	6.81	20.94	112.05
16/10/2025 19:00	7.28	139	145.81	6.17	20.58	120.75
16/10/2025 20:00	7.48	128	146.16	5.69	21.06	128.66
16/10/2025 21:00	7.5	113	147.49	5.33	22.24	127.95
16/10/2025 22:00	7.56	178.67	136.02	4.85	20.94	125.95
16/10/2025 23:00	7.48	134.75	135.83	5.16	20.75	129.77
17/10/2025 00:00	7.31	133.33	134.36	3.95	20.57	143.57
17/10/2025 01:00	7.29	117.33	135.12	3.69	20.48	145.22
17/10/2025 02:00	7.54	59.67	146.52	3.49	20.93	159.02
17/10/2025 03:00	7.58	114.67	133.74	3.68	20.85	144.50
17/10/2025 04:00	7.6	106.67	141.89	3.42	20.98	148.98
17/10/2025 05:00	7.68	104.33	135.22	3.23	21.02	141.55
17/10/2025 06:00	7.33	135.67	134.13	3.91	20.41	129.77
17/10/2025 07:00	7.2	105.67	134.48	6.73	20.14	123.90
17/10/2025 08:00	7.34	113.33	135.67	9.39	20.34	125.98
17/10/2025 09:00	6.7	113.67	133.61	8.91	20.39	111.60
17/10/2025 10:00	7.04	59	133.17	8.91	19.95	107.21
17/10/2025 11:00	7.08	69.33	132.00	8.73	20.01	107.35
17/10/2025 12:00	6.9	76	139.44	8.88	19.73	108.00
17/10/2025 13:00	7.33	121.67	136.91	8.94	20.28	120.12
17/10/2025 14:00	7.36	64	138.05	8.26	20.61	115.02
17/10/2025 15:00	7.07	84.67	134.31	8.14	20.14	112.78
17/10/2025 16:00	6.77	74	133.71	6.50	19.46	108.89
17/10/2025 17:00	7.05	112.67	136.90	5.36	20.02	118.55
17/10/2025 18:00	6.94	74	150.26	3.47	19.83	114.84
17/10/2025 19:00	7.02	105	155.51	0.96	20.13	121.85
17/10/2025 20:00	6.76	95.33	150.46	0.53	20.15	119.69
17/10/2025 21:00	6.56	95	152.55	1.65	19.75	105.48
17/10/2025 22:00	6.88	113	159.04	1.82	19.94	108.48
17/10/2025 23:00	6.89	80.67	157.59	1.62	19.87	111.49
18/10/2025 00:00	7.03	80.67	145.06	3.26	19.90	112.08
18/10/2025 01:00	7.31	114	148.07	2.88	20.39	132.93
18/10/2025 02:00	7.35	109	152.56	0.85	20.71	134.91
18/10/2025 03:00	7.38	88.67	157.36	0.30	20.72	142.85
18/10/2025 04:00	7.34	164.59	151.32	0.52	20.58	132.51
18/10/2025 05:00	7.38	112.33	151.24	0.45	20.72	135.02
18/10/2025 06:00	7.26	101.31	155.60	0.03	20.65	129.47
18/10/2025 07:00	7.27	170.33	156.76	0.04	20.63	122.99
18/10/2025 08:00	7.26	94.33	131.21	1.68	20.34	124.68
18/10/2025 09:00	7.16	77	132.26	3.37	20.45	123.41
18/10/2025 10:00	7.73	83.67	143.70	4.05	21.15	141.70
18/10/2025 11:00	7.6	137.67	157.55	2.16	20.86	151.09
18/10/2025 12:00	7.29	51.33	145.91	3.12	20.21	134.42
18/10/2025 13:00	7.64	84.33	147.20	4.89	20.80	146.07
18/10/2025 14:00	7.41	122	148.13	4.74	20.50	143.76
18/10/2025 15:00	7.32	94.33	131.63	6.72	20.43	143.90
18/10/2025 16:00	6.92	102.33	135.88	8.34	19.87	142.23
18/10/2025 17:00	7.04	99.67	150.55	5.90	19.99	136.07
18/10/2025 18:00	11.54	115.33	134.80	0.73	30.62	350.54
18/10/2025 19:00	8.25	110.67	148.54	0.48	22.24	222.54
18/10/2025 20:00	7.65	100.67	148.81	1.96	21.23	180.55
18/10/2025 21:00	8.07	100.33	144.67	2.93	21.94	183.76
18/10/2025 22:00	7.68	88	161.57	4.69	21.24	191.19
18/10/2025 23:00	8.21	97.63	144.37	4.01	22.29	194.33
19/10/2025 00:00	7.95	171.67	145.16	2.08	21.69	168.43
19/10/2025 01:00	7.91	150	141.35	0.94	21.47	165.04
19/10/2025 02:00	7.75	80	135.94	1.38	21.14	154.92
19/10/2025 03:00	7.64	124.67	136.70	2.41	20.89	139.97
19/10/2025 04:00	7.67	137	136.55	3.43	20.98	140.91
19/10/2025 05:00	7.45	112	138.67	4.38	20.57	135.49

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
19/10/2025 06:00	7.48	126.89	133.84	6.01	20.56	131.71
19/10/2025 07:00	7.65	72.67	134.13	5.70	20.92	143.91
19/10/2025 08:00	7.44	72	134.67	7.73	20.75	147.95
19/10/2025 09:00	7.78	75	131.56	7.97	21.24	157.24
19/10/2025 10:00	7.86	83	139.74	5.61	21.26	165.67
19/10/2025 11:00	8.2	59	136.20	6.00	22.13	178.85
19/10/2025 12:00	8.69	90	143.59	3.21	23.23	214.68
19/10/2025 13:00	8.1	111	130.77	4.44	21.74	189.12
19/10/2025 14:00	7.78	70.67	135.70	6.79	21.16	150.21
19/10/2025 15:00	7.73	92.33	139.40	5.64	21.10	155.50
19/10/2025 16:00	7.84	70	133.31	3.81	21.23	158.28
19/10/2025 17:00	7.69	64.67	132.23	4.56	20.97	144.99
19/10/2025 18:00	7.97	124.33	133.25	4.27	21.50	156.17
19/10/2025 19:00	7.81	118	133.92	4.92	21.28	168.37
19/10/2025 20:00	6.66	122.67	139.79	6.18	19.75	109.73
19/10/2025 21:00	7.41	102.67	139.34	7.12	20.72	130.20
19/10/2025 22:00	7.61	133.33	137.94	8.20	20.98	139.44
19/10/2025 23:00	7.52	93.22	130.33	5.93	20.78	123.00
20/10/2025 00:00	7.68	149.67	139.90	4.78	21.10	132.34
20/10/2025 01:00	7.43	110.33	130.03	7.76	20.58	111.61
20/10/2025 02:00	7.68	142.67	135.87	6.02	20.98	129.66
20/10/2025 03:00	7.78	135	138.20	6.02	21.27	138.72
20/10/2025 04:00	7.63	112.33	162.34	6.08	20.92	151.34
20/10/2025 05:00	7.6	163.33	158.58	5.48	20.92	147.43
20/10/2025 06:00	8.05	118.33	155.16	2.69	21.74	168.29
20/10/2025 07:00	7.91	101.31	140.32	2.82	21.75	147.50
20/10/2025 08:00	7.82	150.67	147.30	3.45	21.79	148.84
20/10/2025 09:00	7.56	82.67	134.37	6.85	20.84	129.39
20/10/2025 10:00	7.36	67.33	133.36	8.44	20.44	113.94
20/10/2025 11:00	7.35	108	130.75	8.37	20.60	113.52
20/10/2025 12:00	7.39	113	148.17	4.73	20.71	114.43
20/10/2025 13:00	7.7	145.67	145.19	2.22	21.19	145.12
20/10/2025 14:00	7.36	105	145.64	2.49	20.56	129.27
20/10/2025 15:00	7.38	97	132.50	3.04	20.49	125.14
20/10/2025 16:00	7.39	95	131.76	5.69	20.44	118.46
20/10/2025 17:00	7.44	85.67	145.37	5.29	20.52	127.70
20/10/2025 18:00	7.86	84.67	147.92	2.35	21.44	138.23
20/10/2025 19:00	7.64	111.33	146.26	3.00	21.00	127.96
20/10/2025 20:00	7.66	102	147.31	3.84	21.09	134.23
20/10/2025 21:00	7.57	92.33	145.28	5.80	21.18	146.15
20/10/2025 22:00	7.89	96.33	142.67	5.49	21.40	137.56
20/10/2025 23:00	7.77	49.64	141.09	4.21	21.16	127.31
21/10/2025 00:00	7.51	90	146.66	5.23	20.85	122.84
21/10/2025 01:00	7.2	62.67	147.01	4.23	20.27	105.01
21/10/2025 02:00	7.17	97.67	151.00	1.92	20.25	109.48
21/10/2025 03:00	7.51	64.33	131.61	3.14	20.79	117.06
21/10/2025 04:00	7.41	70.67	134.95	4.24	20.63	113.15
21/10/2025 05:00	7.34	96.07	148.77	2.57	20.51	116.57
21/10/2025 06:00	7.98	122.33	142.96	1.55	21.75	141.04
21/10/2025 07:00	7.54	81.67	140.82	1.55	20.97	128.75
21/10/2025 08:00	7.09	98.67	138.37	1.80	20.30	131.01
21/10/2025 09:00	7.79	83.67	147.01	2.14	21.58	154.61
21/10/2025 10:00	7.79	121	137.04	2.91	21.19	137.50
21/10/2025 11:00	7.99	91.33	146.52	2.38	21.62	151.72
21/10/2025 12:00	8.14	138.33	141.33	0.83	22.07	159.10
21/10/2025 13:00	7.65	96.72	157.37	0.37	21.12	145.36
21/10/2025 14:00	7.7	98.33	154.41	0.59	21.30	149.45
21/10/2025 15:00	7.74	74	141.88	1.16	21.14	147.12
21/10/2025 16:00	7.66	77.33	135.14	2.29	20.95	134.45
21/10/2025 17:00	7.86	98.67	137.21	3.03	21.32	141.60
21/10/2025 18:00	8.32	102.67	143.85	2.34	22.64	171.28
21/10/2025 19:00	7.58	136.67	139.57	4.44	21.11	125.60
21/10/2025 20:00	7.65	142	140.93	7.41	21.26	138.05

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
21/10/2025 21:00	7.68	120	148.81	5.71	21.12	140.28
21/10/2025 22:00	7.94	98.36	149.22	4.65	21.46	147.28
21/10/2025 23:00	7.77	100.67	149.81	4.58	21.16	134.77
22/10/2025 00:00	7.75	123.67	147.06	3.07	21.25	147.17
22/10/2025 01:00	7.75	97.67	149.62	2.86	21.25	150.76
22/10/2025 02:00	7.58	121.33	141.34	3.44	21.00	127.26
22/10/2025 03:00	7.55	105	132.31	2.63	21.35	131.23
22/10/2025 04:00	7.33	82	147.13	1.21	20.78	123.71
22/10/2025 05:00	7.19	84	152.79	0.56	20.65	117.17
22/10/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
22/10/2025 18:00	8.35	109.33	128.17	0.01	24.35	190.99
22/10/2025 19:00	8.74	107.67	133.57	0.01	24.63	309.30
22/10/2025 20:00	8.19	73.33	131.79	0.01	22.81	130.66
22/10/2025 21:00	8.1	102	153.98	0.27	22.52	142.83
22/10/2025 22:00	7.37	120.67	154.02	0.02	20.81	122.37
22/10/2025 23:00	7.21	99.67	149.50	0.11	20.52	123.18
23/10/2025 00:00	7.7	141	163.74	0.14	21.32	133.51
23/10/2025 01:00	7.79	110	143.04	0.84	21.28	142.14
23/10/2025 02:00	8.04	130.33	136.22	0.94	21.87	153.52
23/10/2025 03:00	7.42	99	136.55	1.08	20.74	126.26
23/10/2025 04:00	7.27	137.67	136.59	0.65	20.60	120.45
23/10/2025 05:00	7.46	115	139.30	1.52	20.68	121.79
23/10/2025 06:00	7.25	94	130.56	1.12	20.44	118.85
23/10/2025 07:00	7.44	114.67	133.54	0.52	21.57	128.98
23/10/2025 08:00	7.1	114.67	138.98	1.14	20.78	120.69
23/10/2025 09:00	7.41	83.67	149.34	1.55	20.86	127.71
23/10/2025 10:00	7.32	81.33	147.74	0.39	20.74	134.71
23/10/2025 11:00	7.25	84	153.66	0.02	20.76	125.02
23/10/2025 12:00	7.18	119.33	154.16	0.03	20.56	124.93
23/10/2025 13:00	7.15	104.67	154.16	0.02	20.52	129.56
23/10/2025 14:00	7.16	128.33	150.36	0.03	20.55	123.71
23/10/2025 15:00	7.09	90.67	151.05	0.03	20.43	128.59
23/10/2025 16:00	7.19	72.33	158.57	0.01	20.68	126.32
23/10/2025 17:00	6.98	125	153.62	0.30	20.37	109.12
23/10/2025 18:00	7.21	156.67	146.37	0.79	20.37	115.21
23/10/2025 19:00	7.65	99	154.69	0.21	21.11	139.38
23/10/2025 20:00	6.88	106.23	153.68	0.63	20.20	108.04
23/10/2025 21:00	7.34	82.33	151.29	0.30	20.92	137.59
23/10/2025 22:00	7.2	96	152.77	0.03	20.46	124.55
23/10/2025 23:00	7.11	104	155.85	0.17	20.24	112.42
24/10/2025 00:00	7.28	112	145.30	0.09	20.62	130.02
24/10/2025 01:00	7.56	98	140.56	0.31	21.02	145.55
24/10/2025 02:00	7.56	147	152.90	0.29	21.12	153.41
24/10/2025 03:00	7.44	89	153.53	0.07	21.27	145.47
24/10/2025 04:00	7.44	127.67	144.93	0.01	21.39	155.53
24/10/2025 05:00	7.38	108.33	143.18	0.01	21.69	181.32
24/10/2025 06:00	7.45	162.67	153.25	0.01	21.73	146.82
24/10/2025 07:00	7.59	116.33	160.67	0.01	21.49	149.47
24/10/2025 08:00	7.28	97.33	153.75	0.01	21.20	140.21
24/10/2025 09:00	7.53	71.33	140.09	0.02	21.20	142.67
24/10/2025 10:00	7.27	84.67	138.59	0.08	20.62	132.72
24/10/2025 11:00	7.48	70.33	131.18	0.18	20.83	134.81
24/10/2025 12:00	7.57	58	148.53	0.03	21.02	143.22

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
24/10/2025 13:00	7.16	95	146.60	0.26	20.31	131.52
24/10/2025 14:00	7.39	108	131.19	0.49	20.78	129.15
24/10/2025 15:00	7.24	91.67	130.00	0.89	20.33	128.48
24/10/2025 16:00	7.55	131.67	136.33	1.67	21.07	128.94
24/10/2025 17:00	7.4	157	138.62	1.93	20.73	130.34
24/10/2025 18:00	8.39	120.33	141.62	1.27	22.77	154.20
24/10/2025 19:00	8.04	94.67	147.31	0.03	22.21	149.22
24/10/2025 20:00	6.89	132.46	135.41	0.17	20.51	123.14
24/10/2025 21:00	7.07	129.67	138.82	0.17	20.47	120.00
24/10/2025 22:00	7.46	138.67	149.57	0.01	21.03	124.38
24/10/2025 23:00	7.52	140	152.82	0.02	21.04	131.94
25/10/2025 00:00	7.47	95.33	158.87	0.05	20.76	118.17
25/10/2025 01:00	7.53	106	155.70	0.09	20.89	128.42
25/10/2025 02:00	7.31	146	145.13	0.54	20.47	124.80
25/10/2025 03:00	7.92	113.67	162.42	0.18	21.58	157.52
25/10/2025 04:00	7.86	162	158.02	0.12	21.52	156.98
25/10/2025 05:00	7.24	71.67	150.18	0.12	20.52	139.51
25/10/2025 06:00	7.42	111	155.55	0.08	20.76	125.55
25/10/2025 07:00	7.26	87	157.25	0.01	20.57	124.85
25/10/2025 08:00	6.94	101.67	152.27	0.05	20.19	124.86
25/10/2025 09:00	6.68	105.67	148.89	0.10	20.35	122.02
25/10/2025 10:00	7.2	85.33	156.57	0.01	20.60	138.24
25/10/2025 11:00	7.24	93.33	157.38	0.02	20.73	145.75
25/10/2025 12:00	7.29	104	144.52	0.03	20.67	177.74
25/10/2025 13:00	7.76	81	146.58	0.06	21.58	198.78
25/10/2025 14:00	7.39	86	156.55	0.04	21.11	156.07
25/10/2025 15:00	7.05	131.33	148.65	0.17	20.46	139.62
25/10/2025 16:00	7.18	102	138.68	0.02	20.83	140.94
25/10/2025 17:00	7.27	144	130.32	0.02	20.89	163.58
25/10/2025 18:00	7.17	94.33	159.21	0.01	20.87	144.35
25/10/2025 19:00	6.74	133.11	140.26	0.01	20.64	141.39
25/10/2025 20:00	6.62	80.67	154.96	0.28	19.79	102.03
25/10/2025 21:00	7.11	98	151.15	0.56	20.42	116.52
25/10/2025 22:00	6.74	61.67	138.93	1.73	19.72	105.65
25/10/2025 23:00	6.82	125.08	133.69	1.38	19.96	117.40
26/10/2025 00:00	7.24	103.33	138.70	0.63	20.70	132.61
26/10/2025 01:00	6.63	112.33	131.49	0.47	19.85	119.36
26/10/2025 02:00	6.99	113	158.99	0.24	20.34	129.06
26/10/2025 03:00	7.43	94.67	145.35	0.03	21.46	135.44
26/10/2025 04:00	7.23	88.67	135.57	0.16	20.80	131.36
26/10/2025 05:00	6.86	131.33	135.91	0.15	20.02	110.14
26/10/2025 06:00	7.48	111.33	148.68	0.14	21.02	142.00
26/10/2025 07:00	7.35	99.67	139.93	0.28	20.74	127.97
26/10/2025 08:00	7.87	112.33	160.85	0.21	21.63	157.56
26/10/2025 09:00	7.09	126	154.57	1.21	20.64	130.68
26/10/2025 10:00	7.89	53	157.42	0.60	21.62	157.67
26/10/2025 11:00	8.22	88	151.77	0.08	22.25	186.12
26/10/2025 12:00	7.67	75	134.84	0.03	21.38	168.46
26/10/2025 13:00	7.59	43.67	134.04	0.04	21.37	168.68
26/10/2025 14:00	7.35	91.33	137.66	0.01	20.86	161.36
26/10/2025 15:00	7.16	72.33	124.46	0.01	20.92	205.16
26/10/2025 16:00	7.01	71	146.35	0.33	20.27	140.47
26/10/2025 17:00	7.14	150	149.01	0.20	20.53	154.72
26/10/2025 18:00	7.54	134	160.08	0.06	21.68	152.22
26/10/2025 19:00	7.38	120	155.16	0.06	21.17	133.49
26/10/2025 20:00	6.68	132	149.85	0.29	20.25	116.01
26/10/2025 21:00	7.8	97	158.50	0.06	21.56	134.67
26/10/2025 22:00	7.95	104.67	157.61	0.06	21.78	147.67
26/10/2025 23:00	7.93	73.67	145.83	0.06	21.82	148.87
27/10/2025 00:00	7.38	98.33	149.44	0.29	20.94	142.03
27/10/2025 01:00	6.92	111.67	156.63	0.24	20.07	114.33
27/10/2025 02:00	7.49	102.3	154.18	0.21	20.96	139.53
27/10/2025 03:00	7.45	110.67	151.93	0.08	21.42	143.42

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
27/10/2025 04:00	7.36	67	159.05	0.04	21.03	130.76
27/10/2025 05:00	7.57	116.33	153.89	0.03	21.07	136.69
27/10/2025 06:00	7.42	141.33	154.39	0.26	20.92	129.10
27/10/2025 07:00	7.72	77.33	145.52	0.12	21.36	152.80
27/10/2025 08:00	7.18	120.67	152.73	0.29	20.64	133.35
27/10/2025 09:00	7.65	110.67	162.51	0.42	21.31	154.14
27/10/2025 10:00	7.24	133	154.12	0.87	20.63	134.05
27/10/2025 11:00	7.46	77.67	148.42	0.62	22.26	139.80
27/10/2025 12:00	7.88	100.67	162.15	0.53	21.89	187.38
27/10/2025 13:00	7.58	111.33	144.96	0.73	21.20	150.12
27/10/2025 14:00	7.94	100.67	145.88	0.40	21.69	166.02
27/10/2025 15:00	7.45	88.67	146.72	1.34	20.74	124.66
27/10/2025 16:00	7.42	109.33	160.97	1.08	20.68	135.94
27/10/2025 17:00	7.64	86.33	145.24	0.46	21.26	144.25
27/10/2025 18:00	7.33	84	132.08	1.50	20.62	121.52
27/10/2025 19:00	8.15	121	145.75	0.40	22.15	168.36
27/10/2025 20:00	7.54	103.67	154.92	1.10	21.01	151.45
27/10/2025 21:00	7.17	124.26	147.21	2.22	20.88	146.51
27/10/2025 22:00	7.4	138.33	156.44	2.11	20.82	133.18
27/10/2025 23:00	6.98	69.67	159.51	4.58	20.69	105.30
28/10/2025 00:00	7.8	102.33	152.09	1.78	22.12	151.90
28/10/2025 01:00	7.72	116.67	163.18	0.82	21.17	135.90
28/10/2025 02:00	7.8	149.51	154.62	0.43	21.34	143.56
28/10/2025 03:00	7.78	96.33	156.76	0.66	21.46	145.26
28/10/2025 04:00	7.77	113.67	158.43	0.88	21.34	146.43
28/10/2025 05:00	7.95	100	153.62	0.43	21.75	149.62
28/10/2025 06:00	7.91	77.33	157.31	0.90	21.58	142.88
28/10/2025 07:00	7.69	116.33	159.87	1.47	21.15	133.90
28/10/2025 08:00	7.65	107	158.66	1.59	21.65	137.81
28/10/2025 09:00	8.09	104	140.48	1.74	21.98	133.93
28/10/2025 10:00	7.42	81.33	144.99	2.03	20.75	113.65
28/10/2025 11:00	7.39	97.33	158.40	1.65	21.10	123.05
28/10/2025 12:00	7.28	103	156.12	1.88	20.33	125.71
28/10/2025 13:00	7.19	72	157.90	1.92	20.23	126.59
28/10/2025 14:00	7.42	101.33	159.68	0.90	20.63	134.23
28/10/2025 15:00	7.53	111.67	161.61	0.85	21.03	138.19
28/10/2025 16:00	7.81	114.33	149.05	1.64	21.52	143.48
28/10/2025 17:00	7.61	143.93	148.11	1.87	20.90	134.10
28/10/2025 18:00	7.36	142.67	132.77	2.74	20.53	114.72
28/10/2025 19:00	7.21	125.33	144.60	2.42	20.34	117.55
28/10/2025 20:00	7.38	107.21	147.88	3.18	20.58	122.43
28/10/2025 21:00	7.32	122	151.70	4.64	20.95	122.54
28/10/2025 22:00	7.12	121.33	157.62	3.61	20.21	116.65
28/10/2025 23:00	7.34	98.67	154.82	2.04	20.57	122.98
29/10/2025 00:00	7.77	91	160.16	2.59	21.95	166.07
29/10/2025 01:00	8.26	97.67	149.98	2.41	22.58	144.83
29/10/2025 02:00	8.13	120.67	162.99	1.40	22.68	138.89
29/10/2025 03:00	7.25	145	147.50	2.80	20.41	110.54
29/10/2025 04:00	10.57	109	152.83	0.44	28.23	299.82
29/10/2025 05:00	11.33	119	153.66	0.02	30.24	314.57
29/10/2025 06:00	11.07	194	161.31	0.02	29.67	273.78
29/10/2025 07:00	11.19	115.33	154.78	0.02	29.78	326.57
29/10/2025 08:00	10.64	104.33	141.20	0.02	28.80	342.13
29/10/2025 09:00	6.75	90.33	146.23	5.03	20.16	132.53
29/10/2025 10:00	7.37	107.67	140.54	1.50	20.87	155.39
29/10/2025 11:00	7.33	113.67	135.36	0.27	20.64	147.58
29/10/2025 12:00	7.65	90.67	143.05	0.14	21.15	157.39
29/10/2025 13:00	7.66	105.67	146.17	0.62	21.46	182.34
29/10/2025 14:00	7.78	107	157.58	1.58	21.28	159.98
29/10/2025 15:00	7.67	109.33	156.76	0.66	21.07	156.44
29/10/2025 16:00	7.97	128.33	162.47	1.43	21.69	175.58
29/10/2025 17:00	7.27	106	151.67	2.32	20.46	138.62
29/10/2025 18:00	7.68	106.89	147.86	1.64	21.02	137.39
29/10/2025 19:00	7.33	134.43	150.78	0.89	20.71	124.54

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
29/10/2025 20:00	7.4	130	158.67	1.12	20.98	120.87
29/10/2025 21:00	7.52	128.67	146.80	3.32	20.69	112.10
29/10/2025 22:00	11.22	114.33	154.14	0.09	29.99	301.45
29/10/2025 23:00	11.34	168.33	146.29	0.01	30.43	318.49
30/10/2025 00:00	11.56	92.67	139.32	0.01	30.28	369.28
30/10/2025 01:00	12.31	127.67	110.74	0.01	30.21	418.81
30/10/2025 02:00	11.94	123.67	137.89	0.01	30.85	332.69
30/10/2025 03:00	11.73	79.33	141.71	0.02	30.36	380.35
30/10/2025 04:00	11.61	160.33	143.68	0.02	30.83	333.70
30/10/2025 05:00	11.65	103.67	152.06	0.01	30.02	349.82
30/10/2025 06:00	11.69	94.67	154.14	0.01	30.79	305.25
30/10/2025 07:00	11.79	133.67	143.38	0.02	30.34	333.09
30/10/2025 08:00	11.29	101.33	149.88	0.02	30.06	301.48
30/10/2025 09:00	7.45	96.72	131.88	2.99	21.44	101.60
30/10/2025 10:00	6.72	95	137.06	5.32	19.73	86.23
30/10/2025 11:00	7.04	125.33	132.46	5.63	20.07	95.90
30/10/2025 12:00	6.88	84.67	134.16	7.01	20.17	88.33
30/10/2025 13:00	6.95	132.13	132.57	8.39	19.95	79.55
30/10/2025 14:00	7.13	105	131.03	7.38	20.45	84.89
30/10/2025 15:00	6.82	79.67	138.34	7.39	19.76	85.35
30/10/2025 16:00	6.72	80.67	133.21	5.84	20.25	88.73
30/10/2025 17:00	6.91	102.67	158.72	4.20	19.93	92.06
30/10/2025 18:00	6.45	85.33	156.58	4.05	19.64	92.46
30/10/2025 19:00	6.75	132.67	150.10	3.82	20.10	95.98
30/10/2025 20:00	6.49	84	156.07	4.03	20.08	90.79
30/10/2025 21:00	7.13	92.13	159.46	3.69	20.91	99.89
30/10/2025 22:00	10.81	71.33	161.01	0.14	29.17	290.90
30/10/2025 23:00	11.5	116.33	153.23	0.01	30.81	283.97
31/10/2025 00:00	11.49	85.33	151.65	0.01	30.91	310.30
31/10/2025 01:00	11.36	102	152.89	0.01	30.53	290.50
31/10/2025 02:00	11.63	116	145.31	0.01	30.52	317.07
31/10/2025 03:00	11.66	121.33	142.20	0.02	30.55	323.49
31/10/2025 04:00	11.67	100	139.47	0.02	30.75	337.39
31/10/2025 05:00	11.74	127.67	130.70	0.01	30.07	305.19
31/10/2025 06:00	11.54	117	140.37	0.01	30.43	360.03
31/10/2025 07:00	11.48	119	143.90	0.01	30.32	359.06
31/10/2025 08:00	10.83	118.33	155.36	0.01	30.24	239.32
31/10/2025 09:00	5.9	94	157.80	2.54	19.90	74.87
31/10/2025 10:00	6.08	75.33	143.01	1.29	19.35	77.18
31/10/2025 11:00	6.51	107.33	133.11	0.71	20.22	110.17
31/10/2025 12:00	6.71	66.23	130.10	0.07	20.66	148.18
31/10/2025 13:00	6.28	89.67	118.44	0.01	20.54	154.73
31/10/2025 14:00	7.24	115.67	136.91	0.01	21.03	156.07
31/10/2025 15:00	7.01	81.67	147.43	0.01	20.37	116.67
31/10/2025 16:00	6.78	119	148.52	0.03	20.00	125.54
31/10/2025 17:00	6.97	87	152.59	0.03	20.28	130.08
31/10/2025 18:00	7.12	111.33	153.33	0.01	20.82	119.88
31/10/2025 19:00	6.76	114.33	154.93	0.01	20.06	104.22
31/10/2025 20:00	6.19	114.33	140.81	0.29	19.39	92.98
31/10/2025 21:00	6.95	73.77	148.51	0.05	20.28	117.39
31/10/2025 22:00	11.44	83	133.92	0.01	30.38	323.18
31/10/2025 23:00	12.14	78.33	125.30	0.02	30.92	343.60
Minimum	5.90	29.33	105.39	0.00	19.35	74.87
Maximum	12.31	19,731.33	164.34	9.58	30.96	420.76
Avg	7.94	132.02	147.41	2.37	21.89	151.19
SUM						
STD			STD = 171.4 , 200	STD = 53.49 , 80	STD = 85.73 , 120	STD = - , 690

Site Name: GULF_GCG
Stack Name: Boiler
Periodically: 01/11/2025 00:00-30/11/2025 23:59

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
1/11/2025 0:00	7.43	155	144.81	0.01	20.10	137.90
1/11/2025 1:00	6.47	104	149.43	0.03	19.87	96.32
1/11/2025 2:00	6.72	134	148.76	0.01	19.90	101.59
1/11/2025 3:00	6.78	84.26	156.89	0.04	19.87	104.78
1/11/2025 4:00	7.08	130.33	163.11	0.12	20.31	113.78
1/11/2025 5:00	7.9	130	156.30	0.01	22.07	145.47
1/11/2025 6:00	8.1	135	144.09	0.01	22.12	151.89
1/11/2025 7:00	7.41	117.67	158.31	0.01	20.78	123.96
1/11/2025 8:00	6.73	111.33	157.73	0.36	19.68	99.63
1/11/2025 9:00	6.48	99	152.21	1.27	19.63	96.13
1/11/2025 10:00	7.11	82.33	153.86	0.75	20.19	110.97
1/11/2025 11:00	6.58	90	145.34	0.49	19.82	97.77
1/11/2025 12:00	6.69	119.67	146.91	0.27	19.50	97.23
1/11/2025 13:00	6.63	107.33	145.28	0.22	19.45	100.57
1/11/2025 14:00	6.53	86.67	150.40	0.28	19.47	95.38
1/11/2025 15:00	6.65	91.33	142.85	2.36	19.43	93.23
1/11/2025 16:00	6.88	90	146.67	2.88	19.75	97.90
1/11/2025 17:00	6.72	85.67	143.91	2.44	19.53	95.06
1/11/2025 18:00	6.66	93	143.66	2.37	19.77	103.73
1/11/2025 19:00	6.39	96.07	145.83	4.97	19.14	88.53
1/11/2025 20:00	5.99	123.93	145.50	5.36	18.80	91.78
1/11/2025 21:00	6.79	150.67	146.61	4.64	19.94	98.75
1/11/2025 22:00	6.98	97	140.00	4.24	20.04	102.38
1/11/2025 23:00	6.85	96.27	147.56	4.25	19.88	98.96
2/11/2025 0:00	7.22	97	146.97	2.89	20.27	104.14
2/11/2025 1:00	7.2	109.33	149.25	2.82	20.18	110.76
2/11/2025 2:00	7.09	106.56	146.96	2.39	20.09	108.33
2/11/2025 3:00	6.92	85.33	160.85	2.54	19.78	109.08
2/11/2025 4:00	6.89	92.67	143.44	2.55	19.81	106.54
2/11/2025 5:00	6.95	131	146.56	1.69	19.97	113.94
2/11/2025 6:00	7.23	85	147.77	1.37	20.52	120.20
2/11/2025 7:00	7.12	69.33	147.01	2.39	20.01	103.27
2/11/2025 8:00	6.85	76.07	148.64	2.67	19.68	102.48
2/11/2025 9:00	6.92	83	140.97	3.70	20.03	101.12
2/11/2025 10:00	7	102.33	143.20	5.46	20.25	106.33
2/11/2025 11:00	6.94	72.33	141.54	4.24	19.86	103.16
2/11/2025 12:00	6.9	91.67	144.04	4.71	19.70	104.19
2/11/2025 13:00	6.73	60.67	145.94	5.20	19.61	101.07
2/11/2025 14:00	7	61.33	147.00	4.64	20.04	108.42
2/11/2025 15:00	7.52	84.33	144.69	2.86	21.01	118.84
2/11/2025 16:00	7.32	142.33	142.26	1.99	20.69	116.04
2/11/2025 17:00	8.47	108	149.38	0.63	22.59	149.27
2/11/2025 18:00	9.7	109	141.21	0.47	20.07	244.01
2/11/2025 19:00	10.09	71.33	110.97	0.02	22.76	331.36
2/11/2025 20:00	10.09	95	115.11	0.02	22.36	255.73
2/11/2025 21:00	10.96	103.33	106.38	0.03	22.80	279.70
2/11/2025 22:00	10.43	67.33	154.09	0.02	18.74	317.02
2/11/2025 23:00	7.18	80	142.91	1.66	20.54	102.95
3/11/2025 0:00	7.52	109.67	148.29	4.82	21.10	108.02
3/11/2025 1:00	7.68	141.67	149.09	4.45	21.02	120.64
3/11/2025 2:00	7.59	111.67	148.54	3.01	20.98	115.58
3/11/2025 3:00	7.67	110.67	141.92	2.52	21.05	119.32
3/11/2025 4:00	7.72	118.33	140.63	2.57	21.10	124.66
3/11/2025 5:00	7.38	98.33	142.50	4.70	20.51	111.14
3/11/2025 6:00	6.94	83.33	140.65	5.46	19.91	100.34
3/11/2025 7:00	7.04	100.33	147.20	4.48	19.95	105.30
3/11/2025 8:00	6.95	92.33	144.72	4.90	19.90	107.19
3/11/2025 9:00	6.71	77.33	140.12	6.84	20.29	102.52
3/11/2025 10:00	7.04	86	140.57	4.98	20.07	101.14
3/11/2025 11:00	7.42	95	142.49	2.75	20.82	114.15
3/11/2025 12:00	7.41	92	148.64	1.48	20.75	115.89

	Actual Operation Condition		Emission Concentration for Standardization Comparison			
Date & Time	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
3/11/2025 13:00	7.31	129.51	146.28	1.52	20.54	112.77
3/11/2025 14:00	7.44	115	147.22	1.40	20.73	117.38
3/11/2025 15:00	7.16	103.67	148.86	4.73	20.28	104.14
3/11/2025 16:00	7.14	76	144.33	8.72	20.26	101.56
3/11/2025 17:00	7.04	77.33	142.87	7.82	20.32	99.85
3/11/2025 18:00	7.1	77	142.12	8.46	20.12	99.99
3/11/2025 19:00	6.91	78.67	147.52	6.57	19.68	99.62
3/11/2025 20:00	6.48	133	144.40	8.80	19.74	90.89
3/11/2025 21:00	6.7	63	148.92	7.76	19.74	87.54
3/11/2025 22:00	6.92	83	148.43	7.40	20.65	90.38
3/11/2025 23:00	6.84	100.33	141.05	7.98	20.00	92.99
4/11/2025 0:00	6.82	116	149.89	8.36	20.07	98.67
4/11/2025 1:00	6.9	75.67	141.51	7.53	20.30	98.71
4/11/2025 2:00	6.93	147.33	143.01	7.64	19.91	97.36
4/11/2025 3:00	7.06	101.33	148.00	5.25	20.21	107.05
4/11/2025 4:00	6.97	177.67	140.93	5.03	20.00	103.77
4/11/2025 5:00	7.19	115.67	140.29	3.62	20.40	111.43
4/11/2025 6:00	7.1	111.67	148.71	4.62	20.09	101.52
4/11/2025 7:00	7.38	101.33	146.79	3.35	20.55	112.97
4/11/2025 8:00	7.39	76	143.05	3.58	21.05	119.61
4/11/2025 9:00	8.22	114	161.76	3.15	20.49	178.98
4/11/2025 10:00	8.06	110.67	143.86	4.41	21.81	151.13
4/11/2025 11:00	7.42	67.33	143.25	3.80	20.62	123.18
4/11/2025 12:00	7.13	91.67	148.34	5.73	20.48	109.09
4/11/2025 13:00	7.23	102.67	145.08	5.25	20.94	113.54
4/11/2025 14:00	7.52	139.33	146.84	3.63	21.00	129.45
4/11/2025 15:00	7.29	83	144.57	5.24	20.28	105.54
4/11/2025 16:00	7.93	124.67	144.05	6.80	22.07	129.09
4/11/2025 17:00	6.93	97.67	148.14	8.41	20.03	106.43
4/11/2025 18:00	7.04	85	148.67	4.96	20.23	127.54
4/11/2025 19:00	8.9	119.67	141.18	1.07	20.18	224.29
4/11/2025 20:00	6.84	147.67	149.59	3.21	20.28	121.39
4/11/2025 21:00	6.99	103.33	145.59	6.25	20.02	110.11
4/11/2025 22:00	7.13	141	145.64	4.81	20.45	111.82
4/11/2025 23:00	7.18	118.31	147.89	2.82	20.35	121.65
5/11/2025 0:00	7.28	118.33	140.28	4.92	21.99	115.38
5/11/2025 1:00	7.71	75	146.10	4.45	21.28	138.42
5/11/2025 2:00	7.38	67.67	149.18	2.97	20.57	123.80
5/11/2025 3:00	7.38	143.33	141.73	3.40	20.53	121.89
5/11/2025 4:00	7.27	128.33	140.98	5.46	20.49	116.60
5/11/2025 5:00	7.24	101.64	140.91	6.12	20.43	116.44
5/11/2025 6:00	7.62	94.67	145.07	5.45	20.98	120.34
5/11/2025 7:00	7.61	104	148.51	6.03	21.02	121.07
5/11/2025 8:00	7.45	87.33	142.75	6.40	20.73	105.54
5/11/2025 9:00	7.94	119	143.69	7.39	22.10	129.83
5/11/2025 10:00	9.06	99.67	148.82	8.29	20.73	199.85
5/11/2025 11:00	8.12	63	145.79	8.99	21.90	156.37
5/11/2025 12:00	7.05	83.33	144.10	8.89	19.94	115.98
5/11/2025 13:00	6.64	75.67	148.77	7.17	19.30	97.79
5/11/2025 14:00	7.17	139	146.34	7.40	20.35	123.57
5/11/2025 15:00	7.97	94.67	147.72	4.90	22.29	186.38
5/11/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 22:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
5/11/2025 23:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 0:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 1:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 2:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 3:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
6/11/2025 4:00	7.55	144	141.57	5.58	21.14	142.07
6/11/2025 5:00	7.6	110	140.41	6.82	20.87	141.07
6/11/2025 6:00	7.3	89	142.39	8.20	20.32	127.45
6/11/2025 7:00	7.7	135.33	148.14	5.60	21.09	155.83
6/11/2025 8:00	7.35	83	142.16	5.66	20.37	133.41
6/11/2025 9:00	7.21	101.67	142.90	7.01	20.50	128.71
6/11/2025 10:00	7.61	79.33	143.61	9.72	20.93	129.98
6/11/2025 11:00	7.49	81	148.46	8.70	20.19	137.41
6/11/2025 12:00	7.31	104	145.82	5.51	20.15	140.27
6/11/2025 13:00	7.14	83.33	149.01	3.92	21.99	158.97
6/11/2025 14:00	7.26	107	141.54	3.57	22.45	150.34
6/11/2025 15:00	7.42	126	148.43	3.62	20.60	148.48
6/11/2025 16:00	7.44	127.33	145.47	5.32	20.54	142.59
6/11/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
6/11/2025 21:00	7.5	115.33	148.83	5.45	20.87	136.69
6/11/2025 22:00	7.33	102.62	148.03	4.15	20.37	134.28
6/11/2025 23:00	7.81	130.36	141.10	5.01	21.32	139.03
7/11/2025 0:00	7.42	137.67	148.17	6.00	20.49	120.20
7/11/2025 1:00	7.25	114.67	145.45	8.77	20.26	120.34
7/11/2025 2:00	10.3	96	148.00	2.87	20.11	323.19
7/11/2025 3:00	11.3	117	151.56	0.34	20.75	283.71
7/11/2025 4:00	9.65	88.33	162.92	2.14	20.20	312.89
7/11/2025 5:00	8.61	100	140.26	2.90	20.11	192.21
7/11/2025 6:00	7.71	126.67	142.66	4.74	21.04	134.06
7/11/2025 7:00	7.89	147	144.41	3.70	21.34	147.72
7/11/2025 8:00	7.65	81.64	147.10	5.17	20.86	134.92
7/11/2025 9:00	7.16	87.33	147.75	8.98	20.39	117.35
7/11/2025 10:00	8.55	64.67	140.79	2.87	22.76	181.13
7/11/2025 11:00	7.97	86.33	142.94	4.42	21.50	155.08
7/11/2025 12:00	7.67	101.67	148.20	2.76	21.00	141.35
7/11/2025 13:00	8	126.67	140.19	2.27	21.69	182.26
7/11/2025 14:00	7.54	97.33	146.89	2.93	20.62	152.47
7/11/2025 15:00	7.4	122.33	146.39	4.29	20.40	143.39
7/11/2025 16:00	8.02	108.33	146.88	3.69	21.75	159.32
7/11/2025 17:00	9.07	126.33	146.10	2.52	20.41	204.21
7/11/2025 18:00	7.36	120.33	144.85	6.08	20.48	126.14
7/11/2025 19:00	7.96	93.33	143.73	4.91	21.50	143.81
7/11/2025 20:00	7.84	105.33	148.78	4.66	21.65	125.83
7/11/2025 21:00	7.94	97.67	145.18	3.48	21.73	130.15
7/11/2025 22:00	7.96	126.67	145.76	2.04	21.58	145.68
7/11/2025 23:00	7.63	86	149.40	2.84	20.96	132.77
8/11/2025 0:00	7.57	92.33	147.99	4.24	20.80	121.44
8/11/2025 1:00	7.88	128.33	146.99	4.04	21.36	133.02
8/11/2025 2:00	8.95	94.43	148.08	1.76	20.64	194.89
8/11/2025 3:00	8.54	110	147.95	1.25	22.66	182.95
8/11/2025 4:00	8.25	138.33	143.54	0.55	22.04	157.12
8/11/2025 5:00	8.31	124	149.84	0.75	22.17	158.46
8/11/2025 6:00	8.37	75.33	149.12	1.37	22.25	158.99
8/11/2025 7:00	8.16	108	142.82	1.33	21.94	161.55
8/11/2025 8:00	7.71	76.67	140.74	2.21	20.95	137.30
8/11/2025 9:00	7.38	118	142.95	2.55	20.85	127.08
8/11/2025 10:00	7.92	79.33	146.96	1.58	21.32	140.87
8/11/2025 11:00	7.94	102.33	141.03	1.99	21.52	142.30
8/11/2025 12:00	7.81	86.33	144.88	0.79	21.35	147.98
8/11/2025 13:00	8.04	98.67	148.17	0.86	21.75	162.77
8/11/2025 14:00	8.38	122.33	143.20	0.73	22.48	181.74
8/11/2025 15:00	8.47	114.33	145.63	1.05	22.58	177.36
8/11/2025 16:00	7.85	108.33	148.29	1.35	21.47	167.42
8/11/2025 17:00	10.23	130.67	145.33	0.02	22.07	322.41
8/11/2025 18:00	11.18	100.33	146.80	0.02	21.28	278.83
8/11/2025 19:00	7.62	69.67	149.67	0.52	20.96	149.60

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
8/11/2025 20:00	7.24	147.33	141.07	3.75	20.56	128.62
8/11/2025 21:00	7.57	116.33	140.75	5.45	21.01	132.18
8/11/2025 22:00	7.67	120.33	148.77	3.68	21.01	135.06
8/11/2025 23:00	8.03	114	143.12	2.85	21.69	153.35
9/11/2025 0:00	7.86	109.67	142.59	5.50	21.40	146.32
9/11/2025 1:00	7.83	100.67	149.81	3.50	21.44	138.25
9/11/2025 2:00	7.71	119.34	148.44	4.20	21.05	134.57
9/11/2025 3:00	8.06	138.33	142.79	2.05	21.83	144.08
9/11/2025 4:00	7.67	98.67	162.17	0.94	21.12	146.46
9/11/2025 5:00	7.75	109	148.65	3.40	21.17	127.81
9/11/2025 6:00	7.64	132	149.08	3.08	21.06	137.09
9/11/2025 7:00	7.76	86.67	142.39	3.46	21.13	135.52
9/11/2025 8:00	7.54	62.33	141.93	7.44	20.86	108.41
9/11/2025 9:00	7.62	113	143.57	9.47	21.34	119.04
9/11/2025 10:00	8	81.97	143.38	7.78	21.74	136.05
9/11/2025 11:00	7.63	106.56	147.39	5.65	20.81	128.55
9/11/2025 12:00	7.32	112.67	143.35	9.53	20.31	112.97
9/11/2025 13:00	7.66	85.67	143.43	8.30	20.94	127.87
9/11/2025 14:00	7.27	1540	141.86	7.72	20.83	114.28
9/11/2025 15:00	7.54	153.33	142.00	5.65	21.11	120.40
9/11/2025 16:00	7.86	105	145.02	4.33	21.46	138.35
9/11/2025 17:00	8.05	147.87	153.81	4.12	21.84	154.02
9/11/2025 18:00	7.76	138	154.44	4.41	21.29	149.60
9/11/2025 19:00	7.34	107	146.38	5.76	20.46	124.03
9/11/2025 20:00	8.96	113	141.44	3.95	20.76	221.79
9/11/2025 21:00	9.65	104	159.80	3.34	20.12	293.71
9/11/2025 22:00	7.52	80.33	141.72	6.79	20.94	121.54
9/11/2025 23:00	7.66	87.33	144.88	4.89	21.18	136.89
10/11/2025 0:00	8.11	128.67	145.33	4.35	21.95	158.97
10/11/2025 1:00	7.77	141.67	147.43	5.90	21.21	143.23
10/11/2025 2:00	7.49	86.67	149.09	5.33	20.84	136.00
10/11/2025 3:00	7.71	76.67	162.76	4.26	21.09	144.65
10/11/2025 4:00	7.64	93.67	148.22	4.15	21.03	138.70
10/11/2025 5:00	7.7	142.67	145.55	5.16	21.25	135.31
10/11/2025 6:00	8.02	131	146.30	4.13	21.78	148.18
10/11/2025 7:00	7.99	93.77	141.35	4.39	21.70	157.28
10/11/2025 8:00	7.88	107.67	147.23	4.77	21.44	153.72
10/11/2025 9:00	7.12	103	140.05	8.52	20.49	113.48
10/11/2025 10:00	7.27	87.67	145.76	8.49	20.45	109.79
10/11/2025 11:00	7.3	95.33	148.84	8.56	20.33	111.37
10/11/2025 12:00	7.4	125.33	146.98	8.49	20.42	114.32
10/11/2025 13:00	7.3	81.67	146.47	7.54	20.28	113.03
10/11/2025 14:00	7.39	121	147.66	8.28	20.41	117.61
10/11/2025 15:00	7.35	72	148.81	8.28	20.37	118.91
10/11/2025 16:00	7.22	61	140.83	6.01	20.33	120.78
10/11/2025 17:00	7.36	115.33	148.19	4.30	20.54	124.37
10/11/2025 18:00	6.96	88.33	142.73	4.43	19.82	111.24
10/11/2025 19:00	7.01	105.33	146.17	4.48	19.91	110.26
10/11/2025 20:00	6.73	106.33	146.05	5.48	19.73	110.85
10/11/2025 21:00	7.73	119.67	148.04	3.40	21.44	139.43
10/11/2025 22:00	6.89	110.33	143.65	3.39	19.87	114.57
10/11/2025 23:00	6.99	125.33	144.97	3.38	19.91	118.32
11/11/2025 0:00	7.06	100	147.65	3.52	20.05	116.67
11/11/2025 1:00	6.92	119	146.41	2.91	19.92	117.44
11/11/2025 2:00	6.82	112.33	141.53	1.72	19.67	116.82
11/11/2025 3:00	6.79	120.33	140.75	2.09	19.65	113.34
11/11/2025 4:00	6.89	92.33	143.51	2.32	19.80	119.21
11/11/2025 5:00	6.94	75	140.93	3.65	19.81	115.46
11/11/2025 6:00	7.06	101.97	145.72	2.40	20.05	124.61
11/11/2025 7:00	6.9	76	142.61	2.12	19.75	118.75
11/11/2025 8:00	6.96	86.33	141.80	2.73	19.95	125.02
11/11/2025 9:00	6.62	116	148.39	5.51	19.80	110.70
11/11/2025 10:00	6.83	97	140.92	4.54	19.92	109.62
11/11/2025 11:00	6.8	94	159.17	2.97	19.58	111.39

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
11/11/2025 12:00	6.94	95.67	143.08	3.75	19.75	103.02
11/11/2025 13:00	7.11	109.67	162.02	3.55	20.00	104.85
11/11/2025 14:00	7.37	94.67	146.88	3.69	20.40	109.69
11/11/2025 15:00	7.27	123.33	148.48	3.65	20.29	112.15
11/11/2025 16:00	7.25	105	143.10	5.88	20.40	101.20
11/11/2025 17:00	7.06	132	142.63	6.33	19.98	104.46
11/11/2025 18:00	7.12	122.67	143.32	5.50	20.13	114.93
11/11/2025 19:00	7.34	97.33	141.01	4.66	20.50	117.91
11/11/2025 20:00	7.23	70.67	144.69	3.86	20.32	116.28
11/11/2025 21:00	7.37	162.33	144.28	4.83	20.99	111.03
11/11/2025 22:00	7.56	94.67	149.57	6.00	21.28	113.63
11/11/2025 23:00	7.51	129.33	142.00	3.83	20.96	121.59
12/11/2025 0:00	7.68	79.67	145.34	3.96	21.20	118.14
12/11/2025 1:00	7.42	121.67	143.41	6.33	20.65	108.81
12/11/2025 2:00	7.3	97	149.91	5.21	20.41	117.76
12/11/2025 3:00	7.4	81.67	142.85	5.90	20.56	115.35
12/11/2025 4:00	7.24	121	141.04	6.53	20.32	107.79
12/11/2025 5:00	7.61	84.33	145.48	4.35	20.95	131.24
12/11/2025 6:00	7.52	98.67	142.30	3.99	20.78	128.66
12/11/2025 7:00	7.62	88.67	144.76	6.26	20.97	116.82
12/11/2025 8:00	7.79	83	146.99	7.30	21.19	127.15
12/11/2025 9:00	7.19	94.67	141.10	8.97	20.46	106.02
12/11/2025 10:00	7.41	118.33	142.50	8.03	20.52	108.67
12/11/2025 11:00	7.61	100	148.48	6.63	20.79	116.21
12/11/2025 12:00	7.28	69.33	144.90	7.14	20.24	105.46
12/11/2025 13:00	7.52	105.67	140.94	8.26	20.77	105.97
12/11/2025 14:00	7.33	81.67	140.34	7.00	20.38	112.08
12/11/2025 15:00	7.31	113.33	148.24	6.71	20.32	106.22
12/11/2025 16:00	6.98	75.67	146.51	8.26	19.78	103.84
12/11/2025 17:00	7.22	112	148.69	7.87	20.12	109.45
12/11/2025 18:00	6.89	97	148.27	9.06	19.64	96.86
12/11/2025 19:00	6.79	94	143.69	7.71	19.60	95.17
12/11/2025 20:00	6.83	82.33	141.85	7.23	19.72	96.91
12/11/2025 21:00	6.43	101.33	144.30	7.77	19.31	89.18
12/11/2025 22:00	6.72	110	147.09	7.51	19.67	95.12
12/11/2025 23:00	6.51	98.33	147.19	6.77	19.25	91.89
13/11/2025 00:00	6.64	73.11	149.73	6.56	19.46	96.68
13/11/2025 01:00	6.76	125	147.52	5.55	19.63	100.70
13/11/2025 02:00	7.01	117.67	149.89	5.03	20.29	109.35
13/11/2025 03:00	7.04	99.67	145.92	5.36	20.06	108.44
13/11/2025 04:00	7.02	152.33	142.07	5.18	19.98	112.27
13/11/2025 05:00	6.86	88.67	140.89	5.08	19.75	108.87
13/11/2025 06:00	7.01	108	144.99	3.03	20.07	123.64
13/11/2025 07:00	6.83	82	145.72	2.76	19.69	112.01
13/11/2025 08:00	6.82	68	148.74	3.41	19.69	110.88
13/11/2025 09:00	6.68	72.67	141.20	5.24	19.80	108.80
13/11/2025 10:00	6.68	81.67	148.87	4.01	19.67	106.91
13/11/2025 11:00	6.64	122.95	140.50	2.98	19.43	100.53
13/11/2025 12:00	6.46	80	148.77	3.90	19.19	106.38
13/11/2025 13:00	6.6	76.33	140.53	3.61	19.50	110.15
13/11/2025 14:00	6.92	89.33	141.27	3.21	19.83	117.44
13/11/2025 15:00	6.33	74.67	148.00	4.00	19.04	100.94
13/11/2025 16:00	6.42	82	143.04	3.23	19.08	103.62
13/11/2025 17:00	6.53	82.33	143.53	2.15	19.27	104.51
13/11/2025 18:00	7.12	96.67	146.65	1.70	20.06	112.54
13/11/2025 19:00	7.06	97.33	144.14	3.50	19.96	103.06
13/11/2025 20:00	6.73	73.67	145.07	5.48	19.39	95.21
13/11/2025 21:00	7	83	146.93	5.64	20.35	104.86
13/11/2025 22:00	6.96	80	145.55	4.46	19.88	100.34
13/11/2025 23:00	7.3	82.67	147.96	4.36	20.40	104.65
14/11/2025 00:00	6.94	102.67	145.41	4.99	19.77	105.61
14/11/2025 01:00	6.94	93.33	146.08	4.72	19.80	108.69
14/11/2025 02:00	6.95	122.33	145.79	5.54	19.87	100.33
14/11/2025 03:00	7.07	71.67	147.40	3.57	20.06	114.14

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
14/11/2025 04:00	7.08	106.67	163.05	2.21	20.05	110.07
14/11/2025 05:00	7.25	113	146.34	1.57	20.34	125.48
14/11/2025 06:00	7.13	117.33	147.80	1.84	20.12	118.18
14/11/2025 07:00	7.54	101.67	146.89	1.77	20.88	126.35
14/11/2025 08:00	7.05	109.33	146.59	3.03	20.17	114.84
14/11/2025 09:00	7.08	87.33	144.82	6.25	20.34	111.32
14/11/2025 10:00	7.34	68	146.31	5.48	20.39	119.47
14/11/2025 11:00	7.33	92.33	143.52	3.65	20.41	128.92
14/11/2025 12:00	6.96	63.67	146.86	2.70	20.00	121.76
14/11/2025 13:00	7.25	118.67	148.48	1.89	20.33	129.93
14/11/2025 14:00	6.91	66	146.31	2.42	19.80	114.59
14/11/2025 15:00	6.82	85.33	155.91	0.91	19.65	111.84
14/11/2025 16:00	6.97	100.33	160.17	0.75	19.89	115.41
14/11/2025 17:00	6.96	108.33	142.56	0.53	19.98	116.52
14/11/2025 18:00	7.02	103.33	145.45	0.94	20.01	124.64
14/11/2025 19:00	6.88	85.67	143.78	1.08	19.95	122.53
14/11/2025 20:00	6.58	84	141.48	1.68	19.87	115.67
14/11/2025 21:00	7.76	81.33	147.94	4.48	21.51	136.53
14/11/2025 22:00	8.22	91.33	146.38	6.17	22.09	135.80
14/11/2025 23:00	8.07	121.67	143.67	7.87	21.95	131.52
15/11/2025 00:00	7.34	81.67	140.73	7.04	20.55	102.01
15/11/2025 01:00	7.43	82	145.90	5.96	20.53	107.85
15/11/2025 02:00	7.28	95.67	146.95	6.65	20.31	106.64
15/11/2025 03:00	7.49	88.67	145.33	4.41	20.67	114.89
15/11/2025 04:00	7.84	113.67	145.87	3.18	21.32	133.40
15/11/2025 05:00	7.71	128	148.30	2.13	21.15	124.30
15/11/2025 06:00	7.65	81	144.04	3.12	21.02	119.67
15/11/2025 07:00	8.11	74.33	146.54	4.08	21.86	128.58
15/11/2025 08:00	8.31	70	149.21	6.35	22.59	142.22
15/11/2025 09:00	8.23	80.33	142.39	7.91	22.74	148.04
15/11/2025 10:00	7.3	88.33	140.66	8.22	20.32	101.53
15/11/2025 11:00	7.01	62.67	142.77	8.24	20.01	103.58
15/11/2025 12:00	7.15	77.67	142.65	8.77	20.19	111.25
15/11/2025 13:00	7.06	85.33	141.90	6.73	20.05	119.80
15/11/2025 14:00	7.01	109.33	146.24	4.64	20.03	125.93
15/11/2025 15:00	7.07	89.67	145.33	9.81	20.28	119.32
15/11/2025 16:00	6.98	108.33	142.34	8.18	20.21	115.32
15/11/2025 17:00	7.01	102.33	145.32	9.08	20.04	117.10
15/11/2025 18:00	7.12	82.33	143.53	3.18	20.20	125.95
15/11/2025 19:00	6.99	75.33	140.15	4.40	19.96	122.80
15/11/2025 20:00	6.93	124	143.43	3.31	20.41	126.06
15/11/2025 21:00	7.21	81.67	149.43	4.05	20.37	123.70
15/11/2025 22:00	7.46	102.33	144.69	3.01	20.78	137.23
15/11/2025 23:00	7.33	82.62	145.85	3.53	20.49	134.40
16/11/2025 00:00	7.44	136.67	149.82	5.50	20.69	128.89
16/11/2025 01:00	7.64	112.33	142.84	5.47	21.11	135.14
16/11/2025 02:00	8.24	105.33	145.83	2.32	22.40	177.25
16/11/2025 03:00	7.93	95.67	141.63	2.65	21.67	154.84
16/11/2025 04:00	8.49	96.33	141.15	1.45	22.59	174.32
16/11/2025 05:00	7.71	152.67	148.11	3.23	21.06	134.72
16/11/2025 06:00	7.96	110.33	148.81	3.46	21.66	153.16
16/11/2025 07:00	8.28	93.33	149.97	2.17	22.19	166.89
16/11/2025 08:00	7.12	85	141.57	6.79	20.38	116.84
16/11/2025 09:00	7.22	118	140.97	9.74	20.80	129.50
16/11/2025 10:00	7.3	61.33	146.82	8.66	20.42	124.58
16/11/2025 11:00	7.35	82.67	144.40	8.19	20.38	125.70
16/11/2025 12:00	7.33	104	143.54	9.44	20.38	129.30
16/11/2025 13:00	7.61	61.67	142.49	7.25	21.26	140.45
16/11/2025 14:00	7.53	63	146.38	6.10	20.81	131.85
16/11/2025 15:00	7.63	102.67	143.60	6.14	20.95	132.59
16/11/2025 16:00	8.38	113	146.83	3.10	22.35	159.33
16/11/2025 17:00	7.85	55.33	140.28	3.79	21.31	132.10
16/11/2025 18:00	7.66	130.16	147.46	2.13	21.13	136.65
16/11/2025 19:00	7.89	83	140.21	1.28	21.62	146.74

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
16/11/2025 20:00	7.1	80.33	147.26	3.82	20.50	115.58
16/11/2025 21:00	7.33	78.33	140.22	6.71	20.90	115.84
16/11/2025 22:00	7.47	86.33	141.01	5.66	20.90	123.28
16/11/2025 23:00	7.7	86	145.03	4.30	21.15	133.51
17/11/2025 00:00	7.8	94	140.01	3.95	21.31	130.68
17/11/2025 01:00	7.9	93	147.46	1.54	21.48	149.03
17/11/2025 02:00	7.95	109.67	146.54	0.66	21.63	151.15
17/11/2025 03:00	10.48	82.33	136.91	0.01	20.33	305.62
17/11/2025 04:00	7.78	84.67	160.86	0.10	21.48	149.41
17/11/2025 05:00	7.73	172.67	146.81	0.93	21.23	142.77
17/11/2025 06:00	7.55	139	146.91	2.66	20.91	128.03
17/11/2025 07:00	7.52	126.67	142.68	3.76	20.91	129.20
17/11/2025 08:00	6.93	111.33	143.61	6.57	20.38	111.94
17/11/2025 09:00	7.31	83.33	143.87	7.83	20.62	120.14
17/11/2025 10:00	7.52	77.33	144.71	6.93	20.80	128.75
17/11/2025 11:00	7.73	66	145.61	5.49	21.23	127.51
17/11/2025 12:00	7.42	89.33	145.21	5.88	20.63	127.99
17/11/2025 13:00	7.35	117.42	145.90	3.58	20.53	136.20
17/11/2025 14:00	7.11	76.33	145.09	2.83	20.19	118.31
17/11/2025 15:00	7.3	104	162.59	1.80	20.61	124.83
17/11/2025 16:00	7.43	84.33	162.34	0.88	20.83	139.32
17/11/2025 17:00	7.33	87.67	146.81	0.46	20.68	139.76
17/11/2025 18:00	7.27	117	149.94	0.23	20.58	130.70
17/11/2025 19:00	7.25	90.67	143.93	2.20	20.42	124.94
17/11/2025 20:00	6.85	111	147.71	6.10	20.04	115.52
17/11/2025 21:00	7.13	106.67	148.14	7.91	20.27	115.81
17/11/2025 22:00	7.21	84.67	145.93	6.74	20.33	122.47
17/11/2025 23:00	7.43	82.37	140.25	6.14	20.91	128.69
18/11/2025 00:00	7.54	101	146.05	4.63	20.90	133.82
18/11/2025 01:00	7.53	89.33	146.92	3.66	20.86	137.71
18/11/2025 02:00	7.7	106.67	144.51	3.53	21.19	145.15
18/11/2025 03:00	7.59	93	147.39	3.67	20.95	145.55
18/11/2025 04:00	7.53	143.33	146.31	3.53	20.83	141.31
18/11/2025 05:00	7.49	138.67	144.48	3.43	20.76	139.61
18/11/2025 06:00	7.55	108.52	145.66	4.15	20.94	132.06
18/11/2025 07:00	7.73	85.33	145.10	2.87	21.25	143.78
18/11/2025 08:00	6.89	80	140.91	4.21	20.02	119.30
18/11/2025 09:00	7.34	74	141.07	6.62	20.54	120.89
18/11/2025 10:00	7.32	104.33	142.09	5.94	20.45	123.90
18/11/2025 11:00	7.23	131.67	140.15	5.78	20.31	123.50
18/11/2025 12:00	7.37	96.33	148.80	3.99	20.58	128.28
18/11/2025 13:00	7.44	106	148.92	3.55	20.70	134.13
18/11/2025 14:00	7.35	96.33	149.16	4.72	20.47	127.94
18/11/2025 15:00	7.91	76.33	141.54	1.82	21.48	142.33
18/11/2025 16:00	7.43	106	142.85	3.29	20.66	120.13
18/11/2025 17:00	7.13	95.74	144.46	4.61	20.16	103.78
18/11/2025 18:00	7.3	88	142.13	3.68	20.41	112.10
18/11/2025 19:00	7.04	87.67	140.70	5.71	20.09	95.10
18/11/2025 20:00	6.74	110	143.79	7.87	19.90	90.34
18/11/2025 21:00	7.48	89.33	146.54	6.42	20.89	109.00
18/11/2025 22:00	7.08	98.33	146.70	4.89	20.40	103.64
18/11/2025 23:00	7.18	111.33	145.01	4.35	20.38	106.50
19/11/2025 00:00	7.12	136.67	149.41	4.97	20.26	105.26
19/11/2025 01:00	7.27	167	148.80	3.68	20.42	112.06
19/11/2025 02:00	7.41	118.69	149.59	3.54	20.71	118.76
19/11/2025 03:00	7.15	48.67	149.96	4.38	20.15	111.98
19/11/2025 04:00	7.28	92	143.30	6.68	20.49	110.07
19/11/2025 05:00	7.09	100.67	144.38	7.79	20.28	107.82
19/11/2025 06:00	6.93	102.33	140.15	8.03	19.95	99.53
19/11/2025 07:00	7.37	98.33	140.97	7.90	20.56	115.96
19/11/2025 08:00	6.78	117	142.81	8.51	20.26	101.28
19/11/2025 09:00	7.11	77.33	144.28	9.41	20.62	102.37
19/11/2025 10:00	7.3	116	144.90	7.99	20.56	111.69
19/11/2025 11:00	7.1	51.33	144.40	6.92	20.27	113.27

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
19/11/2025 12:00	7.5	85.67	141.82	8.32	20.90	120.04
19/11/2025 13:00	8.66	63	148.82	5.32	20.15	176.20
19/11/2025 14:00	7.98	73	142.44	4.23	21.68	154.47
19/11/2025 15:00	7.42	92	146.88	3.74	20.74	132.28
19/11/2025 16:00	6.92	96.67	144.95	4.85	20.19	113.30
19/11/2025 17:00	6.85	152	142.24	7.84	19.92	106.29
19/11/2025 18:00	6.78	104	149.25	7.83	20.57	111.08
19/11/2025 19:00	6.72	478	143.07	8.97	20.08	104.69
19/11/2025 20:00	7.76	86.67	145.29	8.14	22.72	141.00
19/11/2025 21:00	9.42	91.67	148.86	4.92	20.56	259.51
19/11/2025 22:00	6.62	142.67	149.47	8.50	21.04	103.41
19/11/2025 23:00	6.98	136	145.15	8.38	20.46	113.17
20/11/2025 00:00	6.86	112.13	148.78	8.53	20.26	106.51
20/11/2025 01:00	6.71	117.67	145.82	9.43	20.46	106.12
20/11/2025 02:00	7.12	151.67	149.08	8.27	20.89	115.38
20/11/2025 03:00	7.38	122.33	143.21	6.98	20.79	126.17
20/11/2025 04:00	6.9	172	142.65	6.61	20.14	116.64
20/11/2025 05:00	7	105.33	144.40	5.53	20.26	121.43
20/11/2025 06:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 07:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 08:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 09:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 10:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 11:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 12:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 13:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 14:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 15:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 16:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 17:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
20/11/2025 19:00	7.51	133.33	157.63	0.02	21.01	148.20
20/11/2025 20:00	7.31	170	149.84	0.16	20.65	126.45
20/11/2025 21:00	7.89	120.67	158.13	1.03	21.50	111.58
20/11/2025 22:00	8.02	130.67	148.42	0.74	21.95	153.40
20/11/2025 23:00	7.37	110	149.87	0.93	20.73	165.93
21/11/2025 00:00	9.92	103	130.71	0.28	20.45	260.62
21/11/2025 01:00	6.66	120.67	155.67	0.38	19.65	121.89
21/11/2025 02:00	8.8	173.33	148.81	0.02	20.64	225.22
21/11/2025 03:00	6.09	91.67	145.17	2.93	18.68	96.86
21/11/2025 04:00	6.09	108	140.25	4.59	18.70	100.71
21/11/2025 05:00	5.89	147	148.93	5.95	18.49	94.47
21/11/2025 06:00	10.88	149	163.87	0.08	20.17	283.62
21/11/2025 07:00	7.57	158.33	148.47	2.51	22.03	132.15
21/11/2025 08:00	10.97	103.33	159.59	0.18	20.12	226.98
21/11/2025 09:00	8.04	148.33	146.58	0.76	22.82	192.97
21/11/2025 10:00	7.76	141.33	145.49	0.89	21.98	180.67
21/11/2025 11:00	7.66	142.67	147.69	1.24	21.86	164.71
21/11/2025 12:00	7.34	69	140.99	1.20	20.87	164.66
21/11/2025 13:00	7.04	121	146.41	3.37	20.81	152.08
21/11/2025 14:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 15:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 16:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 17:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 18:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 19:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 20:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 21:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 22:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
21/11/2025 23:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
22/11/2025 00:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
22/11/2025 01:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
22/11/2025 02:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down

[illegible]

[illegible]

[illegible]

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
30/11/2025 03:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 04:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 05:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 06:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 07:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 08:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 09:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 10:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 11:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 12:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 13:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 14:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 15:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 16:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 17:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 18:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 19:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 20:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 21:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 22:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
30/11/2025 23:00	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down
Minimum	5.89	48.67	106.38	0.01	18.49	87.54
Maximum	11.30	1,540.00	163.87	9.81	22.82	331.36
Avg	7.45	106.36	145.76	4.39	20.61	129.71
SUM						
STD			STD = 171.4, 200	STD = 53.49, 60	STD = 85.73 , 130	STD = - , 690

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Date & Time	Actual Operation Condition		Emission Concentration for Standardization Comparison			
	O2	FLOW @1 ATM 25C	Boiler_NOx@7%O2	Boiler_SOx@7%O2	Boiler_Dust (7%O2)	Boiler_CO@7%O2
	%	m3/hr	ppm	ppm	ppm	ppm
31/12/2025 18:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
31/12/2025 19:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
31/12/2025 20:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
31/12/2025 21:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
31/12/2025 22:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
31/12/2025 23:00	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
Minimum	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00
Avg	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SUM						
STD			STD = 171.4, 200	STD = 53.49, 60	STD = 85.73, 120	STD = -, 690

ภาคผนวก ค-2

ผลตรวจสอบความถูกต้องของระบบ CEMs (System Audit CEMs)



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576907

Date Received : Oct 29, 2025
Date Reported : Nov 20, 2025
Report Number : 3384652-1

Page 1 of 4

Sample Number : 2576907-1
Sampled Date : Oct 28, 2025
Sample Description : Emission from Stationary Source
Location : S1 ปล่อง Boiler No.PB1511
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	28 Oct 25	10:40	11:00	156.37	152.86	161.85	165.02	3.17
2	28 Oct 25	11:01	11:21	156.40	153.51	164.17	167.92	3.75
3	28 Oct 25	11:22	11:42	155.89	152.69	157.45	159.97	2.51
4	28 Oct 25	11:43	12:03	149.57	148.65	154.34	159.48	5.14
5	28 Oct 25	12:04	12:24	154.29	153.99	154.43	160.45	6.03
6	28 Oct 25	12:25	12:45	148.38	149.09	155.43	162.60	7.16
7	28 Oct 25	12:46	13:06	156.27	155.97	157.30	163.03	5.73
8	28 Oct 25	13:07	13:27	160.33	158.87	160.52	165.34	4.82
9*	28 Oct 25	13:28	13:48	151.93	152.84	158.18	165.79	7.61
10*	28 Oct 25	13:49	14:09	152.29	153.75	153.86	161.04	7.18
11	28 Oct 25	14:10	14:30	154.74	153.90	160.61	166.84	6.23
12*	28 Oct 25	14:31	14:51	153.91	154.76	159.87	167.88	8.01
Average						158.46	163.41	4.95
Confidence Coefficient (CC)								1.18
Relative Accuracy (Compared with RM) (%)								3.75
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

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

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576907

Date Received : Oct 29, 2025
Date Reported : Nov 20, 2025
Report Number : 3384652-1

Page 2 of 4

Sample Number 2576907-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
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	28 Oct 25	10:40	11:00	1.37	1.41	1.42	1.52	0.10
2*	28 Oct 25	11:01	11:21	1.01	2.30	1.06	2.52	1.45
3	28 Oct 25	11:22	11:42	2.14	2.34	2.16	2.46	0.29
4	28 Oct 25	11:43	12:03	1.75	2.09	1.81	2.25	0.44
5	28 Oct 25	12:04	12:24	2.34	2.38	2.34	2.48	0.14
6	28 Oct 25	12:25	12:45	1.33	2.41	1.39	2.63	1.24
7	28 Oct 25	12:46	13:06	2.04	2.59	2.06	2.71	0.65
8	28 Oct 25	13:07	13:27	2.29	2.65	2.29	2.76	0.47
9	28 Oct 25	13:28	13:48	1.40	2.48	1.46	2.69	1.23
10	28 Oct 25	13:49	14:09	1.49	2.48	1.50	2.60	1.09
11*	28 Oct 25	14:10	14:30	0.98	2.49	1.02	2.70	1.69
12*	28 Oct 25	14:31	14:51	0.69	2.48	0.71	2.70	1.98
Average						1.83	2.45	0.63
Confidence Coefficient (CC)								0.35
Relative Accuracy (Compared with Emission Standard : 53.49 ppm) (%)								1.83
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 53.49 ppm at 7%O2
RA Result is within Criteria

Technical Management



Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by



Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576907

Date Received : Oct 29, 2025
Date Reported : Nov 20, 2025
Report Number : 3384652-1

Page 3 of 4

Sample Number 2576907-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter CO

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	28 Oct 25	10:40	11:00	115.68	102.73	119.73	110.90	-8.83
2*	28 Oct 25	11:01	11:21	113.48	98.36	119.12	107.58	-11.54
3*	28 Oct 25	11:22	11:42	114.30	98.01	115.45	102.68	-12.77
4	28 Oct 25	11:43	12:03	130.15	118.52	134.31	127.15	-7.15
5	28 Oct 25	12:04	12:24	118.79	107.75	118.89	112.28	-6.62
6	28 Oct 25	12:25	12:45	127.53	115.88	133.59	126.39	-7.21
7	28 Oct 25	12:46	13:06	120.24	107.78	121.03	112.66	-8.36
8	28 Oct 25	13:07	13:27	114.30	102.32	114.43	106.49	-7.94
9	28 Oct 25	13:28	13:48	134.52	123.51	140.05	133.98	-6.07
10*	28 Oct 25	13:49	14:09	135.41	121.04	136.82	126.78	-10.04
11	28 Oct 25	14:10	14:30	124.73	114.26	129.46	123.87	-5.60
12	28 Oct 25	14:31	14:51	129.76	119.07	134.78	129.16	-5.62
Average						127.36	120.32	-7.04
Confidence Coefficient (CC)								0.79
Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)								1.14
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 5%

Reference Method : US EPA Method 10

Remark: * Sample with * is a rejected data

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

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576907

Date Received : Oct 29, 2025
Date Reported : Nov 20, 2025
Report Number : 3384652-1

Page 4 of 4

Sample Number 2576907-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	28 Oct 25	10:40	11:00	7.47	8.02	0.55
2	28 Oct 25	11:01	11:21	7.66	8.19	0.53
3	28 Oct 25	11:22	11:42	7.14	7.63	0.49
4	28 Oct 25	11:43	12:03	7.43	7.94	0.51
5	28 Oct 25	12:04	12:24	7.01	7.56	0.55
6	28 Oct 25	12:25	12:45	7.63	8.16	0.52
7	28 Oct 25	12:46	13:06	7.09	7.60	0.51
8	28 Oct 25	13:07	13:27	7.02	7.54	0.53
9	28 Oct 25	13:28	13:48	7.55	8.09	0.54
10	28 Oct 25	13:49	14:09	7.14	7.63	0.49
11*	28 Oct 25	14:10	14:30	7.51	8.08	0.57
12*	28 Oct 25	14:31	14:51	7.52	8.09	0.57
Average				7.30	7.82	0.52
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.52
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

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

RA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576909
Date Received: Oct 29, 2025
Date Reported: Nov 20, 2025
Report Number: 3439662-1

Page 1 of 2

Sample Number 2576909-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter Relative Response Audit

Relative Response Audit Test Report

No Sample	Date	Time		CEMS Values		RM Values (mg/m ³ at 7%O ₂)	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m ³ at 7%O ₂)		Minimum	Maximum	
1	28-Oct-25	10:40	11:12	3.76	22.80	6.6	-7.20	52.80	Pass
2	28-Oct-25	11:40	12:12	3.85	22.51	7.1	-7.49	52.51	Pass
3	28-Oct-25	12:40	13:12	3.64	22.16	7.2	-7.84	52.16	Pass
4	28-Oct-25	13:30	14:02	3.68	22.19	9.4	-7.81	52.19	Pass
5	28-Oct-25	14:15	14:47	3.73	22.67	8.2	-7.33	52.67	Pass

Remark : - At least two of the three sets PM CEMS and RM measurements must fall within the allowable range on a graph of the correlation regression line.
- 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)
- Correlation Equation of Linear curve $Y = 1.1918X + 17.3905$
- Emission limit 120 mg/m³ from Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130

P/O : 4230124013

Project Name :

Project Location : GCG

Lot ID: 2576909

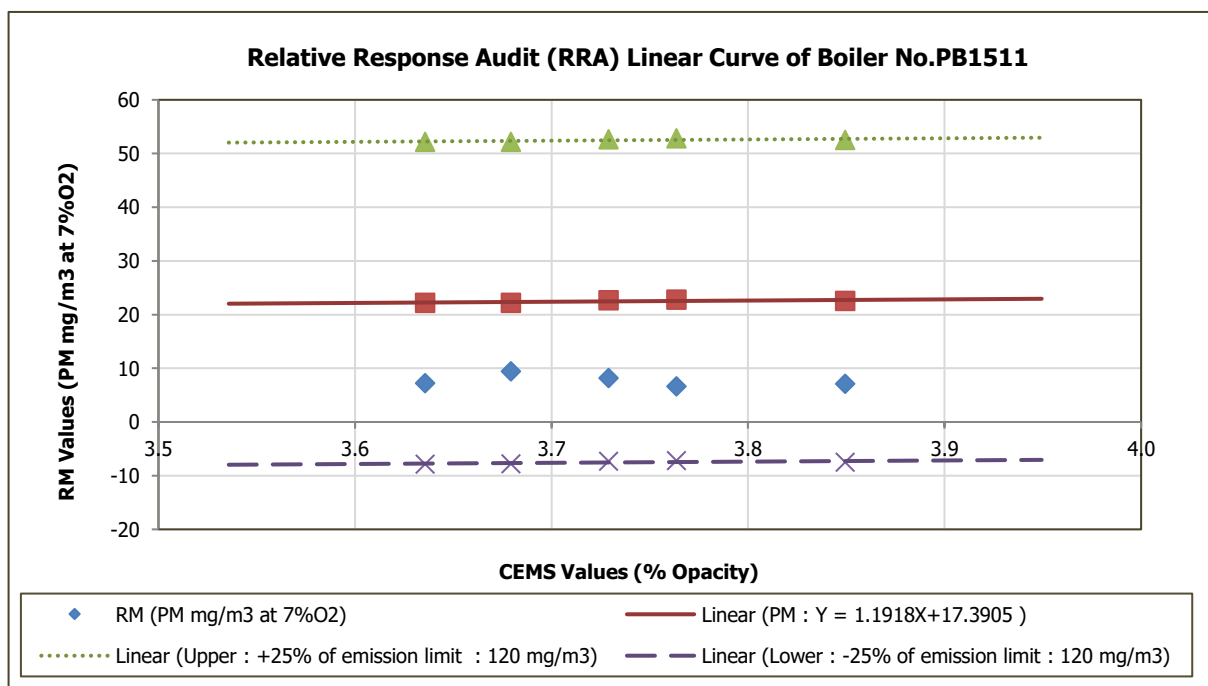
Date Received: Oct 29, 2025

Date Reported: Nov 20, 2025

Report Number: 3439662-1

Page 2 of 2

Sample Number 2576909-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter Relative Response Audit



Sampled By : Khanetson Khamphet

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2515928

Date Received : Mar 26, 2025
Date Reported : Apr 21, 2025
Report Number : 3271199-1

Page 1 of 2

Sample Number 2515928-1
Sampled Date Mar 22, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter Flowrate

Relative Accuracy Test Audit Report

Run No.	Date	Time		Flowrate Data		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1*	22 Mar 25	9:20	9:40	118,530	133,064	14,534
2*	22 Mar 25	9:41	10:01	118,481	133,918	15,437
3*	22 Mar 25	10:02	10:22	119,687	133,330	13,643
4	22 Mar 25	10:23	10:43	121,188	132,787	11,599
5	22 Mar 25	10:44	11:04	126,217	131,099	4,882
6	22 Mar 25	11:05	11:25	129,357	131,233	1,876
7	22 Mar 25	11:26	11:46	124,763	130,580	5,817
8	22 Mar 25	11:47	12:07	122,006	130,645	8,639
9	22 Mar 25	12:08	12:28	121,671	128,417	6,746
10	22 Mar 25	12:29	12:49	120,890	129,572	8,682
11	22 Mar 25	12:50	13:10	120,065	129,679	9,614
12	22 Mar 25	13:11	13:31	118,662	128,739	10,077
Average				122,758	130,306	7,548
Confidence Coefficient (CC)						2,314
Relative Accuracy ^{1/} (Compared with RM) (%)						7.57
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} 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 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 Chana Green Co., Ltd.

Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130

P/O : 4230124013

Project Name :

Project Location : GCG

Lot ID: 2515928

Date Received : Mar 26, 2025

Date Reported : Apr 21, 2025

Report Number : 3271199-1

Page 2 of 2

Sample Number 2515928-1
Sampled Date Mar 22, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Parameter Stack Temperature

Relative Accuracy Test Audit Report

Run No.	Date	Time		Temperature Data		Difference
		Start	Stop	CEMs (°C)	RM (°C)	
1	22 Mar 25	9:20	9:40	156.9	160.1	3.2
2	22 Mar 25	9:41	10:01	155.8	157.6	1.8
3	22 Mar 25	10:02	10:22	154.9	157.3	2.3
4	22 Mar 25	10:23	10:43	154.6	158.4	3.8
5	22 Mar 25	10:44	11:04	154.2	157.7	3.5
6*	22 Mar 25	11:05	11:25	153.5	157.3	3.9
7	22 Mar 25	11:26	11:46	154.7	157.8	3.1
8	22 Mar 25	11:47	12:07	154.7	158.3	3.6
9	22 Mar 25	12:08	12:28	154.7	158.5	3.8
10*	22 Mar 25	12:29	12:49	154.6	158.8	4.2
11	22 Mar 25	12:50	13:10	154.7	157.5	2.8
12*	22 Mar 25	13:11	13:31	155.0	158.8	3.8
Average				155.0	158.1	3.1
Confidence Coefficient (CC)						0.5
Relative Accuracy ^{1/} (Compared with RM) (%)						2.3
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} 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 : Anuvat Mounpair

Technical Management

[Redacted Signature]

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-0006

Approved by

[Redacted Signature]

Sarayuth Jittranont
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0003

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S:\Reports\Stack_CEMs1.rpt

ภาพถ่ายการติดตามตรวจสอบ CEMs System Audit
โรงไฟฟ้าถ่านหิน จะนะ กรีน บริษัท ถ่านหิน จะนะ กรีน จำกัด
วันที่ 30 กรกฎาคม พ.ศ. 2568
Boiler No. PB1511

รูปถ่ายการตรวจสอบ CEMs System Audit



ภาคผนวก ค-3

คุณภาพอากาศจากปล่องระบายอากาศ



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576889
Date Received : Oct 29, 2025
Date Reported : Nov 10, 2025
Report Number : 3384645-1

Page 1 of 1

Sample Number 2576889-1
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Measurement Date Oct 28, 2025

Stack Description

Ambient Temperature	31.8 °C	Diameter	2.20 m	Oxygen	7.95 %
Ambient Pressure	759.2 mmHg	Shape	Circle	Carbon dioxide	12.65 %
Type of Process	Combustion	Stack Temperature	165 °C	Gas Velocity	15.30 m/s
Type of Fuel	Biomass	Moisture	19.00 %	Flow Rate	115250 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:40 AM - 11:00 AM	8.02	12.58	152.86	165.02	1.41	1.52
2	11:01 AM - 11:21 AM	8.19	12.43	153.51	167.92	2.30	2.52
3	11:22 AM - 11:42 AM	7.63	12.95	152.69	159.97	2.34	2.46
Average (ppm)		7.95	12.65	153.02	164.30	2.02	2.16
Guideline ^{1/} (ppm)				-	171.40	-	53.49
Guideline ^{2/} (ppm)				-	200	-	60
Guideline ^{3/} (ppm)				-	200	-	60
Result (mg/Nm ³)				287.90	309.12	5.28	5.66
Emission Rate at Actual O ₂ (g/s)				9.2168		0.1691	
Guideline ^{1/} (g/s)				17.71		7.69	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Anuvat Mounpair

Guideline : ^{1/}Environmental Impact Assessment Report of Gulf Chana Green Co., Ltd.
^{2/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.
^{3/}Notification of the Ministry of Industry on determining pollution contents in air emissions from power plants, 2024 (B.E. 2567)

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 Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576889
Date Received : Oct 29, 2025
Date Reported : Nov 10, 2025
Report Number : 3384645-1

Page 1 of 1

Sample Number : 2576889-1
Sample Description : Emission from Stationary Source
Location : S1 โรงงาน Boiler No.PB1511
Measurement Date : Oct 28, 2025

Stack Description

Ambient Temperature	31.8 °C	Diameter	2.20 m	Oxygen	7.95 %
Ambient Pressure	759.2 mmHg	Shape	Circle	Carbon dioxide	12.65 %
Type of Process	Combustion	Stack Temperature	165 °C	Gas Velocity	15.30 m/s
Type of Fuel	Biomass	Moisture	19.00 %	Flow Rate	115250 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:40 AM - 11:00 AM	8.02	12.58	102.73	110.90
2	11:01 AM - 11:21 AM	8.19	12.43	98.36	107.58
3	11:22 AM - 11:42 AM	7.63	12.95	98.01	102.68
Average (ppm)		7.95	12.65	99.70	107.05
Guideline (ppm)				-	690
Result (mg/Nm ³)				114.17	122.60
Emission Rate at Actual O ₂ (g/s)				3.6552	
Method				US EPA Method 10	

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

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-0006

Approved by

Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0003

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576896

Date Received : Oct 29, 2025
Date Reported : Nov 24, 2025
Report Number: 3457034-1

Page 1 of 2

Sample Number 2576896-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Date Analysis Commenced Oct 30, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	759	mmHg	Diameter	2.20	m	Oxygen	8.0	%
Ambient Temperature	31.8	°C	Shape	Circle		Carbon Dioxide	12.6	%
Type of Process	Combustion		Stack Temperature	165	°C	Gas Velocity	15.3	m/s
Type of Fuel	Biomass (Wood)		Moisture	18.65	%	Flow Rate (Actual O2)	115519	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result		Guideline (1)	Guideline (2)	Method	Testing Location
					at 7 %O ₂	at 8.0 % O ₂				
Air Testing										
Total Suspended Particulate	10:40 AM - 11:12 AM	mg/m3	-	0.5	6.6	6.13	85.73	120	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 (Include sampling)	Bangkok

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf Chana Green 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

Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-0011

Approved by

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576896

Date Received : Oct 29, 2025
Date Reported : Nov 24, 2025
Report Number: 3457034-1

Page 2 of 2

Sample Number 2576896-1
Sampled Date Oct 28, 2025
Sample Description Emission from Stationary Source
Location S1 ปล่อง Boiler No.PB1511
Date Analysis Commenced Oct 30, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	759	mmHg	Diameter	2.20	m	Oxygen	8.0	%
Ambient Temperature	31.8	°C	Shape	Circle		Carbon Dioxide	12.6	%
Type of Process	Combustion		Stack Temperature	165	°C	Gas Velocity	15.3	m/s
Type of Fuel	Biomass (Wood)		Moisture	18.65	%	Flow Rate (Actual O2)	115519	Nm3/hr

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

Air Testing

Total Suspended Particulate *	10:40 AM - 11:12 AM	g/s	-	-	0.20	4.71	-	Calculated	Bangkok
-------------------------------	---------------------	-----	---	---	------	------	---	------------	---------

Guideline :

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

Note:

This Analysis test report is reissued to supersede report No.3384650-1, Date Reported : Nov 06, 2025 due to revise analytical information.

Sampling By : Khanetson Khamphet ทะเบียนเลขที่ ว-204-จ-0044

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

Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-0011

Approved by

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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ภาคผนวก ค-4

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 22 of 49

Sample Number 2576855-22
Sampled Date Oct 22, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/10/25 - 23/10/25	mg/m3	-	0.005	0.016	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	22/10/25 - 23/10/25	ug/m3	-	5.0	11.5	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	22/10/25 - 23/10/25	mg/m3	-	0.005	0.018	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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.

Approved by

Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 23 of 49

Sample Number 2576855-23
Sampled Date Oct 23, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/10/25 - 24/10/25	mg/m3	-	0.005	0.012	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	23/10/25 - 24/10/25	ug/m3	-	5.0	7.7	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	23/10/25 - 24/10/25	mg/m3	-	0.005	0.016	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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.

Approved by

Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 24 of 49

Sample Number 2576855-24
Sampled Date Oct 24, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 28.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/10/25 - 25/10/25	mg/m3	-	0.005	0.013	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	24/10/25 - 25/10/25	ug/m3	-	5.0	6.8	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	24/10/25 - 25/10/25	mg/m3	-	0.005	0.015	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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.

Approved by

Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 25 of 49

Sample Number 2576855-25
Sampled Date Oct 25, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/10/25 - 26/10/25	mg/m3	-	0.005	0.013	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	25/10/25 - 26/10/25	ug/m3	-	5.0	8.9	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	25/10/25 - 26/10/25	mg/m3	-	0.005	0.015	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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

Approved by



Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-26
Sampled Date Oct 26, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/10/25 - 27/10/25	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	26/10/25 - 27/10/25	ug/m3	-	5.0	7.7	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	26/10/25 - 27/10/25	mg/m3	-	0.005	0.017	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-27
Sampled Date Oct 27, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/10/25 - 28/10/25	mg/m3	-	0.005	0.019	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	27/10/25 - 28/10/25	ug/m3	-	5.0	13.2	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	27/10/25 - 28/10/25	mg/m3	-	0.005	0.022	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-28
Sampled Date Oct 28, 2025
Sample Description Air Quality
Location A1 มัสยิดนุรุชชาชี (GPS 47N 691356, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/10/25 - 29/10/25	mg/m3	-	0.005	0.023	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	28/10/25 - 29/10/25	ug/m3	-	5.0	17.1	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	28/10/25 - 29/10/25	mg/m3	-	0.005	0.026	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

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Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-29
Sampled Date Oct 22, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/10/25 - 23/10/25	mg/m3	-	0.005	0.012	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	22/10/25 - 23/10/25	ug/m3	-	5.0	6.4	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	22/10/25 - 23/10/25	mg/m3	-	0.005	0.014	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-30
Sampled Date Oct 23, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/10/25 - 24/10/25	mg/m3	-	0.005	0.013	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	23/10/25 - 24/10/25	ug/m3	-	5.0	9.4	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	23/10/25 - 24/10/25	mg/m3	-	0.005	0.016	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-31
Sampled Date Oct 24, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 28.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/10/25 - 25/10/25	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	24/10/25 - 25/10/25	ug/m3	-	5.0	6.4	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	24/10/25 - 25/10/25	mg/m3	-	0.005	0.017	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-32
Sampled Date Oct 25, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/10/25 - 26/10/25	mg/m3	-	0.005	0.016	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	25/10/25 - 26/10/25	ug/m3	-	5.0	7.2	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	25/10/25 - 26/10/25	mg/m3	-	0.005	0.018	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-33
Sampled Date Oct 26, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/10/25 - 27/10/25	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	26/10/25 - 27/10/25	ug/m3	-	5.0	7.3	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	26/10/25 - 27/10/25	mg/m3	-	0.005	0.017	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-34
Sampled Date Oct 27, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/10/25 - 28/10/25	mg/m3	-	0.005	0.020	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	27/10/25 - 28/10/25	ug/m3	-	5.0	17.9	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	27/10/25 - 28/10/25	mg/m3	-	0.005	0.025	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-35
Sampled Date Oct 28, 2025
Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/10/25 - 29/10/25	mg/m3	-	0.005	0.024	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	28/10/25 - 29/10/25	ug/m3	-	5.0	15.8	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	28/10/25 - 29/10/25	mg/m3	-	0.005	0.029	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-36
Sampled Date Oct 22, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหิมะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/10/25 - 23/10/25	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	22/10/25 - 23/10/25	ug/m3	-	5.0	8.9	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	22/10/25 - 23/10/25	mg/m3	-	0.005	0.016	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

Remark :

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

Approved by



Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-37
Sampled Date Oct 23, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหมีะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/10/25 - 24/10/25	mg/m3	-	0.005	0.013	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	23/10/25 - 24/10/25	ug/m3	-	5.0	9.8	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	23/10/25 - 24/10/25	mg/m3	-	0.005	0.016	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Approved by

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-38
Sampled Date Oct 24, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหะหมะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 28.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/10/25 - 25/10/25	mg/m3	-	0.005	0.013	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	24/10/25 - 25/10/25	ug/m3	-	5.0	5.1	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	24/10/25 - 25/10/25	mg/m3	-	0.005	0.015	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-39
Sampled Date Oct 25, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหะหมะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/10/25 - 26/10/25	mg/m3	-	0.005	0.015	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	25/10/25 - 26/10/25	ug/m3	-	5.0	9.4	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	25/10/25 - 26/10/25	mg/m3	-	0.005	0.018	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-40
Sampled Date Oct 26, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหมีะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/10/25 - 27/10/25	mg/m3	-	0.005	0.018	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	26/10/25 - 27/10/25	ug/m3	-	5.0	10.3	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	26/10/25 - 27/10/25	mg/m3	-	0.005	0.020	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-41
Sampled Date Oct 27, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหิมะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/10/25 - 28/10/25	mg/m3	-	0.005	0.018	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	27/10/25 - 28/10/25	ug/m3	-	5.0	8.1	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	27/10/25 - 28/10/25	mg/m3	-	0.005	0.021	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-42
Sampled Date Oct 28, 2025
Sample Description Air Quality
Location A3 มัสยิดเราะหิมะ (GPS 47N 688424, 756574)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/10/25 - 29/10/25	mg/m3	-	0.005	0.027	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	28/10/25 - 29/10/25	ug/m3	-	5.0	9.0	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	28/10/25 - 29/10/25	mg/m3	-	0.005	0.038	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-43
Sampled Date Oct 22, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/10/25 - 23/10/25	mg/m3	-	0.005	0.012	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok
Particulate Matter as PM 2.5 *	22/10/25 - 23/10/25	ug/m3	-	5.0	<5.0	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022	Bangkok
Total Suspended Particulate	22/10/25 - 23/10/25	mg/m3	-	0.005	0.015	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24	Bangkok

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 44 of 49

Sample Number 2576855-44
Sampled Date Oct 23, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/10/25 - 24/10/25	mg/m3	-	0.005	0.015	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	23/10/25 - 24/10/25	ug/m3	-	5.0	10.7	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	23/10/25 - 24/10/25	mg/m3	-	0.005	0.017	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-45
Sampled Date Oct 24, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 28.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/10/25 - 25/10/25	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	24/10/25 - 25/10/25	ug/m3	-	5.0	7.2	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	24/10/25 - 25/10/25	mg/m3	-	0.005	0.016	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Narathorn Keawpongsa

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-46
Sampled Date Oct 25, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารวน (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 29.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/10/25 - 26/10/25	mg/m3	-	0.005	0.015	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	25/10/25 - 26/10/25	ug/m3	-	5.0	6.0	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	25/10/25 - 26/10/25	mg/m3	-	0.005	0.017	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

Remark :

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Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

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Sample Number 2576855-47
Sampled Date Oct 26, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/10/25 - 27/10/25	mg/m3	-	0.005	0.015	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	26/10/25 - 27/10/25	ug/m3	-	5.0	9.0	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	26/10/25 - 27/10/25	mg/m3	-	0.005	0.018	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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.

Approved by



Saranya Chalermtamrong
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.



Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 48 of 49

Sample Number	2576855-48
Sampled Date	Oct 27, 2025
Sample Description	Air Quality
Location	A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced	Nov 04, 2025
Condition of Sample	Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	754 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/10/25 - 28/10/25	mg/m3	-	0.005	0.018	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	27/10/25 - 28/10/25	ug/m3	-	5.0	13.2	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	27/10/25 - 28/10/25	mg/m3	-	0.005	0.023	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

Remark :

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Approved by



Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576855

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number : 3384626-1

Page 49 of 49

Sample Number 2576855-49
Sampled Date Oct 28, 2025
Sample Description Air Quality
Location A4 บ้านม่วงหวารว (GPS 47N 688529, 757589)
Date Analysis Commenced Nov 04, 2025
Condition of Sample Drawn into one filter paper placed in plastic cassette, one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 754 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/10/25 - 29/10/25	mg/m3	-	0.005	0.022	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Particulate Matter as PM 2.5 *	28/10/25 - 29/10/25	ug/m3	-	5.0	<5.0	37.5	U.S. Environmental Protection Agency 40 CFR Part 50	NEB 2022 Bangkok	
Total Suspended Particulate	28/10/25 - 29/10/25	mg/m3	-	0.005	0.028	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB 2022 : Notification of the National Environmental Board., 2022 (B.E.2565)
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Narathorn Keawpongsa

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.

Approved by

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576863

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444731-1

Page 1 of 1

Sample Description Air Quality
Location A1 มัสยิดนุรุษซาฮ์ (GPS 47N 691356; 757589)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576863-22	2576863-23	2576863-24	2576863-25	2576863-26	2576863-27	2576863-28
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
02:00 PM - 03:00 PM	0.0128	0.0118	0.0120	0.0119	0.0119	0.0119	0.0122
03:00 PM - 04:00 PM	0.0126	0.0118	0.0113	0.0120	0.0119	0.0117	0.0121
04:00 PM - 05:00 PM	0.0123	0.0118	0.0118	0.0121	0.0119	0.0119	0.0119
05:00 PM - 06:00 PM	0.0121	0.0119	0.0116	0.0121	0.0118	0.0119	0.0119
06:00 PM - 07:00 PM	0.0122	0.0118	0.0116	0.0121	0.0120	0.0113	0.0119
07:00 PM - 08:00 PM	0.0120	0.0118	0.0115	0.0118	0.0120	0.0111	0.0118
08:00 PM - 09:00 PM	0.0122	0.0117	0.0116	0.0117	0.0120	0.0120	0.0119
09:00 PM - 10:00 PM	0.0121	0.0117	0.0115	0.0117	0.0119	0.0115	0.0119
10:00 PM - 11:00 PM	0.0119	0.0117	0.0115	0.0118	0.0119	0.0110	0.0119
11:00 PM - 12:00 AM	0.0120	0.0120	0.0115	0.0119	0.0119	0.0111	0.0120
12:00 AM - 01:00 AM	0.0121	0.0121	0.0117	0.0120	0.0120	0.0109	0.0120
01:00 AM - 02:00 AM	0.0119	0.0121	0.0115	0.0118	0.0119	0.0113	0.0120
02:00 AM - 03:00 AM	0.0119	0.0121	0.0116	0.0119	0.0120	0.0112	0.0120
03:00 AM - 04:00 AM	0.0120	0.0120	0.0120	0.0118	0.0118	0.0123	0.0120
04:00 AM - 05:00 AM	0.0122	0.0120	0.0121	0.0119	0.0120	0.0120	0.0120
05:00 AM - 06:00 AM	0.0120	0.0119	0.0120	0.0120	0.0120	0.0118	0.0120
06:00 AM - 07:00 AM	0.0119	0.0120	0.0121	0.0119	0.0120	0.0118	0.0122
07:00 AM - 08:00 AM	0.0120	0.0120	0.0119	0.0119	0.0119	0.0119	0.0120
08:00 AM - 09:00 AM	0.0120	0.0120	0.0119	0.0119	0.0120	0.0121	0.0121
09:00 AM - 10:00 AM	0.0120	0.0119	0.0119	0.0120	0.0120	0.0120	0.0120
10:00 AM - 11:00 AM	0.0119	0.0119	0.0119	0.0118	0.0119	0.0121	0.0119
11:00 AM - 12:00 PM	0.0119	0.0120	0.0115	0.0117	0.0120	0.0122	0.0111
12:00 PM - 01:00 PM	0.0119	0.0120	0.0117	0.0118	0.0120	0.0121	0.0112
01:00 PM - 02:00 PM	0.0119	0.0120	0.0119	0.0118	0.0121	0.0122	0.0114
Average	0.0121	0.0119	0.0117	0.0119	0.0120	0.0117	0.0119
1hr - Maximum	0.0128	0.0121	0.0121	0.0121	0.0121	0.0123	0.0122
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 Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576863

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444732-1

Page 1 of 1

Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813; 757917)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576863-29	2576863-30	2576863-31	2576863-32	2576863-33	2576863-34	2576863-35
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
03:00 PM - 04:00 PM	0.0005	0.0002	0.0002	0.0006	0.0002	0.0002	0.0003
04:00 PM - 05:00 PM	0.0005	0.0002	0.0003	0.0004	0.0003	0.0002	0.0003
05:00 PM - 06:00 PM	0.0005	0.0003	0.0003	0.0005	0.0003	0.0002	0.0003
06:00 PM - 07:00 PM	0.0004	0.0002	0.0003	0.0005	0.0004	0.0002	0.0003
07:00 PM - 08:00 PM	0.0004	0.0003	0.0003	0.0005	0.0004	0.0003	0.0003
08:00 PM - 09:00 PM	0.0004	0.0003	0.0004	0.0004	0.0004	0.0003	0.0003
09:00 PM - 10:00 PM	0.0004	0.0003	0.0004	0.0003	0.0004	0.0003	0.0003
10:00 PM - 11:00 PM	0.0004	0.0003	0.0004	0.0003	0.0004	0.0003	0.0003
11:00 PM - 12:00 AM	0.0004	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003
12:00 AM - 01:00 AM	0.0004	0.0003	0.0004	0.0003	0.0003	0.0003	0.0002
01:00 AM - 02:00 AM	0.0004	0.0003	0.0004	0.0003	0.0004	0.0003	0.0002
02:00 AM - 03:00 AM	0.0004	0.0003	0.0004	0.0003	0.0004	0.0003	0.0003
03:00 AM - 04:00 AM	0.0004	0.0003	0.0004	0.0002	0.0004	0.0003	0.0004
04:00 AM - 05:00 AM	0.0004	0.0003	0.0003	0.0002	0.0004	0.0003	0.0002
05:00 AM - 06:00 AM	0.0004	0.0003	0.0004	0.0002	0.0004	0.0003	0.0003
06:00 AM - 07:00 AM	0.0005	0.0003	0.0005	0.0003	0.0004	0.0003	0.0003
07:00 AM - 08:00 AM	0.0004	0.0003	0.0006	0.0002	0.0004	0.0003	0.0002
08:00 AM - 09:00 AM	0.0004	0.0002	0.0005	0.0002	0.0003	0.0004	0.0002
09:00 AM - 10:00 AM	0.0005	0.0002	0.0005	0.0003	0.0002	0.0004	0.0002
10:00 AM - 11:00 AM	0.0005	0.0003	0.0005	0.0003	0.0003	0.0004	0.0002
11:00 AM - 12:00 PM	0.0005	0.0003	0.0005	0.0003	0.0003	0.0003	0.0002
12:00 PM - 01:00 PM	0.0005	0.0003	0.0005	0.0002	0.0003	0.0004	0.0003
01:00 PM - 02:00 PM	0.0002	0.0002	0.0006	0.0002	0.0002	0.0003	0.0003
02:00 PM - 03:00 PM	0.0002	0.0002	0.0006	0.0003	0.0003	0.0003	0.0002
Average	0.0004	0.0003	0.0004	0.0003	0.0003	0.0003	0.0003
1hr - Maximum	0.0005	0.0003	0.0006	0.0006	0.0004	0.0004	0.0004
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 Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576863

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444733-1

Page 1 of 1

Sample Description Air Quality
Location A3 มัสยิดเราะหะมะ (GPS 47N 688424; 756574)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576863-36	2576863-37	2576863-38	2576863-39	2576863-40	2576863-41	2576863-42
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
12:00 PM - 01:00 PM	0.0008	0.0004	0.0004	0.0005	0.0005	0.0007	0.0001
01:00 PM - 02:00 PM	0.0001	0.0004	0.0004	0.0005	0.0005	0.0007	0.0007
02:00 PM - 03:00 PM	0.0003	0.0004	0.0004	0.0005	0.0005	0.0007	0.0007
03:00 PM - 04:00 PM	0.0004	0.0003	0.0004	0.0005	0.0005	0.0002	0.0007
04:00 PM - 05:00 PM	0.0003	0.0003	0.0005	0.0005	0.0005	0.0007	0.0006
05:00 PM - 06:00 PM	0.0002	0.0003	0.0005	0.0004	0.0005	0.0006	0.0006
06:00 PM - 07:00 PM	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005	0.0006
07:00 PM - 08:00 PM	0.0001	0.0006	0.0004	0.0003	0.0005	0.0005	0.0006
08:00 PM - 09:00 PM	0.0001	0.0004	0.0003	0.0003	0.0004	0.0005	0.0006
09:00 PM - 10:00 PM	0.0002	0.0003	0.0004	0.0003	0.0004	0.0005	0.0005
10:00 PM - 11:00 PM	0.0002	0.0003	0.0004	0.0004	0.0004	0.0005	0.0005
11:00 PM - 12:00 AM	0.0001	0.0003	0.0005	0.0003	0.0005	0.0005	0.0005
12:00 AM - 01:00 AM	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005	0.0005
01:00 AM - 02:00 AM	0.0002	0.0003	0.0004	0.0004	0.0004	0.0005	0.0005
02:00 AM - 03:00 AM	0.0002	0.0003	0.0004	0.0004	0.0005	0.0004	0.0005
03:00 AM - 04:00 AM	0.0002	0.0002	0.0004	0.0003	0.0004	0.0005	0.0005
04:00 AM - 05:00 AM	0.0002	0.0003	0.0004	0.0004	0.0004	0.0004	0.0005
05:00 AM - 06:00 AM	0.0002	0.0003	0.0004	0.0004	0.0004	0.0005	0.0005
06:00 AM - 07:00 AM	0.0001	0.0002	0.0004	0.0004	0.0004	0.0005	0.0005
07:00 AM - 08:00 AM	0.0001	0.0003	0.0004	0.0004	0.0004	0.0005	0.0005
08:00 AM - 09:00 AM	0.0002	0.0004	0.0004	0.0005	0.0004	0.0005	0.0005
09:00 AM - 10:00 AM	0.0002	0.0003	0.0005	0.0005	0.0005	0.0006	0.0006
10:00 AM - 11:00 AM	0.0002	0.0005	0.0005	0.0005	0.0005	0.0004	0.0005
11:00 AM - 12:00 PM	0.0003	0.0004	0.0005	0.0005	0.0006	0.0006	0.0005
Average	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005	0.0005
1hr - Maximum	0.0008	0.0006	0.0005	0.0005	0.0006	0.0007	0.0007
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 Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576863

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444735-1

Page 1 of 1

Sample Description Air Quality
Location A4 บ้านหนองหวด (GPS 47N 688529; 757589)
Parameter Sulfur Dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576863-43	2576863-44	2576863-45	2576863-46	2576863-47	2576863-48	2576863-49
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
01:00 PM - 02:00 PM	0.0053	0.0039	0.0034	0.0033	0.0035	0.0030	0.0031
02:00 PM - 03:00 PM	0.0052	0.0038	0.0032	0.0033	0.0034	0.0019	0.0031
03:00 PM - 04:00 PM	0.0049	0.0037	0.0032	0.0032	0.0034	0.0030	0.0028
04:00 PM - 05:00 PM	0.0049	0.0037	0.0032	0.0031	0.0032	0.0029	0.0027
05:00 PM - 06:00 PM	0.0046	0.0036	0.0030	0.0031	0.0027	0.0026	0.0026
06:00 PM - 07:00 PM	0.0043	0.0034	0.0030	0.0030	0.0027	0.0025	0.0024
07:00 PM - 08:00 PM	0.0043	0.0035	0.0029	0.0030	0.0026	0.0025	0.0024
08:00 PM - 09:00 PM	0.0042	0.0035	0.0030	0.0030	0.0026	0.0025	0.0024
09:00 PM - 10:00 PM	0.0041	0.0034	0.0030	0.0030	0.0026	0.0025	0.0024
10:00 PM - 11:00 PM	0.0041	0.0034	0.0028	0.0030	0.0026	0.0025	0.0024
11:00 PM - 12:00 AM	0.0040	0.0033	0.0028	0.0030	0.0027	0.0025	0.0024
12:00 AM - 01:00 AM	0.0040	0.0033	0.0028	0.0030	0.0027	0.0025	0.0024
01:00 AM - 02:00 AM	0.0040	0.0033	0.0027	0.0029	0.0026	0.0025	0.0024
02:00 AM - 03:00 AM	0.0040	0.0033	0.0028	0.0029	0.0026	0.0025	0.0023
03:00 AM - 04:00 AM	0.0039	0.0032	0.0028	0.0028	0.0026	0.0025	0.0024
04:00 AM - 05:00 AM	0.0039	0.0032	0.0028	0.0028	0.0026	0.0024	0.0023
05:00 AM - 06:00 AM	0.0039	0.0032	0.0027	0.0027	0.0026	0.0024	0.0023
06:00 AM - 07:00 AM	0.0039	0.0033	0.0028	0.0028	0.0026	0.0024	0.0023
07:00 AM - 08:00 AM	0.0040	0.0033	0.0028	0.0027	0.0025	0.0025	0.0024
08:00 AM - 09:00 AM	0.0039	0.0033	0.0028	0.0030	0.0027	0.0026	0.0025
09:00 AM - 10:00 AM	0.0042	0.0034	0.0029	0.0032	0.0028	0.0026	0.0024
10:00 AM - 11:00 AM	0.0037	0.0035	0.0029	0.0033	0.0029	0.0016	0.0025
11:00 AM - 12:00 PM	0.0041	0.0035	0.0032	0.0036	0.0031	0.0031	0.0021
12:00 PM - 01:00 PM	0.0039	0.0036	0.0033	0.0037	0.0029	0.0032	0.0023
Average	0.0042	0.0034	0.0030	0.0031	0.0028	0.0026	0.0025
1hr - Maximum	0.0053	0.0039	0.0034	0.0037	0.0035	0.0032	0.0031
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 Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576848

Date Received : Nov 01, 2025

Date Reported : Nov 06, 2025

Report Number: 3444738-1

Page 1 of 1

Sample Description Air Quality
Location A1 มัสยิดนุรุษซาฮ์ (GPS 47N 691356, 757589)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576848-22	2576848-23	2576848-24	2576848-25	2576848-26	2576848-27	2576848-28
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
02:00 PM - 03:00 PM	0.0039	0.0035	0.0035	0.0034	0.0034	0.0057	0.0032
03:00 PM - 04:00 PM	0.0037	0.0043	0.0032	0.0038	0.0027	0.0036	0.0035
04:00 PM - 05:00 PM	0.0047	0.0058	0.0027	0.0046	0.0041	0.0052	0.0030
05:00 PM - 06:00 PM	0.0048	0.0037	0.0028	0.0051	0.0033	0.0045	0.0031
06:00 PM - 07:00 PM	0.0049	0.0043	0.0034	0.0041	0.0037	0.0045	0.0034
07:00 PM - 08:00 PM	0.0042	0.0040	0.0041	0.0041	0.0034	0.0044	0.0030
08:00 PM - 09:00 PM	0.0042	0.0051	0.0026	0.0028	0.0033	0.0029	0.0036
09:00 PM - 10:00 PM	0.0057	0.0063	0.0029	0.0032	0.0045	0.0029	0.0028
10:00 PM - 11:00 PM	0.0037	0.0034	0.0035	0.0029	0.0030	0.0026	0.0031
11:00 PM - 12:00 AM	0.0034	0.0030	0.0029	0.0030	0.0027	0.0028	0.0027
12:00 AM - 01:00 AM	0.0043	0.0028	0.0026	0.0036	0.0030	0.0029	0.0027
01:00 AM - 02:00 AM	0.0044	0.0028	0.0025	0.0039	0.0035	0.0037	0.0028
02:00 AM - 03:00 AM	0.0044	0.0026	0.0025	0.0028	0.0028	0.0030	0.0027
03:00 AM - 04:00 AM	0.0037	0.0027	0.0026	0.0028	0.0029	0.0030	0.0029
04:00 AM - 05:00 AM	0.0030	0.0026	0.0026	0.0028	0.0028	0.0030	0.0030
05:00 AM - 06:00 AM	0.0030	0.0027	0.0025	0.0028	0.0028	0.0030	0.0031
06:00 AM - 07:00 AM	0.0029	0.0031	0.0025	0.0029	0.0030	0.0031	0.0031
07:00 AM - 08:00 AM	0.0030	0.0029	0.0028	0.0033	0.0045	0.0033	0.0039
08:00 AM - 09:00 AM	0.0033	0.0041	0.0036	0.0047	0.0052	0.0040	0.0034
09:00 AM - 10:00 AM	0.0048	0.0032	0.0030	0.0027	0.0032	0.0026	0.0051
10:00 AM - 11:00 AM	0.0044	0.0035	0.0036	0.0027	0.0050	0.0030	0.0045
11:00 AM - 12:00 PM	0.0051	0.0040	0.0043	0.0037	0.0040	0.0048	0.0032
12:00 PM - 01:00 PM	0.0043	0.0031	0.0041	0.0026	0.0037	0.0032	0.0034
01:00 PM - 02:00 PM	0.0034	0.0030	0.0038	0.0030	0.0031	0.0028	0.0034
Average	0.0040	0.0036	0.0031	0.0034	0.0035	0.0035	0.0033
1hr - Maximum	0.0057	0.0063	0.0043	0.0051	0.0052	0.0057	0.0051
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)

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576848

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444739-1

Page 1 of 1

Sample Description Air Quality
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689813, 757917)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576848-29	2576848-30	2576848-31	2576848-32	2576848-33	2576848-34	2576848-35
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
03:00 PM - 04:00 PM	0.0005	0.0010	0.0010	0.0010	0.0005	0.0007	0.0010
04:00 PM - 05:00 PM	0.0009	0.0008	0.0010	0.0010	0.0004	0.0007	0.0017
05:00 PM - 06:00 PM	0.0010	0.0007	0.0011	0.0013	0.0007	0.0006	0.0025
06:00 PM - 07:00 PM	0.0013	0.0006	0.0012	0.0012	0.0006	0.0008	0.0008
07:00 PM - 08:00 PM	0.0013	0.0008	0.0010	0.0011	0.0007	0.0010	0.0009
08:00 PM - 09:00 PM	0.0010	0.0007	0.0012	0.0017	0.0008	0.0013	0.0011
09:00 PM - 10:00 PM	0.0009	0.0008	0.0010	0.0039	0.0013	0.0012	0.0011
10:00 PM - 11:00 PM	0.0012	0.0007	0.0009	0.0008	0.0016	0.0004	0.0004
11:00 PM - 12:00 AM	0.0017	0.0011	0.0015	0.0013	0.0015	0.0007	0.0043
12:00 AM - 01:00 AM	0.0019	0.0008	0.0009	0.0008	0.0024	0.0016	0.0016
01:00 AM - 02:00 AM	0.0032	0.0007	0.0007	0.0012	0.0010	0.0015	0.0010
02:00 AM - 03:00 AM	0.0024	0.0010	0.0007	0.0008	0.0009	0.0011	0.0014
03:00 AM - 04:00 AM	0.0039	0.0009	0.0010	0.0011	0.0008	0.0016	0.0007
04:00 AM - 05:00 AM	0.0049	0.0011	0.0011	0.0009	0.0007	0.0015	0.0026
05:00 AM - 06:00 AM	0.0022	0.0013	0.0012	0.0013	0.0010	0.0013	0.0012
06:00 AM - 07:00 AM	0.0016	0.0013	0.0012	0.0012	0.0012	0.0016	0.0006
07:00 AM - 08:00 AM	0.0019	0.0016	0.0010	0.0025	0.0028	0.0008	0.0006
08:00 AM - 09:00 AM	0.0017	0.0016	0.0013	0.0018	0.0022	0.0006	0.0005
09:00 AM - 10:00 AM	0.0018	0.0015	0.0011	0.0011	0.0016	0.0003	0.0018
10:00 AM - 11:00 AM	0.0031	0.0021	0.0012	0.0019	0.0023	0.0006	0.0007
11:00 AM - 12:00 PM	0.0008	0.0058	0.0026	0.0027	0.0047	0.0009	0.0015
12:00 PM - 01:00 PM	0.0061	0.0018	0.0019	0.0017	0.0078	0.0008	0.0025
01:00 PM - 02:00 PM	0.0026	0.0027	0.0029	0.0017	0.0040	0.0008	0.0013
02:00 PM - 03:00 PM	0.0020	0.0019	0.0024	0.0010	0.0041	0.0010	0.0007
Average	0.0021	0.0014	0.0013	0.0015	0.0019	0.0010	0.0014
1hr - Maximum	0.0061	0.0058	0.0029	0.0039	0.0078	0.0016	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

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Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576848

Date Received : Nov 01, 2025

Date Reported : Nov 06, 2025

Report Number: 3444740-1

Page 1 of 1

Sample Description Air Quality
Location A3 มัสยิดเราะหะมะ (GPS 47N 688424, 756574)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576848-36	2576848-37	2576848-38	2576848-39	2576848-40	2576848-41	2576848-42
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
12:00 PM - 01:00 PM	0.0010	0.0010	0.0005	0.0007	0.0010	0.0012	0.0006
01:00 PM - 02:00 PM	0.0010	0.0010	0.0004	0.0007	0.0017	0.0005	0.0008
02:00 PM - 03:00 PM	0.0011	0.0013	0.0007	0.0006	0.0025	0.0004	0.0004
03:00 PM - 04:00 PM	0.0012	0.0012	0.0006	0.0008	0.0008	0.0006	0.0014
04:00 PM - 05:00 PM	0.0010	0.0011	0.0007	0.0010	0.0009	0.0023	0.0019
05:00 PM - 06:00 PM	0.0012	0.0017	0.0008	0.0013	0.0011	0.0010	0.0013
06:00 PM - 07:00 PM	0.0010	0.0039	0.0013	0.0012	0.0011	0.0005	0.0003
07:00 PM - 08:00 PM	0.0009	0.0008	0.0016	0.0004	0.0004	0.0004	0.0014
08:00 PM - 09:00 PM	0.0015	0.0013	0.0015	0.0007	0.0043	0.0006	0.0009
09:00 PM - 10:00 PM	0.0009	0.0008	0.0024	0.0016	0.0016	0.0003	0.0010
10:00 PM - 11:00 PM	0.0007	0.0012	0.0010	0.0015	0.0010	0.0035	0.0013
11:00 PM - 12:00 AM	0.0007	0.0008	0.0009	0.0011	0.0014	0.0014	0.0013
12:00 AM - 01:00 AM	0.0010	0.0011	0.0008	0.0016	0.0007	0.0031	0.0018
01:00 AM - 02:00 AM	0.0011	0.0009	0.0007	0.0015	0.0026	0.0029	0.0008
02:00 AM - 03:00 AM	0.0012	0.0013	0.0010	0.0013	0.0012	0.0031	0.0005
03:00 AM - 04:00 AM	0.0012	0.0012	0.0012	0.0016	0.0006	0.0007	0.0006
04:00 AM - 05:00 AM	0.0010	0.0025	0.0024	0.0008	0.0006	0.0017	0.0005
05:00 AM - 06:00 AM	0.0013	0.0018	0.0022	0.0006	0.0005	0.0007	0.0004
06:00 AM - 07:00 AM	0.0011	0.0011	0.0016	0.0003	0.0018	0.0014	0.0005
07:00 AM - 08:00 AM	0.0012	0.0019	0.0023	0.0006	0.0007	0.0001	0.0005
08:00 AM - 09:00 AM	0.0026	0.0027	0.0047	0.0009	0.0015	0.0009	0.0007
09:00 AM - 10:00 AM	0.0019	0.0017	0.0078	0.0008	0.0025	0.0016	0.0010
10:00 AM - 11:00 AM	0.0029	0.0017	0.0040	0.0008	0.0013	0.0004	0.0008
11:00 AM - 12:00 PM	0.0024	0.0010	0.0041	0.0010	0.0013	0.0003	0.0009
Average	0.0013	0.0015	0.0019	0.0010	0.0014	0.0012	0.0009
1hr - Maximum	0.0029	0.0039	0.0078	0.0016	0.0043	0.0035	0.0019
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

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576848

Date Received : Nov 01, 2025
Date Reported : Nov 06, 2025
Report Number: 3444741-1

Page 1 of 1

Sample Description Air Quality
Location A4 บ้านหนองหวด (GPS 47N 688529, 757589)
Parameter Nitrogen dioxide (ppm)
Measurement Date Oct 22, 2025 - Oct 29, 2025
Measurement by Narathorn Keawpongsa

	2576848-43	2576848-44	2576848-45	2576848-46	2576848-47	2576848-48	2576848-49
Time	Oct 22, 2025	Oct 23, 2025	Oct 24, 2025	Oct 25, 2025	Oct 26, 2025	Oct 27, 2025	Oct 28, 2025
01:00 PM - 02:00 PM	0.0009	0.0008	0.0009	0.0008	0.0009	0.0010	0.0007
02:00 PM - 03:00 PM	0.0013	0.0010	0.0009	0.0009	0.0007	0.0013	0.0008
03:00 PM - 04:00 PM	0.0013	0.0013	0.0016	0.0016	0.0011	0.0009	0.0014
04:00 PM - 05:00 PM	0.0015	0.0017	0.0011	0.0011	0.0012	0.0014	0.0013
05:00 PM - 06:00 PM	0.0017	0.0016	0.0012	0.0010	0.0009	0.0014	0.0015
06:00 PM - 07:00 PM	0.0015	0.0009	0.0015	0.0009	0.0006	0.0015	0.0004
07:00 PM - 08:00 PM	0.0006	0.0009	0.0009	0.0012	0.0009	0.0010	0.0009
08:00 PM - 09:00 PM	0.0008	0.0008	0.0010	0.0014	0.0009	0.0008	0.0010
09:00 PM - 10:00 PM	0.0013	0.0009	0.0010	0.0021	0.0013	0.0011	0.0012
10:00 PM - 11:00 PM	0.0019	0.0011	0.0010	0.0046	0.0013	0.0014	0.0013
11:00 PM - 12:00 AM	0.0012	0.0011	0.0010	0.0036	0.0011	0.0013	0.0024
12:00 AM - 01:00 AM	0.0010	0.0009	0.0008	0.0008	0.0009	0.0009	0.0012
01:00 AM - 02:00 AM	0.0011	0.0008	0.0009	0.0009	0.0008	0.0009	0.0008
02:00 AM - 03:00 AM	0.0008	0.0011	0.0009	0.0008	0.0011	0.0009	0.0008
03:00 AM - 04:00 AM	0.0010	0.0015	0.0010	0.0013	0.0011	0.0012	0.0013
04:00 AM - 05:00 AM	0.0014	0.0016	0.0012	0.0012	0.0015	0.0014	0.0012
05:00 AM - 06:00 AM	0.0014	0.0016	0.0010	0.0012	0.0015	0.0015	0.0019
06:00 AM - 07:00 AM	0.0013	0.0012	0.0010	0.0009	0.0012	0.0019	0.0014
07:00 AM - 08:00 AM	0.0008	0.0011	0.0008	0.0013	0.0009	0.0015	0.0019
08:00 AM - 09:00 AM	0.0008	0.0010	0.0010	0.0022	0.0018	0.0013	0.0012
09:00 AM - 10:00 AM	0.0010	0.0011	0.0014	0.0014	0.0010	0.0013	0.0012
10:00 AM - 11:00 AM	0.0012	0.0013	0.0019	0.0013	0.0018	0.0023	0.0014
11:00 AM - 12:00 PM	0.0011	0.0010	0.0011	0.0011	0.0009	0.0016	0.0013
12:00 PM - 01:00 PM	0.0011	0.0007	0.0007	0.0007	0.0007	0.0008	0.0010
Average	0.0012	0.0011	0.0011	0.0014	0.0011	0.0013	0.0012
1hr - Maximum	0.0019	0.0017	0.0019	0.0046	0.0018	0.0023	0.0024
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

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130

Lot ID: 2576870
Date Received :Nov 01, 2025
Date Reported :Nov 07, 2025
Report Number :3384633-1

P/O : 4230124013

Project Name :

Project Location : GCG

Page 1 of 2

Sample Number 2576870-29 to 35
Parameter Wind Speed / Wind Direction
Location A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 0689813, 0757917)
Sampling Date Oct 22 - Oct 29, 2025
Sampling by Narathorn Keawpongsa

Time	Oct 22 - Oct 23, 2025			Oct 23 - Oct 24, 2025			Oct 24 - Oct 25, 2025			Oct 25 - Oct 26, 2025			Oct 26 - Oct 27, 2025			Oct 27 - Oct 28, 2025			Oct 28 - Oct 29, 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)	
03:00 PM - 04:00 PM	0.2	-	-	0.0	-	-	0.3	194.0	SSW	0.0	-	-	0.6	26.0	NNE	1.9	325.0	NW	0.3	260.0	W
04:00 PM - 05:00 PM	0.0	-	-	1.0	58.0	ENE	0.0	-	-	0.5	144.0	SE	0.0	-	-	1.0	118.0	ESE	0.0	-	-
05:00 PM - 06:00 PM	0.2	-	-	0.6	45.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	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	0.0	-	-	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	-	-	0.0	-	-	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	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	0.1	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.3	205.0	SSW	0.0	-	-	0.3	251.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-
09:00 AM - 10:00 AM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 AM - 11:00 AM	0.5	225.0	SW	0.0	-	-	0.5	229.0	SW	0.0	-	-	0.0	-	-	0.3	291.0	WNW	1.2	166.0	SSE
11:00 AM - 12:00 PM	0.0	-	-	0.7	342.0	NNW	0.7	296.0	WNW	0.0	-	-	1.1	355.0	N	0.6	263.0	W	0.3	272.0	W
12:00 PM - 01:00 PM	0.6	73.0	ENE	0.0	-	-	0.0	-	-	1.3	123.0	ESE	0.0	-	-	2.7	316.0	NW	1.0	203.0	SSW
01:00 PM - 02:00 PM	2.0	354.0	N	1.6	337.0	NNW	1.2	196.0	SSW	4.0	329.0	NNW	1.9	351.0	N	0.0	-	-	1.2	233.0	SW
02:00 PM - 03:00 PM	0.7	354.0	N	0.0	-	-	0.0	-	-	0.7	274.0	W	1.3	307.0	NW	0.0	-	-	1.1	125.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130

P/O : 4230124013

Project Name :

Project Location : GCG

Lot ID: 2576870

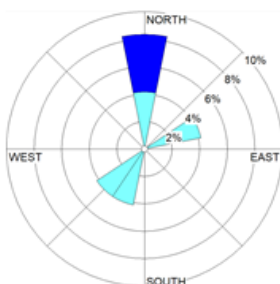
Date Received : Nov 01, 2025

Date Reported : Nov 07, 2025

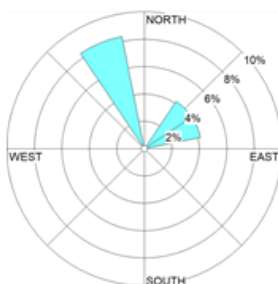
Report Number : 3384633-1

Page 2 of 2

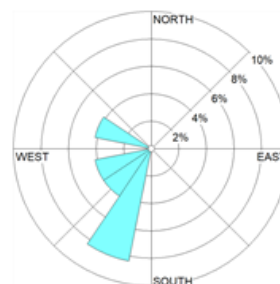
Wind Rose



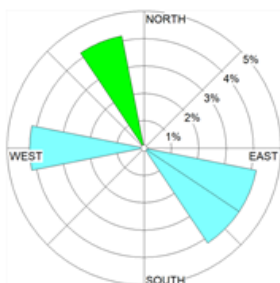
Date : Oct 22-23, 2025



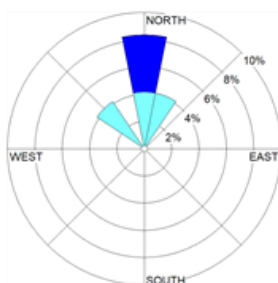
Date : Oct 23-24, 2025



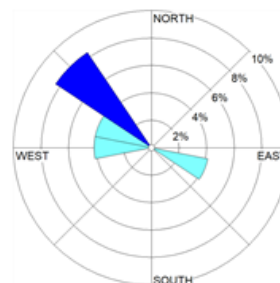
Date : Oct 24-25, 2025



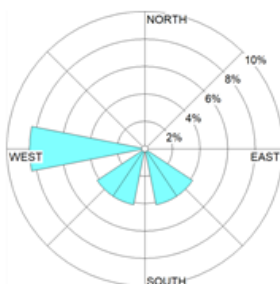
Date : Oct 25-26, 2025



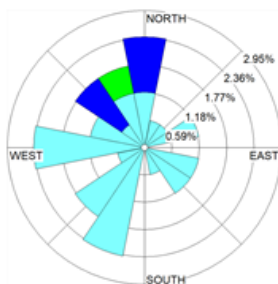
Date : Oct 26-27, 2025



Date : Oct 27-28, 2025



Date : Oct 28-29, 2025



Date : Oct 22-29, 2025

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	2.38
0.3-1.7	16.67
Calms	80.36

Location : A2 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 0689813, 0757917)

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

Approved by



Sarayuth Jittrantont
Assistant General Manager

ภาคผนวก ค-5

ระดับเสียงโดยทั่วไป



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446509-1

Page 1 of 1

Sample Number 2576872-1
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.1	75.4	57.1
10:00 AM - 11:00 AM	57.9	69.5	56.9
11:00 AM - 12:00 PM	58.1	68.7	56.9
12:00 PM - 01:00 PM	57.8	69.3	56.8
01:00 PM - 02:00 PM	58.2	71.4	56.9
02:00 PM - 03:00 PM	57.9	72.1	56.9
03:00 PM - 04:00 PM	57.8	68.6	56.8
04:00 PM - 05:00 PM	57.7	68.4	56.7
05:00 PM - 06:00 PM	60.5	69.4	59.6
06:00 PM - 07:00 PM	60.3	75.0	59.2
07:00 PM - 08:00 PM	58.6	68.1	57.5
08:00 PM - 09:00 PM	57.9	68.0	56.9
09:00 PM - 10:00 PM	58.1	68.4	57.0
10:00 PM - 11:00 PM	58.5	68.2	57.4
11:00 PM - 12:00 AM	58.5	78.4	57.3
12:00 AM - 01:00 AM	58.4	68.3	57.5
01:00 AM - 02:00 AM	58.4	73.6	57.6
02:00 AM - 03:00 AM	58.3	71.2	57.5
03:00 AM - 04:00 AM	58.7	69.0	57.6
04:00 AM - 05:00 AM	58.8	70.1	57.9
05:00 AM - 06:00 AM	59.5	69.9	58.6
06:00 AM - 07:00 AM	59.1	70.2	58.0
07:00 AM - 08:00 AM	58.1	74.3	57.0
08:00 AM - 09:00 AM	59.0	69.1	58.0

Leq Average 24 hrs. (dB(A)) 58.6
Lmax (dB(A)) 78.4
L90 (dB(A)) 57.3
Ldn (dB(A)) 65.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446510-1

Page 1 of 1

Sample Number 2576872-2
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.0	68.1	57.9
10:00 AM - 11:00 AM	61.7	67.8	60.8
11:00 AM - 12:00 PM	58.8	67.0	57.0
12:00 PM - 01:00 PM	58.1	66.4	56.7
01:00 PM - 02:00 PM	58.4	67.1	57.3
02:00 PM - 03:00 PM	58.5	67.6	57.5
03:00 PM - 04:00 PM	58.3	67.4	57.1
04:00 PM - 05:00 PM	58.0	66.9	56.8
05:00 PM - 06:00 PM	62.6	70.9	61.5
06:00 PM - 07:00 PM	61.0	71.5	60.3
07:00 PM - 08:00 PM	58.7	71.3	57.6
08:00 PM - 09:00 PM	58.7	68.3	57.7
09:00 PM - 10:00 PM	58.3	74.7	57.4
10:00 PM - 11:00 PM	58.9	76.5	57.9
11:00 PM - 12:00 AM	58.5	68.4	57.6
12:00 AM - 01:00 AM	59.0	69.2	58.0
01:00 AM - 02:00 AM	59.0	69.5	58.1
02:00 AM - 03:00 AM	58.8	68.5	58.1
03:00 AM - 04:00 AM	58.8	70.7	58.1
04:00 AM - 05:00 AM	58.9	68.4	58.1
05:00 AM - 06:00 AM	59.9	71.3	59.2
06:00 AM - 07:00 AM	59.8	69.7	59.0
07:00 AM - 08:00 AM	59.0	72.4	58.1
08:00 AM - 09:00 AM	59.3	68.4	58.3

Leq Average 24 hrs. (dB(A)) 59.3
Lmax (dB(A)) 76.5
L90 (dB(A)) 57.9
Ldn (dB(A)) 65.6

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446511-1

Page 1 of 1

Sample Number 2576872-3
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.6	70.2	57.7
10:00 AM - 11:00 AM	58.5	77.2	56.9
11:00 AM - 12:00 PM	57.4	65.7	56.3
12:00 PM - 01:00 PM	57.9	76.0	56.5
01:00 PM - 02:00 PM	58.7	70.3	57.6
02:00 PM - 03:00 PM	57.7	67.3	56.7
03:00 PM - 04:00 PM	60.5	68.5	58.2
04:00 PM - 05:00 PM	63.9	75.2	61.1
05:00 PM - 06:00 PM	63.2	71.9	62.5
06:00 PM - 07:00 PM	62.1	73.5	61.2
07:00 PM - 08:00 PM	59.1	70.4	58.3
08:00 PM - 09:00 PM	60.3	68.4	59.6
09:00 PM - 10:00 PM	61.2	68.6	60.6
10:00 PM - 11:00 PM	59.9	73.4	59.1
11:00 PM - 12:00 AM	58.7	68.3	57.9
12:00 AM - 01:00 AM	58.9	68.3	58.1
01:00 AM - 02:00 AM	58.6	72.0	57.8
02:00 AM - 03:00 AM	59.2	72.1	58.4
03:00 AM - 04:00 AM	58.8	70.3	57.9
04:00 AM - 05:00 AM	58.7	68.5	57.9
05:00 AM - 06:00 AM	60.1	71.9	59.3
06:00 AM - 07:00 AM	59.9	69.6	59.0
07:00 AM - 08:00 AM	59.1	76.9	58.0
08:00 AM - 09:00 AM	59.0	73.3	58.0

Leq Average 24 hrs. (dB(A)) 59.9
Lmax (dB(A)) 77.2
L90 (dB(A)) 58.0
Ldn (dB(A)) 65.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446512-1

Page 1 of 1

Sample Number 2576872-4
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.1	68.7	58.1
10:00 AM - 11:00 AM	59.0	69.4	57.9
11:00 AM - 12:00 PM	58.4	75.2	57.3
12:00 PM - 01:00 PM	58.3	75.7	57.0
01:00 PM - 02:00 PM	58.7	74.7	57.6
02:00 PM - 03:00 PM	57.9	67.8	56.6
03:00 PM - 04:00 PM	58.3	68.4	56.8
04:00 PM - 05:00 PM	58.3	68.7	57.4
05:00 PM - 06:00 PM	61.7	83.3	61.0
06:00 PM - 07:00 PM	60.6	78.2	59.7
07:00 PM - 08:00 PM	58.7	70.1	57.8
08:00 PM - 09:00 PM	58.6	68.6	57.8
09:00 PM - 10:00 PM	58.6	69.1	57.7
10:00 PM - 11:00 PM	58.8	68.6	58.0
11:00 PM - 12:00 AM	58.5	68.4	57.8
12:00 AM - 01:00 AM	58.6	69.7	57.6
01:00 AM - 02:00 AM	59.0	67.9	58.0
02:00 AM - 03:00 AM	59.0	68.1	58.0
03:00 AM - 04:00 AM	58.9	68.1	58.0
04:00 AM - 05:00 AM	59.6	68.6	58.8
05:00 AM - 06:00 AM	60.4	69.8	59.5
06:00 AM - 07:00 AM	59.5	68.7	58.7
07:00 AM - 08:00 AM	58.7	67.8	57.7
08:00 AM - 09:00 AM	58.6	67.8	57.7

Leq Average 24 hrs. (dB(A)) 59.1
Lmax (dB(A)) 83.3
L90 (dB(A)) 57.8
Ldn (dB(A)) 65.6

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446513-1

Page 1 of 1

Sample Number 2576872-5
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.3	68.4	57.5
10:00 AM - 11:00 AM	57.7	67.6	56.6
11:00 AM - 12:00 PM	57.3	67.6	55.9
12:00 PM - 01:00 PM	57.3	68.9	56.2
01:00 PM - 02:00 PM	57.7	66.3	56.3
02:00 PM - 03:00 PM	58.0	69.3	56.3
03:00 PM - 04:00 PM	58.0	66.2	56.6
04:00 PM - 05:00 PM	58.2	76.5	57.0
05:00 PM - 06:00 PM	63.8	80.9	62.0
06:00 PM - 07:00 PM	61.0	68.1	60.1
07:00 PM - 08:00 PM	59.5	68.8	58.8
08:00 PM - 09:00 PM	59.8	72.4	59.0
09:00 PM - 10:00 PM	59.1	67.8	58.3
10:00 PM - 11:00 PM	59.3	68.5	58.7
11:00 PM - 12:00 AM	59.1	68.7	58.2
12:00 AM - 01:00 AM	58.9	68.9	58.2
01:00 AM - 02:00 AM	59.2	68.9	58.2
02:00 AM - 03:00 AM	59.1	68.6	58.1
03:00 AM - 04:00 AM	59.4	75.2	58.4
04:00 AM - 05:00 AM	59.2	68.6	58.4
05:00 AM - 06:00 AM	60.7	69.4	60.0
06:00 AM - 07:00 AM	59.9	69.0	59.1
07:00 AM - 08:00 AM	59.0	70.2	58.1
08:00 AM - 09:00 AM	59.1	68.0	58.4

Leq Average 24 hrs. (dB(A)) 59.4
Lmax (dB(A)) 80.9
L90 (dB(A)) 58.2
Ldn (dB(A)) 65.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446514-1

Page 1 of 1

Sample Number 2576872-6
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.6	67.1	56.7
10:00 AM - 11:00 AM	58.0	66.2	56.8
11:00 AM - 12:00 PM	57.5	64.9	56.1
12:00 PM - 01:00 PM	57.6	67.2	56.3
01:00 PM - 02:00 PM	57.4	65.2	56.1
02:00 PM - 03:00 PM	57.8	67.4	56.8
03:00 PM - 04:00 PM	58.2	69.4	57.3
04:00 PM - 05:00 PM	58.4	67.2	57.6
05:00 PM - 06:00 PM	60.2	67.7	59.5
06:00 PM - 07:00 PM	63.1	68.5	62.5
07:00 PM - 08:00 PM	59.3	67.6	58.4
08:00 PM - 09:00 PM	59.2	72.2	58.3
09:00 PM - 10:00 PM	59.2	68.6	58.4
10:00 PM - 11:00 PM	58.6	68.9	57.9
11:00 PM - 12:00 AM	58.6	68.3	57.8
12:00 AM - 01:00 AM	58.5	69.3	57.7
01:00 AM - 02:00 AM	58.7	69.7	57.9
02:00 AM - 03:00 AM	58.9	68.9	58.0
03:00 AM - 04:00 AM	58.9	68.7	58.0
04:00 AM - 05:00 AM	59.6	68.6	58.8
05:00 AM - 06:00 AM	60.6	69.5	59.9
06:00 AM - 07:00 AM	60.7	80.5	59.0
07:00 AM - 08:00 AM	58.9	69.1	57.9
08:00 AM - 09:00 AM	58.6	68.1	57.7

Leq Average 24 hrs. (dB(A)) 59.1
Lmax (dB(A)) 80.5
L90 (dB(A)) 57.9
Ldn (dB(A)) 65.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446515-1

Page 1 of 1

Sample Number 2576872-7
Parameter Noise (Leq 24 hrs.)
Location N1 ริมรั้วโครงการด้านทิศเหนือ (GPS 47N 689932, 757645)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120941

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.2	70.1	57.2
10:00 AM - 11:00 AM	57.8	66.6	56.9
11:00 AM - 12:00 PM	57.6	66.4	56.4
12:00 PM - 01:00 PM	57.3	66.0	56.1
01:00 PM - 02:00 PM	57.6	69.8	56.4
02:00 PM - 03:00 PM	57.6	66.0	56.5
03:00 PM - 04:00 PM	57.7	70.5	56.6
04:00 PM - 05:00 PM	58.8	72.9	57.4
05:00 PM - 06:00 PM	60.4	73.0	59.5
06:00 PM - 07:00 PM	62.0	68.0	61.2
07:00 PM - 08:00 PM	59.5	68.1	58.7
08:00 PM - 09:00 PM	58.6	68.4	57.8
09:00 PM - 10:00 PM	58.9	67.5	58.1
10:00 PM - 11:00 PM	59.0	68.3	58.1
11:00 PM - 12:00 AM	58.9	71.4	58.2
12:00 AM - 01:00 AM	58.7	68.7	57.9
01:00 AM - 02:00 AM	58.7	69.1	57.9
02:00 AM - 03:00 AM	58.3	68.6	57.4
03:00 AM - 04:00 AM	58.9	68.6	58.1
04:00 AM - 05:00 AM	58.4	68.8	57.6
05:00 AM - 06:00 AM	59.3	69.3	58.5
06:00 AM - 07:00 AM	59.0	71.3	58.1
07:00 AM - 08:00 AM	58.0	83.1	56.9
08:00 AM - 09:00 AM	58.2	83.0	57.2

Leq Average 24 hrs. (dB(A)) 58.8
Lmax (dB(A)) 83.1
L90 (dB(A)) 57.6
Ldn (dB(A)) 65.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446516-1

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Sample Number 2576872-8
Parameter Noise (Leq 24 hrs.)
Location N2 ร่มรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.2	74.9	60.1
10:00 AM - 11:00 AM	60.9	76.1	59.6
11:00 AM - 12:00 PM	62.2	84.3	58.4
12:00 PM - 01:00 PM	60.7	79.5	58.7
01:00 PM - 02:00 PM	63.1	80.8	60.3
02:00 PM - 03:00 PM	62.7	78.1	60.3
03:00 PM - 04:00 PM	63.2	84.8	59.0
04:00 PM - 05:00 PM	60.2	78.5	58.6
05:00 PM - 06:00 PM	66.1	93.1	64.3
06:00 PM - 07:00 PM	63.5	89.6	61.7
07:00 PM - 08:00 PM	61.0	80.1	59.5
08:00 PM - 09:00 PM	62.0	75.7	60.5
09:00 PM - 10:00 PM	62.7	87.1	61.0
10:00 PM - 11:00 PM	61.7	86.1	60.6
11:00 PM - 12:00 AM	62.2	80.2	60.6
12:00 AM - 01:00 AM	61.9	85.0	60.5
01:00 AM - 02:00 AM	61.2	81.9	60.2
02:00 AM - 03:00 AM	61.1	75.8	60.1
03:00 AM - 04:00 AM	62.1	91.3	60.5
04:00 AM - 05:00 AM	62.5	82.2	61.3
05:00 AM - 06:00 AM	62.5	82.5	61.6
06:00 AM - 07:00 AM	61.9	78.4	61.1
07:00 AM - 08:00 AM	61.7	82.0	60.8
08:00 AM - 09:00 AM	63.3	85.4	61.3

Leq Average 24 hrs. (dB(A)) 62.3
Lmax (dB(A)) 93.1
L90 (dB(A)) 60.5
Ldn (dB(A)) 68.4

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446517-1

Page 1 of 1

Sample Number 2576872-9
Parameter Noise (Leq 24 hrs.)
Location N2 ริมรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	64.4	97.3	60.9
10:00 AM - 11:00 AM	62.3	84.4	60.4
11:00 AM - 12:00 PM	63.3	82.6	60.9
12:00 PM - 01:00 PM	62.3	84.7	61.2
01:00 PM - 02:00 PM	64.2	90.6	60.7
02:00 PM - 03:00 PM	62.4	80.7	60.0
03:00 PM - 04:00 PM	62.3	98.5	60.1
04:00 PM - 05:00 PM	61.7	89.8	60.1
05:00 PM - 06:00 PM	65.8	82.8	64.7
06:00 PM - 07:00 PM	64.2	90.1	62.5
07:00 PM - 08:00 PM	62.5	86.8	61.4
08:00 PM - 09:00 PM	62.8	85.9	61.7
09:00 PM - 10:00 PM	62.2	85.3	61.2
10:00 PM - 11:00 PM	62.8	75.4	61.2
11:00 PM - 12:00 AM	61.7	87.5	60.7
12:00 AM - 01:00 AM	61.9	78.4	60.8
01:00 AM - 02:00 AM	63.1	80.5	62.4
02:00 AM - 03:00 AM	63.3	77.7	62.8
03:00 AM - 04:00 AM	64.1	77.0	63.0
04:00 AM - 05:00 AM	63.7	77.3	63.2
05:00 AM - 06:00 AM	64.1	83.6	63.2
06:00 AM - 07:00 AM	62.6	79.3	61.8
07:00 AM - 08:00 AM	62.7	80.6	61.8
08:00 AM - 09:00 AM	62.7	76.2	61.8

Leq Average 24 hrs. (dB(A)) 63.2
Lmax (dB(A)) 98.5
L90 (dB(A)) 61.2
Ldn (dB(A)) 69.5

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446518-1

Page 1 of 1

Sample Number 2576872-10
Parameter Noise (Leq 24 hrs.)
Location N2 ริมรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	62.3	75.2	60.9
10:00 AM - 11:00 AM	62.7	88.7	60.2
11:00 AM - 12:00 PM	62.1	85.5	60.2
12:00 PM - 01:00 PM	61.5	85.9	60.2
01:00 PM - 02:00 PM	64.6	89.5	61.7
02:00 PM - 03:00 PM	62.5	84.5	60.2
03:00 PM - 04:00 PM	64.8	87.1	61.9
04:00 PM - 05:00 PM	63.7	82.8	61.8
05:00 PM - 06:00 PM	66.8	85.9	66.0
06:00 PM - 07:00 PM	66.5	81.9	65.4
07:00 PM - 08:00 PM	65.1	84.1	64.3
08:00 PM - 09:00 PM	65.1	80.9	64.3
09:00 PM - 10:00 PM	65.9	87.2	64.7
10:00 PM - 11:00 PM	64.5	73.4	63.8
11:00 PM - 12:00 AM	64.0	83.5	63.0
12:00 AM - 01:00 AM	63.8	82.2	62.8
01:00 AM - 02:00 AM	63.6	86.3	62.7
02:00 AM - 03:00 AM	64.5	80.5	63.8
03:00 AM - 04:00 AM	64.9	79.2	64.2
04:00 AM - 05:00 AM	64.9	87.7	64.2
05:00 AM - 06:00 AM	66.0	87.6	65.0
06:00 AM - 07:00 AM	65.6	85.4	63.7
07:00 AM - 08:00 AM	63.8	81.2	62.5
08:00 AM - 09:00 AM	63.7	82.7	62.5

Leq Average 24 hrs. (dB(A)) 64.5
Lmax (dB(A)) 89.5
L90 (dB(A)) 62.8
Ldn (dB(A)) 71.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446519-1

Page 1 of 1

Sample Number 2576872-11
Parameter Noise (Leq 24 hrs.)
Location N2 ริมรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	63.8	86.2	62.4
10:00 AM - 11:00 AM	63.5	76.2	62.6
11:00 AM - 12:00 PM	64.4	89.6	62.4
12:00 PM - 01:00 PM	63.6	90.0	61.0
01:00 PM - 02:00 PM	66.0	93.1	61.6
02:00 PM - 03:00 PM	63.0	84.2	60.6
03:00 PM - 04:00 PM	61.9	78.2	61.2
04:00 PM - 05:00 PM	62.3	76.2	61.3
05:00 PM - 06:00 PM	66.0	79.9	64.8
06:00 PM - 07:00 PM	64.6	92.4	62.8
07:00 PM - 08:00 PM	62.2	84.5	61.3
08:00 PM - 09:00 PM	62.6	77.7	61.6
09:00 PM - 10:00 PM	62.4	77.6	61.7
10:00 PM - 11:00 PM	62.4	77.1	61.6
11:00 PM - 12:00 AM	61.4	82.1	60.6
12:00 AM - 01:00 AM	61.7	86.3	60.6
01:00 AM - 02:00 AM	62.0	87.7	60.9
02:00 AM - 03:00 AM	61.9	71.9	61.3
03:00 AM - 04:00 AM	62.0	71.4	61.5
04:00 AM - 05:00 AM	62.6	68.0	62.1
05:00 AM - 06:00 AM	63.7	73.3	62.6
06:00 AM - 07:00 AM	62.6	75.1	62.0
07:00 AM - 08:00 AM	62.8	75.4	61.7
08:00 AM - 09:00 AM	62.3	73.4	61.4

Leq Average 24 hrs. (dB(A)) 63.2
Lmax (dB(A)) 93.1
L90 (dB(A)) 61.6
Ldn (dB(A)) 68.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446520-1

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Sample Number 2576872-12
Parameter Noise (Leq 24 hrs.)
Location N2 ริมรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.4	79.4	60.7
10:00 AM - 11:00 AM	63.1	86.1	60.5
11:00 AM - 12:00 PM	64.3	95.3	60.7
12:00 PM - 01:00 PM	61.5	81.0	60.7
01:00 PM - 02:00 PM	63.6	89.5	60.7
02:00 PM - 03:00 PM	63.8	82.8	61.0
03:00 PM - 04:00 PM	63.6	75.4	62.1
04:00 PM - 05:00 PM	63.9	83.4	62.2
05:00 PM - 06:00 PM	67.0	84.9	66.0
06:00 PM - 07:00 PM	65.3	90.3	64.2
07:00 PM - 08:00 PM	62.8	81.2	62.2
08:00 PM - 09:00 PM	64.5	85.8	62.5
09:00 PM - 10:00 PM	63.1	76.7	62.1
10:00 PM - 11:00 PM	62.4	73.4	61.7
11:00 PM - 12:00 AM	63.6	81.6	62.4
12:00 AM - 01:00 AM	63.4	81.4	62.3
01:00 AM - 02:00 AM	63.6	79.6	62.2
02:00 AM - 03:00 AM	63.0	78.8	62.0
03:00 AM - 04:00 AM	63.3	80.1	62.1
04:00 AM - 05:00 AM	63.3	80.8	62.3
05:00 AM - 06:00 AM	65.0	82.9	63.5
06:00 AM - 07:00 AM	64.4	87.0	62.6
07:00 AM - 08:00 AM	63.5	84.8	62.0
08:00 AM - 09:00 AM	62.9	78.1	61.9

Leq Average 24 hrs. (dB(A)) 63.8
Lmax (dB(A)) 95.3
L90 (dB(A)) 62.1
Ldn (dB(A)) 70.0

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446521-1

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Sample Number 2576872-13
Parameter Noise (Leq 24 hrs.)
Location N2 ร่มรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.7	70.3	60.6
10:00 AM - 11:00 AM	64.0	79.1	60.6
11:00 AM - 12:00 PM	63.5	81.5	60.6
12:00 PM - 01:00 PM	63.6	86.6	61.8
01:00 PM - 02:00 PM	62.8	71.8	61.6
02:00 PM - 03:00 PM	64.1	81.5	61.9
03:00 PM - 04:00 PM	63.3	87.0	61.1
04:00 PM - 05:00 PM	62.9	85.8	61.7
05:00 PM - 06:00 PM	66.3	85.3	64.8
06:00 PM - 07:00 PM	67.5	84.3	65.9
07:00 PM - 08:00 PM	65.3	71.9	64.2
08:00 PM - 09:00 PM	63.5	83.3	62.2
09:00 PM - 10:00 PM	63.9	81.9	62.4
10:00 PM - 11:00 PM	62.9	90.1	61.5
11:00 PM - 12:00 AM	63.3	87.8	61.6
12:00 AM - 01:00 AM	63.4	79.9	61.4
01:00 AM - 02:00 AM	62.2	79.5	61.2
02:00 AM - 03:00 AM	63.0	77.5	61.5
03:00 AM - 04:00 AM	62.9	79.4	62.0
04:00 AM - 05:00 AM	65.2	81.5	63.5
05:00 AM - 06:00 AM	65.5	79.5	64.2
06:00 AM - 07:00 AM	64.2	79.0	62.5
07:00 AM - 08:00 AM	63.4	80.6	62.0
08:00 AM - 09:00 AM	62.3	75.4	61.4

Leq Average 24 hrs. (dB(A)) 64.0
Lmax (dB(A)) 90.1
L90 (dB(A)) 61.7
Ldn (dB(A)) 70.2

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446522-1

Page 1 of 1

Sample Number 2576872-14
Parameter Noise (Leq 24 hrs.)
Location N2 ร่มรั้วโครงการด้านทิศใต้ (GPS 47N 690064, 757402)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120951

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.7	85.7	60.8
10:00 AM - 11:00 AM	61.4	74.5	60.6
11:00 AM - 12:00 PM	61.1	71.1	60.2
12:00 PM - 01:00 PM	60.4	72.9	59.5
01:00 PM - 02:00 PM	61.7	85.3	59.7
02:00 PM - 03:00 PM	60.8	71.0	60.0
03:00 PM - 04:00 PM	62.9	90.4	61.2
04:00 PM - 05:00 PM	62.4	80.0	61.2
05:00 PM - 06:00 PM	66.3	89.8	63.8
06:00 PM - 07:00 PM	67.2	85.5	64.8
07:00 PM - 08:00 PM	63.0	74.8	62.0
08:00 PM - 09:00 PM	63.1	79.5	62.2
09:00 PM - 10:00 PM	63.9	83.0	62.4
10:00 PM - 11:00 PM	64.9	85.0	61.4
11:00 PM - 12:00 AM	62.2	69.3	61.6
12:00 AM - 01:00 AM	62.2	76.1	61.6
01:00 AM - 02:00 AM	62.0	68.7	61.5
02:00 AM - 03:00 AM	62.0	65.9	61.5
03:00 AM - 04:00 AM	63.1	83.5	61.6
04:00 AM - 05:00 AM	63.3	80.6	62.1
05:00 AM - 06:00 AM	64.0	81.6	63.0
06:00 AM - 07:00 AM	65.3	85.1	62.4
07:00 AM - 08:00 AM	62.7	76.1	61.9
08:00 AM - 09:00 AM	63.0	75.2	62.2

Leq Average 24 hrs. (dB(A)) 63.3
Lmax (dB(A)) 90.4
L90 (dB(A)) 61.6
Ldn (dB(A)) 69.8

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chaiemthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446523-1

Page 1 of 1

Sample Number 2576872-15
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.3	83.3	51.0
10:00 AM - 11:00 AM	56.6	79.6	51.7
11:00 AM - 12:00 PM	61.0	82.0	49.6
12:00 PM - 01:00 PM	53.0	79.0	48.3
01:00 PM - 02:00 PM	53.1	81.0	48.5
02:00 PM - 03:00 PM	57.0	78.1	51.2
03:00 PM - 04:00 PM	50.4	69.0	46.5
04:00 PM - 05:00 PM	50.5	69.3	46.7
05:00 PM - 06:00 PM	51.6	76.8	49.0
06:00 PM - 07:00 PM	49.9	66.6	47.6
07:00 PM - 08:00 PM	50.9	71.4	47.6
08:00 PM - 09:00 PM	50.8	72.1	47.2
09:00 PM - 10:00 PM	51.2	69.0	47.4
10:00 PM - 11:00 PM	50.4	70.7	46.7
11:00 PM - 12:00 AM	49.4	67.0	45.6
12:00 AM - 01:00 AM	52.5	71.8	46.3
01:00 AM - 02:00 AM	53.4	74.6	46.8
02:00 AM - 03:00 AM	47.8	72.2	44.8
03:00 AM - 04:00 AM	55.6	77.3	50.7
04:00 AM - 05:00 AM	58.8	81.0	53.2
05:00 AM - 06:00 AM	58.0	82.4	52.6
06:00 AM - 07:00 AM	58.2	83.1	51.4
07:00 AM - 08:00 AM	50.4	74.5	45.2
08:00 AM - 09:00 AM	53.8	76.3	49.1

Leq Average 24 hrs. (dB(A)) 54.8
Lmax (dB(A)) 83.3
L90 (dB(A)) 47.6
Ldn (dB(A)) 61.6

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446524-1

Page 1 of 1

Sample Number 2576872-16
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.0	78.4	49.6
10:00 AM - 11:00 AM	57.1	79.8	52.2
11:00 AM - 12:00 PM	60.1	80.2	51.6
12:00 PM - 01:00 PM	49.4	67.7	45.9
01:00 PM - 02:00 PM	55.5	78.1	49.4
02:00 PM - 03:00 PM	59.4	88.7	54.8
03:00 PM - 04:00 PM	58.2	71.7	55.1
04:00 PM - 05:00 PM	57.5	73.1	54.6
05:00 PM - 06:00 PM	61.2	81.2	57.8
06:00 PM - 07:00 PM	60.1	79.9	56.2
07:00 PM - 08:00 PM	55.1	75.0	52.2
08:00 PM - 09:00 PM	53.2	73.9	49.2
09:00 PM - 10:00 PM	53.6	79.5	49.4
10:00 PM - 11:00 PM	53.6	75.8	49.4
11:00 PM - 12:00 AM	50.8	68.9	48.5
12:00 AM - 01:00 AM	49.6	61.6	47.5
01:00 AM - 02:00 AM	51.2	75.4	47.3
02:00 AM - 03:00 AM	48.9	69.6	45.8
03:00 AM - 04:00 AM	49.4	63.4	46.9
04:00 AM - 05:00 AM	49.8	70.5	47.5
05:00 AM - 06:00 AM	53.6	78.8	50.5
06:00 AM - 07:00 AM	52.3	78.4	49.0
07:00 AM - 08:00 AM	49.7	68.8	47.5
08:00 AM - 09:00 AM	49.4	64.8	46.5

Leq Average 24 hrs. (dB(A)) 55.7
Lmax (dB(A)) 88.7
L90 (dB(A)) 49.4
Ldn (dB(A)) 59.2

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446525-1

Page 1 of 1

Sample Number 2576872-17
Parameter Noise (Leq 24 hrs.)
Location N3 ร่มรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.3	76.3	46.3
10:00 AM - 11:00 AM	55.6	78.0	50.4
11:00 AM - 12:00 PM	63.1	81.8	49.6
12:00 PM - 01:00 PM	50.7	70.8	45.7
01:00 PM - 02:00 PM	58.6	79.0	48.5
02:00 PM - 03:00 PM	60.3	80.8	48.5
03:00 PM - 04:00 PM	57.5	80.3	51.5
04:00 PM - 05:00 PM	59.2	85.6	52.6
05:00 PM - 06:00 PM	56.1	74.1	54.0
06:00 PM - 07:00 PM	56.1	75.5	54.5
07:00 PM - 08:00 PM	56.6	75.0	55.0
08:00 PM - 09:00 PM	57.0	73.9	55.5
09:00 PM - 10:00 PM	57.5	75.5	56.4
10:00 PM - 11:00 PM	56.4	75.1	54.9
11:00 PM - 12:00 AM	55.3	74.7	53.8
12:00 AM - 01:00 AM	56.2	70.3	53.6
01:00 AM - 02:00 AM	54.0	74.7	52.6
02:00 AM - 03:00 AM	53.1	69.9	51.7
03:00 AM - 04:00 AM	53.6	72.4	51.8
04:00 AM - 05:00 AM	56.5	85.2	52.8
05:00 AM - 06:00 AM	54.7	80.4	51.9
06:00 AM - 07:00 AM	54.9	75.2	51.7
07:00 AM - 08:00 AM	50.7	65.1	48.4
08:00 AM - 09:00 AM	49.7	68.5	47.0

Leq Average 24 hrs. (dB(A)) 56.7
Lmax (dB(A)) 85.6
L90 (dB(A)) 51.8
Ldn (dB(A)) 62.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



Saranya Chalermthamrong
Scientist (4)

Approved by



Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446526-1

Page 1 of 1

Sample Number 2576872-18
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.7	70.9	47.7
10:00 AM - 11:00 AM	51.3	71.3	46.6
11:00 AM - 12:00 PM	49.2	70.9	46.3
12:00 PM - 01:00 PM	49.5	76.6	46.9
01:00 PM - 02:00 PM	51.0	66.8	46.5
02:00 PM - 03:00 PM	53.6	74.8	49.2
03:00 PM - 04:00 PM	55.3	84.2	49.1
04:00 PM - 05:00 PM	46.5	58.7	44.8
05:00 PM - 06:00 PM	51.3	67.1	49.9
06:00 PM - 07:00 PM	53.4	78.7	51.3
07:00 PM - 08:00 PM	55.0	78.2	51.5
08:00 PM - 09:00 PM	53.5	66.5	49.8
09:00 PM - 10:00 PM	49.3	64.4	47.4
10:00 PM - 11:00 PM	47.6	63.3	46.2
11:00 PM - 12:00 AM	49.2	74.6	46.2
12:00 AM - 01:00 AM	48.4	62.7	46.5
01:00 AM - 02:00 AM	50.6	73.2	47.3
02:00 AM - 03:00 AM	51.3	71.6	48.5
03:00 AM - 04:00 AM	51.0	72.3	48.4
04:00 AM - 05:00 AM	50.9	72.3	48.9
05:00 AM - 06:00 AM	54.3	73.4	50.2
06:00 AM - 07:00 AM	54.0	74.7	49.5
07:00 AM - 08:00 AM	49.7	66.2	48.1
08:00 AM - 09:00 AM	56.3	74.8	52.0

Leq Average 24 hrs. (dB(A)) 52.1
Lmax (dB(A)) 84.2
L90 (dB(A)) 48.1
Ldn (dB(A)) 57.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446527-1

Page 1 of 1

Sample Number 2576872-19
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.7	75.0	50.3
10:00 AM - 11:00 AM	55.2	80.4	50.8
11:00 AM - 12:00 PM	53.0	72.2	49.4
12:00 PM - 01:00 PM	50.5	65.5	49.1
01:00 PM - 02:00 PM	53.8	71.6	50.4
02:00 PM - 03:00 PM	56.5	73.9	50.9
03:00 PM - 04:00 PM	51.2	67.6	46.2
04:00 PM - 05:00 PM	48.7	77.2	45.6
05:00 PM - 06:00 PM	60.7	80.5	56.0
06:00 PM - 07:00 PM	53.3	74.6	51.6
07:00 PM - 08:00 PM	53.9	78.1	51.4
08:00 PM - 09:00 PM	52.1	77.9	48.4
09:00 PM - 10:00 PM	52.0	78.2	48.1
10:00 PM - 11:00 PM	52.5	78.7	48.7
11:00 PM - 12:00 AM	55.1	81.2	50.0
12:00 AM - 01:00 AM	51.2	71.0	49.4
01:00 AM - 02:00 AM	53.1	80.4	49.4
02:00 AM - 03:00 AM	50.9	69.7	49.2
03:00 AM - 04:00 AM	54.0	79.3	50.4
04:00 AM - 05:00 AM	54.0	80.3	50.1
05:00 AM - 06:00 AM	58.2	83.7	52.4
06:00 AM - 07:00 AM	58.5	84.8	52.3
07:00 AM - 08:00 AM	59.4	91.6	51.4
08:00 AM - 09:00 AM	49.0	63.5	47.6

Leq Average 24 hrs. (dB(A)) 55.0
Lmax (dB(A)) 91.6
L90 (dB(A)) 50.0
Ldn (dB(A)) 61.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446528-1

Page 1 of 1

Sample Number 2576872-20
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.6	74.2	48.1
10:00 AM - 11:00 AM	59.0	82.6	52.2
11:00 AM - 12:00 PM	57.6	82.0	50.9
12:00 PM - 01:00 PM	55.3	73.0	48.9
01:00 PM - 02:00 PM	61.1	95.1	50.2
02:00 PM - 03:00 PM	62.5	81.0	53.5
03:00 PM - 04:00 PM	61.9	79.9	52.1
04:00 PM - 05:00 PM	60.5	81.5	55.6
05:00 PM - 06:00 PM	54.9	79.5	50.5
06:00 PM - 07:00 PM	52.5	65.9	50.7
07:00 PM - 08:00 PM	52.5	75.7	50.2
08:00 PM - 09:00 PM	51.8	68.9	50.3
09:00 PM - 10:00 PM	51.9	67.4	50.2
10:00 PM - 11:00 PM	57.5	76.5	52.0
11:00 PM - 12:00 AM	58.5	87.1	52.9
12:00 AM - 01:00 AM	53.8	77.5	52.3
01:00 AM - 02:00 AM	61.3	94.1	54.4
02:00 AM - 03:00 AM	60.6	95.0	52.4
03:00 AM - 04:00 AM	52.4	73.7	50.0
04:00 AM - 05:00 AM	52.6	69.1	50.4
05:00 AM - 06:00 AM	54.5	74.2	52.0
06:00 AM - 07:00 AM	55.2	77.3	51.6
07:00 AM - 08:00 AM	52.6	73.7	48.8
08:00 AM - 09:00 AM	53.1	83.1	49.0

Leq Average 24 hrs. (dB(A)) 57.6
Lmax (dB(A)) 95.1
L90 (dB(A)) 50.7
Ldn (dB(A)) 63.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446529-1

Page 1 of 1

Sample Number 2576872-21
Parameter Noise (Leq 24 hrs.)
Location N3 ริมรั้วโครงการด้านทิศตะวันออก (GPS 47N 690364, 757491)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 331095

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.7	85.5	47.6
10:00 AM - 11:00 AM	49.0	66.8	46.7
11:00 AM - 12:00 PM	50.7	72.6	46.7
12:00 PM - 01:00 PM	51.4	76.9	45.6
01:00 PM - 02:00 PM	51.4	69.6	45.7
02:00 PM - 03:00 PM	47.9	70.1	45.8
03:00 PM - 04:00 PM	48.3	73.4	45.7
04:00 PM - 05:00 PM	51.8	82.8	46.8
05:00 PM - 06:00 PM	51.3	69.7	48.5
06:00 PM - 07:00 PM	51.4	70.1	49.1
07:00 PM - 08:00 PM	56.8	84.4	50.7
08:00 PM - 09:00 PM	53.6	71.3	48.6
09:00 PM - 10:00 PM	51.8	70.4	48.4
10:00 PM - 11:00 PM	52.0	75.1	48.8
11:00 PM - 12:00 AM	61.4	92.4	50.8
12:00 AM - 01:00 AM	58.9	93.1	52.0
01:00 AM - 02:00 AM	56.8	76.6	52.1
02:00 AM - 03:00 AM	62.6	88.7	54.3
03:00 AM - 04:00 AM	60.8	84.9	50.2
04:00 AM - 05:00 AM	52.9	73.4	50.5
05:00 AM - 06:00 AM	55.1	76.3	51.2
06:00 AM - 07:00 AM	57.8	80.5	52.0
07:00 AM - 08:00 AM	51.9	68.1	49.6
08:00 AM - 09:00 AM	54.2	73.6	48.7

Leq Average 24 hrs. (dB(A)) 55.9
Lmax (dB(A)) 93.1
L90 (dB(A)) 48.7
Ldn (dB(A)) 64.8

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446530-1

Page 1 of 1

Sample Number 2576872-22
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.5	71.8	47.7
10:00 AM - 11:00 AM	51.2	74.3	47.3
11:00 AM - 12:00 PM	51.9	71.2	48.1
12:00 PM - 01:00 PM	53.2	73.5	49.5
01:00 PM - 02:00 PM	53.8	90.6	47.7
02:00 PM - 03:00 PM	52.6	81.3	46.8
03:00 PM - 04:00 PM	51.0	71.5	46.5
04:00 PM - 05:00 PM	53.0	76.5	47.0
05:00 PM - 06:00 PM	55.9	77.5	51.9
06:00 PM - 07:00 PM	56.0	74.7	52.8
07:00 PM - 08:00 PM	57.1	79.6	54.1
08:00 PM - 09:00 PM	57.1	72.4	54.6
09:00 PM - 10:00 PM	54.0	78.4	51.3
10:00 PM - 11:00 PM	57.4	84.2	53.6
11:00 PM - 12:00 AM	55.8	84.3	52.3
12:00 AM - 01:00 AM	54.5	75.8	50.8
01:00 AM - 02:00 AM	52.9	75.7	49.1
02:00 AM - 03:00 AM	54.3	84.9	49.3
03:00 AM - 04:00 AM	53.3	76.1	50.3
04:00 AM - 05:00 AM	54.3	78.9	50.6
05:00 AM - 06:00 AM	54.4	74.9	51.3
06:00 AM - 07:00 AM	53.0	76.4	49.7
07:00 AM - 08:00 AM	53.4	77.7	48.5
08:00 AM - 09:00 AM	55.5	77.3	49.7

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 90.6
L90 (dB(A)) 49.7
Ldn (dB(A)) 61.0

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



Saranya Chalermthamrong
Scientist (4)

Approved by



Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446531-1

Page 1 of 1

Sample Number 2576872-23
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.9	77.6	49.7
10:00 AM - 11:00 AM	52.6	75.2	49.3
11:00 AM - 12:00 PM	54.3	78.6	50.8
12:00 PM - 01:00 PM	53.4	76.2	49.6
01:00 PM - 02:00 PM	53.6	76.3	50.1
02:00 PM - 03:00 PM	55.4	79.4	50.3
03:00 PM - 04:00 PM	54.4	81.6	50.0
04:00 PM - 05:00 PM	52.6	80.2	48.9
05:00 PM - 06:00 PM	59.7	82.7	56.2
06:00 PM - 07:00 PM	57.1	79.8	54.5
07:00 PM - 08:00 PM	55.7	79.4	53.6
08:00 PM - 09:00 PM	55.9	74.1	53.8
09:00 PM - 10:00 PM	55.3	75.4	53.6
10:00 PM - 11:00 PM	53.9	75.3	51.8
11:00 PM - 12:00 AM	51.6	74.6	50.0
12:00 AM - 01:00 AM	50.7	68.9	49.2
01:00 AM - 02:00 AM	50.8	78.1	48.2
02:00 AM - 03:00 AM	51.7	74.0	49.4
03:00 AM - 04:00 AM	50.9	67.2	49.6
04:00 AM - 05:00 AM	53.4	76.5	50.8
05:00 AM - 06:00 AM	53.2	75.6	50.2
06:00 AM - 07:00 AM	54.6	85.1	50.6
07:00 AM - 08:00 AM	51.7	70.4	48.1
08:00 AM - 09:00 AM	53.2	78.5	50.6

Leq Average 24 hrs. (dB(A)) 54.3
Lmax (dB(A)) 85.1
L90 (dB(A)) 50.1
Ldn (dB(A)) 59.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446532-1

Page 1 of 1

Sample Number 2576872-24
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.7	80.9	50.4
10:00 AM - 11:00 AM	56.3	84.1	49.4
11:00 AM - 12:00 PM	52.5	74.5	48.9
12:00 PM - 01:00 PM	52.4	72.9	47.9
01:00 PM - 02:00 PM	52.1	77.6	47.4
02:00 PM - 03:00 PM	52.7	72.8	48.6
03:00 PM - 04:00 PM	59.6	82.1	55.6
04:00 PM - 05:00 PM	62.6	81.1	57.5
05:00 PM - 06:00 PM	59.7	87.9	56.4
06:00 PM - 07:00 PM	61.4	82.1	59.4
07:00 PM - 08:00 PM	59.6	79.7	57.6
08:00 PM - 09:00 PM	60.3	83.9	58.5
09:00 PM - 10:00 PM	59.9	76.0	58.7
10:00 PM - 11:00 PM	59.8	84.2	57.6
11:00 PM - 12:00 AM	57.4	67.3	55.9
12:00 AM - 01:00 AM	57.5	69.2	56.2
01:00 AM - 02:00 AM	56.2	86.1	54.2
02:00 AM - 03:00 AM	56.4	83.2	52.9
03:00 AM - 04:00 AM	55.8	76.3	52.9
04:00 AM - 05:00 AM	55.8	77.2	53.8
05:00 AM - 06:00 AM	57.9	89.9	54.1
06:00 AM - 07:00 AM	53.7	72.0	51.1
07:00 AM - 08:00 AM	52.8	74.8	48.9
08:00 AM - 09:00 AM	52.0	83.3	47.9

Leq Average 24 hrs. (dB(A)) 57.7
Lmax (dB(A)) 89.9
L90 (dB(A)) 53.8
Ldn (dB(A)) 63.6

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446533-1

Page 1 of 1

Sample Number 2576872-25
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	51.1	79.3	48.1
10:00 AM - 11:00 AM	51.3	70.7	48.3
11:00 AM - 12:00 PM	53.0	82.4	48.4
12:00 PM - 01:00 PM	50.2	65.3	48.0
01:00 PM - 02:00 PM	53.9	88.8	48.2
02:00 PM - 03:00 PM	51.7	77.4	47.2
03:00 PM - 04:00 PM	54.4	84.8	48.9
04:00 PM - 05:00 PM	54.5	82.4	48.8
05:00 PM - 06:00 PM	57.0	86.9	52.6
06:00 PM - 07:00 PM	55.9	81.6	53.1
07:00 PM - 08:00 PM	56.7	87.7	52.4
08:00 PM - 09:00 PM	54.2	74.3	52.1
09:00 PM - 10:00 PM	52.7	70.0	51.6
10:00 PM - 11:00 PM	52.7	71.7	50.5
11:00 PM - 12:00 AM	52.9	83.4	50.7
12:00 AM - 01:00 AM	51.6	74.4	49.3
01:00 AM - 02:00 AM	52.1	75.0	49.4
02:00 AM - 03:00 AM	51.2	71.0	49.4
03:00 AM - 04:00 AM	53.5	84.8	50.7
04:00 AM - 05:00 AM	54.0	61.0	52.1
05:00 AM - 06:00 AM	53.9	65.7	52.6
06:00 AM - 07:00 AM	53.6	73.4	50.1
07:00 AM - 08:00 AM	50.0	63.3	48.2
08:00 AM - 09:00 AM	53.5	68.8	50.2

Leq Average 24 hrs. (dB(A)) 53.5
Lmax (dB(A)) 88.8
L90 (dB(A)) 49.4
Ldn (dB(A)) 59.5

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446534-1

Page 1 of 1

Sample Number 2576872-26
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.6	73.6	48.1
10:00 AM - 11:00 AM	52.3	74.8	48.9
11:00 AM - 12:00 PM	55.8	84.7	49.2
12:00 PM - 01:00 PM	54.0	87.5	48.4
01:00 PM - 02:00 PM	52.3	80.7	48.7
02:00 PM - 03:00 PM	54.1	83.3	49.5
03:00 PM - 04:00 PM	54.9	85.1	50.1
04:00 PM - 05:00 PM	57.5	85.7	51.2
05:00 PM - 06:00 PM	62.1	84.2	58.7
06:00 PM - 07:00 PM	56.8	77.3	55.1
07:00 PM - 08:00 PM	58.1	78.0	55.3
08:00 PM - 09:00 PM	57.1	81.5	53.4
09:00 PM - 10:00 PM	53.4	74.3	51.8
10:00 PM - 11:00 PM	52.9	62.2	51.6
11:00 PM - 12:00 AM	56.8	84.9	51.9
12:00 AM - 01:00 AM	56.2	86.7	51.8
01:00 AM - 02:00 AM	53.0	67.3	51.9
02:00 AM - 03:00 AM	52.6	76.1	50.9
03:00 AM - 04:00 AM	51.7	82.8	49.7
04:00 AM - 05:00 AM	53.8	73.7	52.0
05:00 AM - 06:00 AM	56.7	71.6	54.3
06:00 AM - 07:00 AM	54.8	78.4	50.6
07:00 AM - 08:00 AM	50.4	65.3	48.9
08:00 AM - 09:00 AM	54.0	73.8	50.3

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 87.5
L90 (dB(A)) 50.9
Ldn (dB(A)) 61.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446535-1

Page 1 of 1

Sample Number 2576872-27
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.0	69.3	51.7
10:00 AM - 11:00 AM	59.4	85.3	54.1
11:00 AM - 12:00 PM	53.1	70.6	50.6
12:00 PM - 01:00 PM	60.4	88.6	54.8
01:00 PM - 02:00 PM	55.7	70.1	51.4
02:00 PM - 03:00 PM	55.1	75.7	49.9
03:00 PM - 04:00 PM	56.1	79.0	49.7
04:00 PM - 05:00 PM	54.8	67.7	50.9
05:00 PM - 06:00 PM	58.1	71.5	54.2
06:00 PM - 07:00 PM	58.8	69.4	54.7
07:00 PM - 08:00 PM	55.9	73.3	52.6
08:00 PM - 09:00 PM	55.3	78.9	52.4
09:00 PM - 10:00 PM	54.8	77.4	51.9
10:00 PM - 11:00 PM	53.7	84.6	51.1
11:00 PM - 12:00 AM	54.4	80.7	52.3
12:00 AM - 01:00 AM	52.5	69.8	51.2
01:00 AM - 02:00 AM	53.6	82.4	50.5
02:00 AM - 03:00 AM	52.3	82.1	49.9
03:00 AM - 04:00 AM	51.2	74.2	49.7
04:00 AM - 05:00 AM	52.1	63.6	51.0
05:00 AM - 06:00 AM	54.7	69.5	52.8
06:00 AM - 07:00 AM	55.0	77.0	51.9
07:00 AM - 08:00 AM	52.0	76.9	49.8
08:00 AM - 09:00 AM	56.4	72.5	49.7

Leq Average 24 hrs. (dB(A)) 55.7
Lmax (dB(A)) 88.6
L90 (dB(A)) 51.2
Ldn (dB(A)) 60.5

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446536-1

Page 1 of 1

Sample Number 2576872-28
Parameter Noise (Leq 24 hrs.)
Location N4 ริมรั้วโครงการด้านทิศตะวันตก (GPS 47N 689705, 757358)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1120942

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	57.8	81.2	49.5
10:00 AM - 11:00 AM	56.6	79.9	48.6
11:00 AM - 12:00 PM	53.4	72.6	47.8
12:00 PM - 01:00 PM	57.4	85.6	50.4
01:00 PM - 02:00 PM	57.4	76.2	54.7
02:00 PM - 03:00 PM	57.0	81.7	54.0
03:00 PM - 04:00 PM	58.4	84.0	54.4
04:00 PM - 05:00 PM	59.4	84.6	53.1
05:00 PM - 06:00 PM	59.1	81.6	52.2
06:00 PM - 07:00 PM	55.6	77.0	52.9
07:00 PM - 08:00 PM	54.6	73.5	51.3
08:00 PM - 09:00 PM	53.5	75.5	50.1
09:00 PM - 10:00 PM	54.3	80.0	50.7
10:00 PM - 11:00 PM	52.2	74.7	49.5
11:00 PM - 12:00 AM	52.3	71.1	50.6
12:00 AM - 01:00 AM	52.9	79.6	49.7
01:00 AM - 02:00 AM	53.1	75.8	48.6
02:00 AM - 03:00 AM	49.4	62.9	48.6
03:00 AM - 04:00 AM	50.2	68.2	48.9
04:00 AM - 05:00 AM	52.5	69.0	50.5
05:00 AM - 06:00 AM	53.4	67.6	51.5
06:00 AM - 07:00 AM	55.2	84.7	49.7
07:00 AM - 08:00 AM	53.0	89.5	47.8
08:00 AM - 09:00 AM	55.7	74.8	51.8

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 89.5
L90 (dB(A)) 50.4
Ldn (dB(A)) 59.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446537-1

Page 1 of 1

Sample Number 2576872-29
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	55.3	72.7	50.7
03:00 PM - 04:00 PM	54.5	65.2	50.6
04:00 PM - 05:00 PM	56.4	69.3	51.8
05:00 PM - 06:00 PM	55.7	67.9	53.0
06:00 PM - 07:00 PM	55.1	75.0	52.1
07:00 PM - 08:00 PM	54.2	68.6	51.5
08:00 PM - 09:00 PM	51.9	64.0	48.8
09:00 PM - 10:00 PM	50.8	64.9	47.6
10:00 PM - 11:00 PM	50.8	70.3	47.2
11:00 PM - 12:00 AM	50.0	64.5	46.9
12:00 AM - 01:00 AM	48.2	60.3	46.6
01:00 AM - 02:00 AM	47.1	59.3	44.9
02:00 AM - 03:00 AM	47.7	61.7	45.0
03:00 AM - 04:00 AM	46.8	63.9	44.7
04:00 AM - 05:00 AM	49.9	69.6	47.3
05:00 AM - 06:00 AM	50.9	65.9	48.7
06:00 AM - 07:00 AM	51.5	67.2	47.9
07:00 AM - 08:00 AM	52.6	70.8	47.9
08:00 AM - 09:00 AM	55.5	71.5	49.6
09:00 AM - 10:00 AM	59.6	70.2	54.6
10:00 AM - 11:00 AM	55.1	75.8	48.9
11:00 AM - 12:00 PM	58.7	86.4	53.0
12:00 PM - 01:00 PM	54.2	69.9	49.2
01:00 PM - 02:00 PM	53.5	70.9	48.9

Leq Average 24 hrs. (dB(A)) 54.0
Lmax (dB(A)) 86.4
L90 (dB(A)) 48.8
Ldn (dB(A)) 57.5

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446538-1

Page 1 of 1

Sample Number 2576872-30
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.8	65.1	49.7
03:00 PM - 04:00 PM	54.7	77.6	48.6
04:00 PM - 05:00 PM	53.7	72.9	48.0
05:00 PM - 06:00 PM	61.1	89.6	58.4
06:00 PM - 07:00 PM	58.3	88.4	54.9
07:00 PM - 08:00 PM	54.5	77.2	50.8
08:00 PM - 09:00 PM	51.6	62.8	46.9
09:00 PM - 10:00 PM	51.3	70.3	47.5
10:00 PM - 11:00 PM	50.2	62.1	46.7
11:00 PM - 12:00 AM	48.9	62.9	46.7
12:00 AM - 01:00 AM	48.6	63.2	45.9
01:00 AM - 02:00 AM	48.9	61.4	45.7
02:00 AM - 03:00 AM	47.9	59.4	45.3
03:00 AM - 04:00 AM	47.9	65.1	44.9
04:00 AM - 05:00 AM	49.1	60.7	46.1
05:00 AM - 06:00 AM	52.8	70.3	49.7
06:00 AM - 07:00 AM	53.1	68.3	50.2
07:00 AM - 08:00 AM	54.7	68.1	50.1
08:00 AM - 09:00 AM	57.2	72.7	52.8
09:00 AM - 10:00 AM	57.4	68.3	53.2
10:00 AM - 11:00 AM	57.4	77.9	50.5
11:00 AM - 12:00 PM	55.3	70.2	48.7
12:00 PM - 01:00 PM	56.8	77.1	50.7
01:00 PM - 02:00 PM	55.0	71.3	50.2

Leq Average 24 hrs. (dB(A)) 54.8
Lmax (dB(A)) 89.6
L90 (dB(A)) 48.7
Ldn (dB(A)) 58.2

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446539-1

Page 1 of 1

Sample Number 2576872-31
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.5	66.0	48.5
03:00 PM - 04:00 PM	60.7	85.8	56.2
04:00 PM - 05:00 PM	64.0	90.3	60.5
05:00 PM - 06:00 PM	62.4	89.3	59.8
06:00 PM - 07:00 PM	64.0	92.0	61.1
07:00 PM - 08:00 PM	59.2	88.2	56.7
08:00 PM - 09:00 PM	62.4	90.3	59.1
09:00 PM - 10:00 PM	63.2	91.4	60.6
10:00 PM - 11:00 PM	60.5	90.3	58.1
11:00 PM - 12:00 AM	59.2	92.5	56.0
12:00 AM - 01:00 AM	57.8	90.2	54.4
01:00 AM - 02:00 AM	55.3	92.4	52.2
02:00 AM - 03:00 AM	52.9	87.2	50.2
03:00 AM - 04:00 AM	55.1	90.9	52.7
04:00 AM - 05:00 AM	54.1	80.3	51.7
05:00 AM - 06:00 AM	53.5	87.5	50.6
06:00 AM - 07:00 AM	54.4	87.6	50.3
07:00 AM - 08:00 AM	54.9	69.9	50.2
08:00 AM - 09:00 AM	56.4	73.1	51.3
09:00 AM - 10:00 AM	56.2	77.7	51.9
10:00 AM - 11:00 AM	56.6	71.3	52.3
11:00 AM - 12:00 PM	56.5	76.9	51.8
12:00 PM - 01:00 PM	56.2	70.8	51.9
01:00 PM - 02:00 PM	57.0	72.2	52.9

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 92.5
L90 (dB(A)) 52.3
Ldn (dB(A)) 63.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446540-1

Page 1 of 1

Sample Number 2576872-32
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	55.5	69.2	51.7
03:00 PM - 04:00 PM	55.1	74.2	51.3
04:00 PM - 05:00 PM	53.0	72.0	49.0
05:00 PM - 06:00 PM	54.5	65.5	51.6
06:00 PM - 07:00 PM	54.8	66.1	52.4
07:00 PM - 08:00 PM	55.0	67.2	52.9
08:00 PM - 09:00 PM	53.6	63.7	50.6
09:00 PM - 10:00 PM	56.2	83.8	49.9
10:00 PM - 11:00 PM	50.5	63.7	47.3
11:00 PM - 12:00 AM	50.3	68.9	47.0
12:00 AM - 01:00 AM	49.2	59.2	46.6
01:00 AM - 02:00 AM	48.7	61.0	46.5
02:00 AM - 03:00 AM	49.5	68.1	47.1
03:00 AM - 04:00 AM	49.2	68.3	46.5
04:00 AM - 05:00 AM	49.0	60.3	45.9
05:00 AM - 06:00 AM	51.6	61.0	47.3
06:00 AM - 07:00 AM	51.7	67.8	47.7
07:00 AM - 08:00 AM	51.4	70.7	47.1
08:00 AM - 09:00 AM	56.6	70.2	50.2
09:00 AM - 10:00 AM	57.2	77.3	50.9
10:00 AM - 11:00 AM	56.0	75.4	48.9
11:00 AM - 12:00 PM	56.5	77.4	50.6
12:00 PM - 01:00 PM	58.9	70.7	52.1
01:00 PM - 02:00 PM	56.7	70.5	50.4

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 83.8
L90 (dB(A)) 49.0
Ldn (dB(A)) 57.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446541-1

Page 1 of 1

Sample Number 2576872-33
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	52.4	69.8	47.2
03:00 PM - 04:00 PM	55.3	67.9	49.3
04:00 PM - 05:00 PM	53.3	79.1	48.6
05:00 PM - 06:00 PM	62.3	89.8	59.4
06:00 PM - 07:00 PM	61.1	92.3	58.6
07:00 PM - 08:00 PM	56.8	86.9	54.0
08:00 PM - 09:00 PM	53.2	66.9	50.1
09:00 PM - 10:00 PM	56.6	68.3	49.8
10:00 PM - 11:00 PM	59.2	65.4	50.9
11:00 PM - 12:00 AM	61.1	65.9	50.9
12:00 AM - 01:00 AM	59.8	64.3	48.9
01:00 AM - 02:00 AM	49.0	67.2	46.5
02:00 AM - 03:00 AM	47.8	58.9	46.2
03:00 AM - 04:00 AM	48.6	63.8	45.9
04:00 AM - 05:00 AM	49.7	67.3	46.8
05:00 AM - 06:00 AM	54.7	67.5	49.8
06:00 AM - 07:00 AM	54.4	70.7	50.4
07:00 AM - 08:00 AM	54.8	72.1	50.4
08:00 AM - 09:00 AM	54.9	72.5	50.6
09:00 AM - 10:00 AM	60.3	74.9	54.9
10:00 AM - 11:00 AM	55.4	77.8	49.5
11:00 AM - 12:00 PM	53.2	78.0	47.2
12:00 PM - 01:00 PM	53.8	80.6	48.3
01:00 PM - 02:00 PM	53.3	72.5	48.3

Leq Average 24 hrs. (dB(A)) 56.8
Lmax (dB(A)) 92.3
L90 (dB(A)) 49.5
Ldn (dB(A)) 62.9

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446542-1

Page 1 of 1

Sample Number 2576872-34
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	54.6	74.3	49.1
03:00 PM - 04:00 PM	53.1	70.2	49.0
04:00 PM - 05:00 PM	52.4	70.3	47.6
05:00 PM - 06:00 PM	53.6	68.9	49.7
06:00 PM - 07:00 PM	53.9	67.5	50.5
07:00 PM - 08:00 PM	55.9	65.3	51.5
08:00 PM - 09:00 PM	62.3	68.8	55.5
09:00 PM - 10:00 PM	61.9	68.7	54.5
10:00 PM - 11:00 PM	61.0	65.9	51.2
11:00 PM - 12:00 AM	61.8	68.6	52.1
12:00 AM - 01:00 AM	58.1	65.0	49.6
01:00 AM - 02:00 AM	54.0	65.6	47.8
02:00 AM - 03:00 AM	50.6	59.9	46.7
03:00 AM - 04:00 AM	51.0	62.7	46.7
04:00 AM - 05:00 AM	50.7	65.9	47.0
05:00 AM - 06:00 AM	51.8	66.9	48.6
06:00 AM - 07:00 AM	52.8	72.7	48.3
07:00 AM - 08:00 AM	53.4	68.7	49.7
08:00 AM - 09:00 AM	55.9	77.5	50.8
09:00 AM - 10:00 AM	59.3	72.9	54.1
10:00 AM - 11:00 AM	54.2	71.5	48.6
11:00 AM - 12:00 PM	53.3	70.5	48.7
12:00 PM - 01:00 PM	54.6	81.4	48.7
01:00 PM - 02:00 PM	54.8	70.3	48.6

Leq Average 24 hrs. (dB(A)) 56.9
Lmax (dB(A)) 81.4
L90 (dB(A)) 49.0
Ldn (dB(A)) 63.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446543-1

Page 1 of 1

Sample Number 2576872-35
Parameter Noise (Leq 24 hrs.)
Location N5 โรงเรียนจะนะชนูปถัมภ์ (GPS 47N 689818, 758012)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173617

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.5	75.8	48.7
03:00 PM - 04:00 PM	52.2	64.9	48.0
04:00 PM - 05:00 PM	59.1	72.4	51.1
05:00 PM - 06:00 PM	59.0	72.6	54.9
06:00 PM - 07:00 PM	58.0	72.0	52.6
07:00 PM - 08:00 PM	54.1	73.9	52.0
08:00 PM - 09:00 PM	51.8	64.6	48.8
09:00 PM - 10:00 PM	50.6	65.3	47.9
10:00 PM - 11:00 PM	56.7	67.9	47.4
11:00 PM - 12:00 AM	64.5	68.3	51.2
12:00 AM - 01:00 AM	63.8	68.0	48.8
01:00 AM - 02:00 AM	64.1	68.4	50.3
02:00 AM - 03:00 AM	64.0	68.4	48.9
03:00 AM - 04:00 AM	61.8	68.3	48.3
04:00 AM - 05:00 AM	61.0	70.0	48.5
05:00 AM - 06:00 AM	51.4	74.2	48.3
06:00 AM - 07:00 AM	52.0	69.4	48.8
07:00 AM - 08:00 AM	53.0	67.4	49.3
08:00 AM - 09:00 AM	54.3	75.6	48.8
09:00 AM - 10:00 AM	53.7	72.7	48.6
10:00 AM - 11:00 AM	56.3	74.9	51.6
11:00 AM - 12:00 PM	61.6	87.3	53.6
12:00 PM - 01:00 PM	57.1	78.6	52.6
01:00 PM - 02:00 PM	54.7	76.0	51.9

Leq Average 24 hrs. (dB(A)) 59.3
Lmax (dB(A)) 87.3
L90 (dB(A)) 48.8
Ldn (dB(A)) 67.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



Saranya Chalermthamrong
Scientist (4)

Approved by



Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446544-1

Page 1 of 1

Sample Number 2576872-36
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 22 - Oct 23, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.4	74.9	47.4
02:00 PM - 03:00 PM	52.7	69.5	46.9
03:00 PM - 04:00 PM	50.7	72.3	40.0
04:00 PM - 05:00 PM	52.5	70.4	43.7
05:00 PM - 06:00 PM	46.2	76.5	42.4
06:00 PM - 07:00 PM	55.0	65.4	52.9
07:00 PM - 08:00 PM	52.1	62.4	47.4
08:00 PM - 09:00 PM	47.2	59.5	44.6
09:00 PM - 10:00 PM	45.8	62.3	43.3
10:00 PM - 11:00 PM	47.7	62.4	42.6
11:00 PM - 12:00 AM	53.8	64.2	41.8
12:00 AM - 01:00 AM	49.4	63.6	41.0
01:00 AM - 02:00 AM	49.1	61.0	41.1
02:00 AM - 03:00 AM	54.9	66.1	46.1
03:00 AM - 04:00 AM	53.8	71.7	42.6
04:00 AM - 05:00 AM	51.8	72.6	47.4
05:00 AM - 06:00 AM	55.1	73.6	49.9
06:00 AM - 07:00 AM	56.8	87.8	48.3
07:00 AM - 08:00 AM	52.8	79.8	43.5
08:00 AM - 09:00 AM	57.1	76.6	53.0
09:00 AM - 10:00 AM	54.8	70.6	50.3
10:00 AM - 11:00 AM	53.7	79.5	50.1
11:00 AM - 12:00 PM	46.9	71.6	40.1
12:00 PM - 01:00 PM	51.5	88.4	43.5

Leq Average 24 hrs. (dB(A)) 52.9
Lmax (dB(A)) 88.4
L90 (dB(A)) 43.7
Ldn (dB(A)) 59.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446545-1

Page 1 of 1

Sample Number 2576872-37
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 23 - Oct 24, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	48.4	79.5	44.0
02:00 PM - 03:00 PM	49.1	84.8	42.5
03:00 PM - 04:00 PM	48.9	71.1	40.9
04:00 PM - 05:00 PM	54.8	85.0	40.7
05:00 PM - 06:00 PM	63.0	81.8	59.4
06:00 PM - 07:00 PM	54.0	86.4	50.2
07:00 PM - 08:00 PM	53.7	62.0	50.8
08:00 PM - 09:00 PM	50.5	72.7	47.0
09:00 PM - 10:00 PM	49.1	60.3	45.2
10:00 PM - 11:00 PM	51.5	60.6	43.7
11:00 PM - 12:00 AM	50.7	59.2	43.6
12:00 AM - 01:00 AM	52.3	59.3	44.0
01:00 AM - 02:00 AM	49.4	59.6	42.2
02:00 AM - 03:00 AM	48.1	57.2	43.5
03:00 AM - 04:00 AM	49.2	68.7	44.6
04:00 AM - 05:00 AM	47.0	68.4	42.5
05:00 AM - 06:00 AM	51.3	70.2	45.7
06:00 AM - 07:00 AM	49.0	76.0	45.6
07:00 AM - 08:00 AM	52.3	78.7	42.5
08:00 AM - 09:00 AM	55.9	89.5	48.8
09:00 AM - 10:00 AM	54.4	79.7	50.6
10:00 AM - 11:00 AM	54.9	82.1	45.2
11:00 AM - 12:00 PM	54.6	86.7	44.2
12:00 PM - 01:00 PM	58.4	88.0	40.9

Leq Average 24 hrs. (dB(A)) 54.2
Lmax (dB(A)) 89.5
L90 (dB(A)) 44.0
Ldn (dB(A)) 57.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446546-1

Page 1 of 1

Sample Number 2576872-38
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 24 - Oct 25, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	48.6	69.0	40.1
02:00 PM - 03:00 PM	49.3	81.3	41.7
03:00 PM - 04:00 PM	56.5	85.1	49.0
04:00 PM - 05:00 PM	58.8	75.1	54.5
05:00 PM - 06:00 PM	60.2	81.0	58.0
06:00 PM - 07:00 PM	63.3	79.3	60.7
07:00 PM - 08:00 PM	58.6	77.6	55.9
08:00 PM - 09:00 PM	62.4	79.0	61.4
09:00 PM - 10:00 PM	62.2	79.9	61.1
10:00 PM - 11:00 PM	58.6	79.6	57.5
11:00 PM - 12:00 AM	55.1	81.3	53.9
12:00 AM - 01:00 AM	54.0	79.2	52.7
01:00 AM - 02:00 AM	50.0	67.6	48.8
02:00 AM - 03:00 AM	50.1	70.2	48.4
03:00 AM - 04:00 AM	51.9	75.0	50.8
04:00 AM - 05:00 AM	51.3	64.8	50.3
05:00 AM - 06:00 AM	52.6	71.0	46.8
06:00 AM - 07:00 AM	59.6	87.4	43.9
07:00 AM - 08:00 AM	48.8	79.2	40.8
08:00 AM - 09:00 AM	44.9	68.1	39.6
09:00 AM - 10:00 AM	50.1	68.6	46.0
10:00 AM - 11:00 AM	53.8	85.1	46.6
11:00 AM - 12:00 PM	55.9	71.1	51.8
12:00 PM - 01:00 PM	51.3	73.3	43.6

Leq Average 24 hrs. (dB(A)) 57.2
Lmax (dB(A)) 87.4
L90 (dB(A)) 49.0
Ldn (dB(A)) 62.1

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



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Approved by



Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446547-1

Page 1 of 1

Sample Number 2576872-39
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 25 - Oct 26, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	58.5	91.3	42.3
02:00 PM - 03:00 PM	49.1	80.9	40.3
03:00 PM - 04:00 PM	48.8	74.6	38.6
04:00 PM - 05:00 PM	44.1	75.4	40.0
05:00 PM - 06:00 PM	47.3	72.3	43.9
06:00 PM - 07:00 PM	55.4	69.2	52.5
07:00 PM - 08:00 PM	55.6	63.4	53.1
08:00 PM - 09:00 PM	52.1	60.7	47.2
09:00 PM - 10:00 PM	51.8	58.9	48.9
10:00 PM - 11:00 PM	50.7	60.7	45.3
11:00 PM - 12:00 AM	47.1	56.3	43.4
12:00 AM - 01:00 AM	49.2	68.1	42.7
01:00 AM - 02:00 AM	48.5	59.0	46.1
02:00 AM - 03:00 AM	44.3	53.2	42.9
03:00 AM - 04:00 AM	48.9	68.1	47.2
04:00 AM - 05:00 AM	49.0	66.4	47.3
05:00 AM - 06:00 AM	51.4	72.6	45.9
06:00 AM - 07:00 AM	47.2	74.5	43.1
07:00 AM - 08:00 AM	53.0	77.7	48.5
08:00 AM - 09:00 AM	57.0	74.8	53.2
09:00 AM - 10:00 AM	54.0	67.3	48.9
10:00 AM - 11:00 AM	51.8	77.8	43.1
11:00 AM - 12:00 PM	50.0	74.4	40.1
12:00 PM - 01:00 PM	50.9	79.5	39.2

Leq Average 24 hrs. (dB(A)) 52.2
Lmax (dB(A)) 91.3
L90 (dB(A)) 43.9
Ldn (dB(A)) 56.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446548-1

Page 1 of 1

Sample Number 2576872-40
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 26 - Oct 27, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	48.3	69.4	39.6
02:00 PM - 03:00 PM	46.3	68.0	38.0
03:00 PM - 04:00 PM	48.1	70.0	39.8
04:00 PM - 05:00 PM	45.2	77.6	38.1
05:00 PM - 06:00 PM	63.8	87.0	59.6
06:00 PM - 07:00 PM	55.4	81.0	52.5
07:00 PM - 08:00 PM	54.0	68.9	52.8
08:00 PM - 09:00 PM	52.1	61.1	47.2
09:00 PM - 10:00 PM	51.6	60.6	47.0
10:00 PM - 11:00 PM	52.1	63.0	46.5
11:00 PM - 12:00 AM	52.3	63.5	45.0
12:00 AM - 01:00 AM	51.4	60.8	44.1
01:00 AM - 02:00 AM	48.8	60.8	43.0
02:00 AM - 03:00 AM	53.9	62.7	44.3
03:00 AM - 04:00 AM	53.1	72.0	47.9
04:00 AM - 05:00 AM	50.8	71.6	47.3
05:00 AM - 06:00 AM	54.6	74.0	47.8
06:00 AM - 07:00 AM	50.8	74.9	44.5
07:00 AM - 08:00 AM	52.4	81.5	45.0
08:00 AM - 09:00 AM	53.4	71.6	50.4
09:00 AM - 10:00 AM	56.8	71.9	52.5
10:00 AM - 11:00 AM	58.5	77.0	53.3
11:00 AM - 12:00 PM	54.8	64.9	48.5
12:00 PM - 01:00 PM	50.2	71.8	40.1

Leq Average 24 hrs. (dB(A)) 54.7
Lmax (dB(A)) 87.0
L90 (dB(A)) 46.5
Ldn (dB(A)) 59.3

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



Saranya Chalermthamrong
Scientist (4)

Approved by



Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446549-1

Page 1 of 1

Sample Number 2576872-41
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 27 - Oct 28, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	55.4	71.0	49.6
02:00 PM - 03:00 PM	55.3	69.5	49.4
03:00 PM - 04:00 PM	54.8	73.3	49.2
04:00 PM - 05:00 PM	56.6	77.3	50.1
05:00 PM - 06:00 PM	52.5	76.1	47.4
06:00 PM - 07:00 PM	55.2	66.7	50.7
07:00 PM - 08:00 PM	50.3	63.6	47.2
08:00 PM - 09:00 PM	47.8	59.3	45.8
09:00 PM - 10:00 PM	48.4	58.6	46.6
10:00 PM - 11:00 PM	46.7	58.6	44.0
11:00 PM - 12:00 AM	46.2	58.1	43.0
12:00 AM - 01:00 AM	50.0	62.3	44.9
01:00 AM - 02:00 AM	50.3	63.7	45.3
02:00 AM - 03:00 AM	51.5	71.9	46.3
03:00 AM - 04:00 AM	48.3	67.5	44.9
04:00 AM - 05:00 AM	50.2	68.8	47.5
05:00 AM - 06:00 AM	52.4	74.0	46.0
06:00 AM - 07:00 AM	53.1	86.4	43.3
07:00 AM - 08:00 AM	50.7	80.7	45.5
08:00 AM - 09:00 AM	56.5	73.9	50.1
09:00 AM - 10:00 AM	53.5	80.5	45.5
10:00 AM - 11:00 AM	53.4	73.0	48.2
11:00 AM - 12:00 PM	50.9	76.5	43.8
12:00 PM - 01:00 PM	50.4	72.7	42.6

Leq Average 24 hrs. (dB(A)) 52.6
Lmax (dB(A)) 86.4
L90 (dB(A)) 46.0
Ldn (dB(A)) 57.4

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot Salamteh
Section Head



Analysis / Test Report

Client : Gulf Chana Green Co., Ltd.
Moo 3, Ku Sub-District, Chana District, Songkhla Thailand 90130
P/O : 4230124013
Project Name :
Project Location : GCG

Lot ID: 2576872

Date Received : Nov 01, 2025
Date Reported : Nov 10, 2025
Report Number: 3446550-1

Page 1 of 1

Sample Number 2576872-42
Parameter Noise (Leq 24 hrs.)
Location N6 บ้านใกล้เคียงโครงการ(ใกล้จุดสูบน้ำ/จุดทิ้งน้ำของโครงการ) (GPS 47N 691129, 757405)
Measurement Date Oct 28 - Oct 29, 2025
Measurement by Yongsil Rangsee
Sound Level meter Serial No. 1173616

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	50.9	70.4	45.1
02:00 PM - 03:00 PM	49.1	72.0	42.8
03:00 PM - 04:00 PM	53.5	75.2	46.2
04:00 PM - 05:00 PM	49.5	69.6	44.2
05:00 PM - 06:00 PM	45.8	72.9	40.4
06:00 PM - 07:00 PM	49.6	71.6	46.3
07:00 PM - 08:00 PM	48.8	62.4	46.7
08:00 PM - 09:00 PM	46.9	61.6	44.7
09:00 PM - 10:00 PM	47.3	52.8	45.9
10:00 PM - 11:00 PM	45.0	55.8	43.9
11:00 PM - 12:00 AM	44.2	55.5	42.7
12:00 AM - 01:00 AM	45.9	56.9	41.9
01:00 AM - 02:00 AM	44.4	61.7	42.9
02:00 AM - 03:00 AM	46.9	70.5	43.6
03:00 AM - 04:00 AM	45.5	70.0	43.5
04:00 AM - 05:00 AM	47.1	69.9	44.0
05:00 AM - 06:00 AM	53.5	73.1	45.2
06:00 AM - 07:00 AM	47.5	71.6	43.9
07:00 AM - 08:00 AM	51.4	78.2	42.6
08:00 AM - 09:00 AM	47.8	75.7	40.1
09:00 AM - 10:00 AM	59.6	89.0	54.0
10:00 AM - 11:00 AM	52.6	69.3	49.5
11:00 AM - 12:00 PM	53.3	65.9	49.2
12:00 PM - 01:00 PM	49.5	62.6	47.5

Leq Average 24 hrs. (dB(A)) 50.9
Lmax (dB(A)) 89.0
L90 (dB(A)) 44.0
Ldn (dB(A)) 55.2

Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management



Saranya Chalermthamrong
Scientist (4)

Approved by



Supot Salamteh
Section Head