

ภาคผนวก ก

เอกสารประกอบการปฏิบัติตาม
มาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ก.1

ผลการตรวจสอบความถูกต้องของ CEMS ประจำปี พ.ศ. 2568

Relative Accuracy Determination for CEMS B. Grimm Power (Angthong) 2 Co., Ltd. (BPAT2) : HRSG 22

DATE March 18,2025

Run No.	Time		O2			NOx			CO		
	Start	End	%			ppm@7% O ₂			ppm@7% O ₂		
			RM	CEMS	Diff(d _i)	RM	CEMS	Diff(d _i)	RM	CEMS	Diff(d _i)
1	11:20 AM	11:40 AM	14.27	14.27	0.00	40.82	38.74	2.08	0.52	0.00	0.52
2	11:41 AM	12:01 PM	14.28	14.23	0.05	40.61	38.43	2.18	0.36	0.00	0.36
3	12:02 PM	12:22 PM	14.42	14.44	-0.02	48.95	48.20	0.75	0.24	0.00	0.24
4	12:23 PM	12:43 PM	14.61	14.60	0.01	61.35	58.31	3.03	0.04	0.00	0.04
5	1:05 PM	1:25 PM	14.48	14.27	0.21	53.43	38.74	14.69	0.13	0.00	0.13
6	1:26 PM	1:46 PM	14.26	14.23	0.03	40.28	38.43	1.85	0.10	0.00	0.10
7	1:47 PM	2:07 PM	14.27	14.44	-0.17	40.71	48.20	-7.48	0.06	0.00	0.06
8	2:08 PM	2:28 PM	14.28	14.60	-0.32	40.69	58.31	-17.62	0.27	0.00	0.27
9	2:50 PM	3:10 PM	14.29	14.20	0.09	41.01	38.61	2.40	0.38	0.00	0.38
10	3:11 PM	3:31 PM	14.29	14.20	0.09	40.99	38.67	2.31	0.36	0.00	0.36
11	3:32 PM	3:52 PM	14.28	14.20	0.08	41.05	38.82	2.23	0.48	0.00	0.48
12	3:53 PM	4:13 PM	14.27	14.20	0.07	41.53	39.17	2.36	0.40	0.00	0.40
Average			14.33	14.32	0.01	44.28	43.55	0.73	0.28	0.00	0.28
Confidence Coefficient			-			4.7695			0.1039		
Relative Accuracy			0.01			12.42			0.06		
Performance Specification : RA			1%			20% **			5% ***		

* Instrumental RM and CEMS data are on a consistent basis, that is, dry and actual oxygen.

** 20 % of RM value for NOx

*** 5% of Emission Standard value 690 ppmvd@7%O₂ for CO

Relative Accuracy Determination for CEMS B. Grimm Power (Angthong) 2 Co., Ltd. (BPAT2) : HRSG 21

DATE

March 18,2025

Run No.	Time		O2			NOx			CO		
	Start	End	%			ppm@7% O ₂			ppm@7% O ₂		
			RM	CEMS	Diff(d _i)	RM	CEMS	Diff(d _i)	RM	CEMS	Diff(d _i)
1	11:20 AM	11:40 AM	13.91	14.20	-0.29	40.43	38.92	1.51	1.21	0.00	1.21
2	11:41 AM	12:01 PM	13.92	14.20	-0.28	40.90	38.80	2.11	1.08	0.00	1.08
3	12:02 PM	12:22 PM	14.19	14.42	-0.23	46.57	46.55	0.02	0.85	0.00	0.85
4	12:23 PM	12:43 PM	14.41	14.60	-0.19	57.31	56.57	0.74	0.56	0.00	0.56
5	1:05 PM	1:25 PM	14.26	14.40	-0.14	52.17	47.35	4.82	0.63	0.00	0.63
6	1:26 PM	1:46 PM	14.07	14.20	-0.13	42.07	37.72	4.35	0.92	0.00	0.92
7	1:47 PM	2:07 PM	14.03	14.20	-0.17	42.75	38.28	4.48	0.81	0.00	0.81
8	2:08 PM	2:28 PM	14.03	14.20	-0.17	42.87	38.01	4.87	0.95	0.00	0.95
9	2:50 PM	3:10 PM	14.07	14.20	-0.13	43.78	38.44	5.33	0.96	0.00	0.96
10	3:11 PM	3:31 PM	14.04	14.20	-0.16	43.40	38.48	4.92	0.93	0.00	0.93
11	3:32 PM	3:52 PM	14.08	14.20	-0.12	43.94	38.88	5.06	0.92	0.00	0.92
12	3:53 PM	4:13 PM	14.08	14.20	-0.12	44.74	39.29	5.44	0.79	0.00	0.79
Average			14.09	14.27	-0.18	45.08	41.44	3.64	0.88	0.00	0.88
Confidence Coefficient			-			1.2455			0.1127		
Relative Accuracy			0.18			10.83			0.14		
Performance Specification : RA			1%			20% **			5% ***		

* Instrumental RM and CEMS data are on a consistent basis, that is, dry and actual oxygen.

** 20 % of RM value for NOx

*** 5% of Emission Standard value 690 ppmvd@7%O₂ for CO

ภาคผนวก ก.2

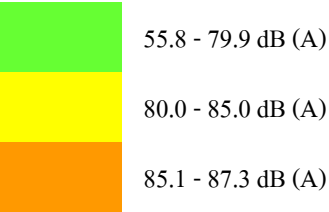
แผนผังแสดงระดับเสียง (Noise Contour Map) ประจำปี พ.ศ. 2567

Noise Contour Map

B.Grimm Power (Angthong) 2 Limited.



Remark :



Total Measured Point = 889 points
Minimum = 55.8 dB(A)
Maximum = 87.3 dB(A)
Average = 71.1 dB(A)
Measuring Date : May 27-29, 2024

ภาคผนวก ค.3

ผลการตรวจวัดคุณภาพน้ำทิ้งแบบต่อเนื่อง (Online Monitoring)

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
1-Jan-25	-	-	-	-	-	-
2-Jan-25	-	-	-	-	-	-
3-Jan-25	7.49	1,095	23.50	8.57	446	30.0
4-Jan-25	7.62	1,176	23.30	8.21	486	29.3
5-Jan-25	-	-	-	7.41	347	28.9
6-Jan-25	7.60	1,189	22.70	7.76	443	28.2
7-Jan-25	-	-	-	-	-	-
8-Jan-25	7.65	1,192	23.00	8.03	382	29.2
9-Jan-25	-	-	-	-	-	-
10-Jan-25	7.65	2,067	23.80	8.59	400	30.1
11-Jan-25	7.53	1,109	24.00	8.39	278	24.0
12-Jan-25	7.84	1,075	21.10	8.61	392	26.4
13-Jan-25	7.53	1,102	21.00	8.80	254	26.0
14-Jan-25	-	-	-	-	-	-
15-Jan-25	7.82	1,094	21.70	8.84	369	26.8
16-Jan-25	-	-	-	-	-	-
17-Jan-25	7.52	1,175	22.70	8.55	318	27.7
18-Jan-25	7.51	1,166	22.40	8.14	318	28.9
19-Jan-25	7.71	1,172	23.00	-	-	-
20-Jan-25	7.71	1,172	23.20	8.40	372	29.3
21-Jan-25	-	-	-	-	-	-
22-Jan-25	7.78	1,185	24.10	8.38	355	30.4
23-Jan-25	-	-	-	-	-	-
24-Jan-25	7.92	1,185	25.20	7.64	270	32.8
25-Jan-25	7.42	1,232	25.00	7.98	190	32.0
26-Jan-25	7.73	1,173	25.40	8.13	203	31.4
27-Jan-25	7.73	1,238	24.40	7.65	277	30.9
28-Jan-25	-	-	-	-	-	-
29-Jan-25	7.61	1,199	22.90	7.44	254	27.5
30-Jan-25	-	-	-	-	-	-
31-Jan-25	7.69	1,175	23.90	7.94	302	29.5
MIN	7.42	1,075	21.00	7.41	190	24.00
MAX	7.92	2,067	25.40	8.84	486	32.80
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
1-Feb-25	7.70	1,178	24.30	8.60	311	29.5
2-Feb-25	7.50	1,215	25.70	7.41	216	31.0
3-Feb-25	7.46	1,198	26.50	8.29	301	31.0
4-Feb-25	-	-	-	-	-	-
5-Feb-25	7.88	1,172	26.50	7.35	274	32.9
6-Feb-25	-	-	-	-	-	-
7-Feb-25	7.58	1,209	26.60	7.75	284	31.7
8-Feb-25	7.79	1,198	27.00	8.73	234	33.8
9-Feb-25	8.01	1,173	24.60	7.88	348	30.0
10-Feb-25	8.13	1,129	23.30	7.63	305	29.2
11-Feb-25	-	-	-	-	-	-
12-Feb-25	-	-	-	-	-	-
13-Feb-25	8.08	1,181	25.70	8.66	267	31.70
14-Feb-25	8.13	1,158	26.10	8.39	224	31.7
15-Feb-25	8.05	1,158	26.90	7.93	301	32.5
16-Feb-25	7.64	1,191	27.60	7.74	220	33.6
17-Feb-25	7.76	1,185	28.00	7.32	234	28.4
18-Feb-25	-	-	-	-	-	-
19-Feb-25	8.24	1,151	27.90	8.49	324	32.8
20-Feb-25	-	-	-	-	-	-
21-Feb-25	7.88	1,178	28.20	7.33	380	28.4
22-Feb-25	7.93	1,148	28.00	7.58	183	32.9
23-Feb-25	8.13	1,124	28.00	7.26	234	33.0
24-Feb-25	7.64	1,152	27.20	-	-	-
25-Feb-25	-	-	-	-	-	-
26-Feb-25	7.89	1,094	25.90	8.49	250	30.5
27-Feb-25	-	-	-	-	-	-
28-Feb-25	7.92	1,198	27.40	6.97	324	30.7
MIN	7.46	1,094	23.30	6.97	183	28.40
MAX	8.24	1,215	28.20	8.73	380	33.80
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
1-Mar-25	7.89	1,208	28.20	7.25	385	32.5
2-Mar-25	-	-	-	-	-	-
3-Mar-25	7.88	1,148	28.70	-	-	-
4-Mar-25	-	-	-	-	-	-
5-Mar-25	8.04	1,151	28.40	7.53	231	32.3
6-Mar-25	-	-	-	-	-	-
7-Mar-25	7.58	1,209	26.60	7.75	284	31.7
8-Mar-25	8.26	1,145	27.20	7.60	315	30.6
9-Mar-25	-	-	-	-	-	-
10-Mar-25	7.96	1,154	27.20	7.37	301	31.7
11-Mar-25	-	-	-	-	-	-
12-Mar-25	7.89	1,397	28.70	7.52	190	32.4
13-Mar-25	-	-	-	-	-	-
14-Mar-25	7.94	1,178	28.50	7.70	253	32.8
15-Mar-25	7.81	1,191	29.40	-	-	-
16-Mar-25	-	-	-	-	-	-
17-Mar-25	7.88	1,161	29.30	8.33	247	34.0
18-Mar-25	-	-	-	-	-	-
19-Mar-25	7.76	1,145	27.00	7.80	207	31.7
20-Mar-25	-	-	-	-	-	-
21-Mar-25	7.70	1,152	24.10	7.51	302	28.4
22-Mar-25	7.86	1,097	24.50	8.80	214	28.4
23-Mar-25	7.67	1,151	24.70	8.41	237	28.3
25-Mar-25	-	-	-	-	-	-
26-Mar-25	7.68	1,121	27.80	7.13	186	31.5
27-Mar-25	-	-	-	-	-	-
28-Mar-25	-	-	-	-	-	-
29-Mar-25	-	-	-	-	-	-
30-Mar-25	7.82	1,168	28.00	7.59	337	32.0
31-Mar-25	7.90	1,262	28.30	8.54	469	32.2
MIN	7.58	1,097	24.10	7.13	186	28.30
MAX	8.26	1,397	29.40	8.80	469	34.00
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
1-Apr-25	-	-	-	-	-	-
2-Apr-25	8.24	974	28.80	7.52	315	32.4
3-Apr-25	-	-	-	-	-	-
4-Apr-25	7.46	1,128	28.90	7.77	318	32.7
5-Apr-25	7.29	1,197	32.00	-	-	-
7-Apr-25	7.93	1,138	29.00	-	-	-
9-Apr-25	8.03	1,094	30.20	8.75	276	32.6
10-Apr-25	-	-	-	-	-	-
11-Apr-25	7.86	1,071	29.90	-	-	-
13-Apr-25	7.34	1,154	30.20	-	-	-
14-Apr-25	7.21	1,128	29.00	-	-	-
15-Apr-25	7.43	1,084	29.00	-	-	-
16-Apr-25	-	-	-	-	-	-
17-Apr-25	-	-	-	-	-	-
18-Apr-25	-	-	-	-	-	-
19-Apr-25	8.19	1,054	30.00	-	-	-
20-Apr-25	7.95	1,024	30.00	-	-	-
21-Apr-25	8.14	1,097	29.90	7.93	280	37.4
22-Apr-25	-	-	-	-	-	-
23-Apr-25	7.78	1,107	30.20	7.52	267	35.2
24-Apr-25	7.81	1,067	31.20	-	-	-
25-Apr-25	7.81	1,067	31.20	7.77	257	36.4
26-Apr-25	7.68	1,113	30.00	-	-	-
28-Apr-25	7.36	1,135	30.10	8.04	112	35.5
29-Apr-25	-	-	-	-	-	-
30-Apr-25	7.74	1,135	29.20	8.04	257	35.1
MIN	7.21	974	28.80	7.52	112	32.40
MAX	8.24	1,197	32.00	8.75	318	37.40
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
5-May-25	7.70	1,090	30.00	-	-	-
6-May-25	-	-	-	-	-	-
7-May-25	7.61	1,112	30.70	7.59	274	34.6
8-May-25	-	-	-	-	-	-
9-May-25	7.95	1,074	30.20	8.58	260	34.1
10-May-25	7.73	1,117	30.40	-	-	-
11-May-25	8.05	1,078	29.00	-	-	-
13-May-25	-	-	-	-	-	-
14-May-25	7.92	1,087	29.50	7.18	324	33.5
15-May-25	-	-	-	-	-	-
16-May-25	8.07	1,025	28.70	-	-	-
17-May-25	8.73	1,061	29.70	-	-	-
18-May-25	8.05	1,065	28.90	-	-	-
19-May-25	8.13	1,058	30.40	-	-	-
20-May-25	-	-	-	-	-	-
21-May-25	8.24	1,078	30.70	8.10	435	34.0
22-May-25	-	-	-	-	-	-
23-May-25	8.16	1,071	29.80	8.29	150	33.4
26-May-25	8.11	1,064	29.40	8.59	247	33.2
28-May-25	8.12	1,064	30.30	8.59	247	30.1
30-May-25	8.02	1,037	29.90	8.15	196	32.6
MIN	7.61	1,025	28.70	7.18	150	30.10
MAX	8.73	1,117	30.70	8.59	435	34.60
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT2			Retentionn Pit - BPAT2		
	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)	pH (on-line)	Conductivity (on-line) (us/cm)	Temp. (on-line) (°C)
4-Jun-25	8.16	1,048	28.80	8.04	179	33.9
6-Jun-25	8.05	1,101	30.00	7.42	216	34.0
9-Jun-25	8.12	1,047	30.00	7.85	281	35.2
11-Jun-25	8.33	1,044	29.70	7.67	129	33.7
12-Jun-25	-	-	-	-	-	-
13-Jun-25	8.18	1,055	29.10	8.74	351	33.4
16-Jun-25	8.08	1,071	28.60	7.70	401	33.6
18-Jun-25	7.61	1,271	29.00	7.76	347	34.2
20-Jun-25	8.19	1,047	29.20	7.91	193	34.0
23-Jun-25	8.25	1,044	28.40	7.92	304	34.1
25-Jun-25	8.18	1,058	29.70	8.06	203	34.5
27-Jun-25	8.34	1,034	29.90	8.91	217	34.3
30-Jun-25	8.16	1,010	28.20	8.63	446	32.8
MIN	7.61	1,010	28.20	7.42	129	32.80
MAX	8.34	1,271	30.00	8.91	446	35.20
IEAT STD	5.5-9.0	-	45.00	5.5-9.0	-	45.00
RID STD	6.5-8.5	-	40.00	6.5-8.5	-	40.00