

ภาคผนวก ก

เอกสารประกอบการปฏิบัติตาม
มาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ก.1

ผลการตรวจสอบความถูกต้องของ CEMS ประจำปี พ.ศ. 2568

Relative Accuracy Determination for CEMS B. Grimm Power (Angthong) 3 Co., Ltd. (BPAT3) : HRSG 31

DATE March 17,2025

Run No.	Time		O ₂			NO _x			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	11:30 AM	11:50 AM	13.91	14.20	-0.29	39.15	39.94	-0.78	0.93	0.21	0.73
2	11:51 AM	12:11 PM	13.91	14.21	-0.30	39.59	40.49	-0.90	0.86	0.25	0.61
3	12:12 PM	12:32 PM	14.27	14.60	-0.33	49.23	52.51	-3.28	0.36	0.00	0.36
4	12:33 PM	12:53 PM	14.27	14.60	-0.33	51.72	53.79	-2.07	0.27	0.00	0.27
5	1:15 PM	1:35 PM	13.93	14.22	-0.29	40.54	40.37	0.18	0.60	0.29	0.31
6	1:36 PM	1:56 PM	13.90	14.20	-0.30	39.48	40.54	-1.06	0.68	0.37	0.30
7	1:57 PM	2:17 PM	13.97	14.20	-0.23	39.57	40.60	-1.03	0.64	0.35	0.29
8	2:18 PM	2:38 PM	13.98	14.20	-0.22	39.71	41.14	-1.43	0.58	0.33	0.25
9	3:00 PM	3:20 PM	13.99	14.20	-0.21	39.99	41.45	-1.46	0.56	0.33	0.23
10	3:21 PM	3:41 PM	13.99	14.20	-0.21	39.71	40.93	-1.22	0.52	0.37	0.15
11	3:42 PM	4:02 PM	13.99	14.20	-0.21	38.96	40.52	-1.55	0.46	0.29	0.17
12	4:03 PM	4:23 PM	13.99	14.20	-0.21	38.38	39.94	-1.56	0.42	0.25	0.17
Average			14.01	14.27	-0.26	41.34	42.68	-1.35	0.57	0.25	0.32
Confidence Coefficient			-			0.5216			0.1113		
Relative Accuracy			0.26			4.52			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 NO_x

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

Relative Accuracy Determination for CEMS B. Grimm Power (Angthong) 3 Co., Ltd. (BPAT3) : HRSG 32

DATE

March 17,2025

Run No.	Time		O ₂			NO _x			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	11:30 AM	11:50 AM	14.34	14.32	0.02	44.67	44.91	-0.24	0.89	1.10	-0.21
2	11:51 AM	12:11 PM	14.37	14.30	0.07	45.38	45.47	-0.09	0.68	1.10	-0.41
3	12:12 PM	12:32 PM	14.72	14.70	0.02	53.51	54.01	-0.50	0.22	0.63	-0.40
4	12:33 PM	12:53 PM	14.77	14.70	0.07	55.26	54.75	0.51	0.11	0.67	-0.56
5	1:15 PM	1:35 PM	14.47	14.31	0.16	45.61	44.57	1.04	0.30	1.12	-0.82
6	1:36 PM	1:56 PM	14.42	14.30	0.12	45.43	45.03	0.40	0.36	1.14	-0.77
7	1:57 PM	2:17 PM	14.42	14.30	0.12	45.52	45.05	0.47	0.21	1.10	-0.88
8	2:18 PM	2:38 PM	14.41	14.30	0.11	45.64	45.49	0.15	0.09	1.12	-1.03
9	3:00 PM	3:20 PM	14.43	14.30	0.13	46.32	45.98	0.34	0.04	1.20	-1.16
10	3:21 PM	3:41 PM	14.42	14.30	0.12	45.60	45.36	0.24	0.02	1.14	-1.12
11	3:42 PM	4:02 PM	14.39	14.30	0.09	44.92	44.92	0.00	0.04	1.18	-1.14
12	4:03 PM	4:23 PM	14.37	14.30	0.07	43.98	44.14	-0.17	0.02	1.14	-1.12
Average			14.46	14.37	0.09	46.82	46.64	0.18	0.25	1.05	-0.80
Confidence Coefficient			-			0.2632			0.2112		
Relative Accuracy			0.09			0.95			0.15		
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 NO_x

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

ภาคผนวก ก.2

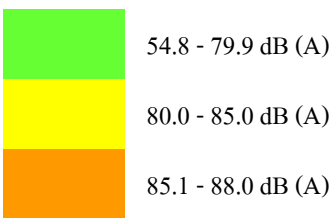
แผนผังแสดงระดับเสียง (Noise Contour Map) ประจำปี พ.ศ. 2567

Noise Contour Map

B.Grimm Power (Angthong) 3 Limited.



Remark :



Total Measured Point = 479 points
Minimum = 54.8 dB(A)
Maximum = 88.0 dB(A)
Average = 72.0 dB(A)
Measuring Date : May 27-29, 2024

ภาคผนวก ค.3

ผลการตรวจวัดคุณภาพน้ำทิ้งแบบต่อเนื่อง (Online Monitoring)

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT3			Retentionn Pit - BPAT3		
	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	7.33	976	27.60	8.33	94	24.70
2-Jan-25	-	-	-	-	-	-
3-Jan-25	7.36	879	27.60	8.83	171	23.90
4-Jan-25	7.33	865	27.60	7.42	245	23.70
5-Jan-25	-	-	-	-	-	-
6-Jan-25	7.32	852	26.00	8.32	107	22.80
7-Jan-25	-	-	-	-	-	-
8-Jan-25	7.52	962	26.90	8.34	147	23.30
9-Jan-25	-	-	-	-	-	-
10-Jan-25	7.47	812	26.80	8.72	184	24.20
11-Jan-25	7.42	771	25.00	7.47	188	23.00
13-Jan-25	7.50	748	23.50	8.94	255	20.50
14-Jan-25	-	-	-	-	-	-
15-Jan-25	7.48	939	24.10	8.56	178	21.80
16-Jan-25	-	-	-	-	-	-
17-Jan-25	7.42	1,003	22.60	8.97	208	23.80
18-Jan-25	7.40	842	25.50	8.10	131	22.80
19-Jan-25	7.37	1,046	27.00	-	-	-
20-Jan-25	7.30	1,046	23.30	7.71	63	24.50
21-Jan-25	-	-	-	-	-	-
22-Jan-25	7.21	1,093	23.70	-	-	-
23-Jan-25	-	-	-	-	-	-
24-Jan-25	7.19	1,096	28.90	7.89	302	25.60
25-Jan-25	7.15	993	28.00	7.96	335	25.00
26-Jan-25	7.17	950	28.60	7.71	339	25.70
27-Jan-25	7.20	955	28.40	8.32	245	24.80
28-Jan-25	-	-	-	-	-	-
29-Jan-25	7.22	822	25.50	8.45	302	23.40
30-Jan-25	-	-	-	-	-	-
31-Jan-25	7.09	1,050	27.10	7.95	258	24.30
MIN	7.09	748	22.60	7.42	63	20.50
MAX	7.52	1,096	28.90	8.97	339	25.70
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 - BPAT3			Retentionn Pit - BPAT3		
	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	7.07	997	27.50	8.83	275	24.80
2-Feb-25	7.50	1,215	25.70	8.61	308	26.10
3-Feb-25	7.46	1,198	26.50	8.96	184	27.00
4-Feb-25	-	-	-	-	-	-
5-Feb-25	7.26	1,043	28.00	8.85	289	25.80
6-Feb-25	-	-	-	-	-	-
7-Feb-25	7.26	1,103	28.70	8.81	302	26.90
8-Feb-25	-	-	-	-	-	-
9-Feb-25	7.40	979	28.20	7.71	369	24.40
10-Feb-25	7.45	1,087	28.00	7.96	241	24.50
11-Feb-25	-	-	-	-	-	-
12-Feb-25	-	-	-	-	-	-
13-Feb-25	7.61	1,592	29.20	8.28	271	26.10
14-Feb-25	7.67	1,607	28.90	7.68	244	26.50
15-Feb-25	7.78	936	29.20	8.79	237	27.20
16-Feb-25	7.82	1,159	30.00	7.82	302	28.00
17-Feb-25	7.86	971	31.40	8.15	252	28.40
18-Feb-25	-	-	-	-	-	-
19-Feb-25	7.81	975	30.40	8.49	167	28.30
20-Feb-25	-	-	-	-	-	-
21-Feb-25	7.98	1,068	31.00	8.60	285	28.70
22-Feb-25	8.15	1,012	30.70	8.70	205	28.50
23-Feb-25	8.01	1,082	31.00	8.10	295	28.00
24-Feb-25	8.21	891	30.90	8.94	118	27.70
25-Feb-25	-	-	-	-	-	-
26-Feb-25	8.19	898	29.40	8.28	101	26.10
27-Feb-25	-	-	-	-	-	-
28-Feb-25	7.87	1,022	30.00	8.06	382	27.80
MIN	7.07	891	25.70	7.68	101	24.40
MAX	8.21	1,607	31.40	8.96	382	28.70
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 - BPAT3			Retentionn Pit - BPAT3		
	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	7.88	1,014	32.00	8.23	134	28.90
2-Mar-25	-	-	-	-	-	-
3-Mar-25	8.00	958	32.60	8.05	288	29.20
4-Mar-25	-	-	-	-	-	-
5-Mar-25	-	-	-	-	-	-
6-Mar-25	-	-	-	-	-	-
7-Mar-25	8.08	955	32.00	7.99	308	29.30
8-Mar-25	8.10	791	30.00	8.45	53	27.20
9-Mar-25	-	-	-	-	-	-
10-Mar-25	7.95	1,015	30.80	8.27	110	27.40
11-Mar-25	-	-	-	-	-	-
12-Mar-25	7.86	991	32.40	8.12	345	29.10
13-Mar-25	-	-	-	-	-	-
14-Mar-25	8.39	984	32.20	8.39	314	29.30
15-Mar-25	7.89	1,039	32.60	8.10	338	29.80
16-Mar-25	-	-	-	-	-	-
17-Mar-25	8.04	1,015	33.90	9.57	251	30.00
18-Mar-25	-	-	-	-	-	-
19-Mar-25	7.85	855	30.80	7.88	215	27.30
20-Mar-25	-	-	-	-	-	-
21-Mar-25	7.49	838	28.50	8.56	117	24.40
22-Mar-25	7.57	887	28.80	9.32	224	24.80
23-Mar-25	7.61	867	29.10	8.29	121	24.90
25-Mar-25	-	-	-	-	-	-
26-Mar-25	8.29	961	31.60	8.41	157	28.90
27-Mar-25	-	-	-	-	-	-
28-Mar-25	-	-	-	-	-	-
29-Mar-25	-	-	-	-	-	-
30-Mar-25	7.88	911	32.00	-	-	-
31-Mar-25	7.64	847	32.10	7.93	207	28.60
MIN	7.49	791	28.50	7.88	53	24.40
MAX	8.39	1,039	33.90	9.57	345	30.00
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 - BPAT3			Retentionn Pit - BPAT3		
	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	32.40	8.83	194	28.90
3-Apr-25	-	-	-	-	-	-
4-Apr-25	7.78	897	32.70	8.25	218	29.20
5-Apr-25	7.62	1,041	32.80	-	-	-
7-Apr-25	8.17	917	32.00	-	-	-
9-Apr-25	7.86	813	32.80	8.90	231	31.10
10-Apr-25	-	-	-	-	-	-
11-Apr-25	7.57	894	33.10	-	-	-
13-Apr-25	7.20	963	33.20	-	-	-
17-Apr-25	-	-	-	-	-	-
18-Apr-25	-	-	-	-	-	-
19-Apr-25	-	-	-	-	-	-
20-Apr-25	-	-	-	-	-	-
21-Apr-25	7.75	954	35.00	7.70	197	30.40
22-Apr-25	-	-	-	-	-	-
23-Apr-25	8.66	884	33.80	7.68	321	30.40
24-Apr-25	-	-	-	-	-	-
25-Apr-25	7.90	752	35.20	7.59	294	31.10
26-Apr-25	8.15	856	35.50	-	-	-
28-Apr-25	7.73	940	33.80	7.55	338	30.21
29-Apr-25	-	-	-	-	-	-
30-Apr-25	7.83	1,290	33.00	8.23	321	30.50
MIN	7.20	752	32.00	7.55	194	28.90
MAX	8.66	1,290	35.50	8.90	338	31.10
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 - BPAT3			Retentionn Pit - BPAT3		
	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-May-25	7.65	823	33.00	-	-	-
2-May-25	7.69	717	33.30	7.92	301	29.50
3-May-25	-	-	-	-	-	-
4-May-25	-	-	-	-	-	-
5-May-25	-	-	-	-	-	-
6-May-25	-	-	-	-	-	-
7-May-25	7.98	813	34.10	7.88	324	31.10
8-May-25	-	-	-	-	-	-
9-May-25	8.19	870	33.40	8.63	337	29.00
10-May-25	7.85	915	34.50	-	-	-
11-May-25	7.95	726	31.80	-	-	-
13-May-25	-	-	-	-	-	-
14-May-25	7.90	910	32.80	8.02	324	29.80
15-May-25	-	-	-	-	-	-
16-May-25	8.97	1,109	31.50	-	-	-
17-May-25	8.19	870	32.60	-	-	-
18-May-25	7.99	767	31.30	-	-	-
19-May-25	7.84	809	34.70	-	-	-
20-May-25	-	-	-	-	-	-
21-May-25	7.77	944	34.40	8.11	248	31.20
22-May-25	-	-	-	-	-	-
23-May-25	7.90	878	33.70	8.80	187	30.00
26-May-25	7.92	810	32.70	8.75	157	30.00
28-May-25	8.08	820	32.70	8.51	127	30.10
30-May-25	7.93	863	34.10	7.36	297	30.40
MIN	7.65	717	31.30	7.36	127	29.00
MAX	8.97	1,109	34.70	8.80	337	31.20
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

Date	Effluence Water Discharge			Waste Water Discharge		
	CT Blowdown Pit - BPAT3			Retentionn Pit - BPAT3		
	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	8.39	891	33.40	8.74	150	29.50
9-Jun-25	8.06	776	34.10	8.45	83	30.20
11-Jun-25	7.98	826	33.00	8.50	270	29.50
13-Jun-25	7.97	890	33.20	8.42	264	29.50
16-Jun-25	8.10	792	33.50	8.55	257	29.70
18-Jun-25	7.94	927	33.30	7.99	314	29.80
20-Jun-25	8.24	803	32.90	9.02	264	29.50
23-Jun-25	7.93	947	33.50	8.51	378	29.20
25-Jun-25	8.16	853	33.70	8.32	96	30.10
27-Jun-25	8.06	880	33.00	7.87	334	29.40
30-Jun-25	8.05	810	31.70	7.95	388	28.50
MIN	7.93	776	31.70	7.87	83	28.50
MAX	8.39	947	34.10	9.02	388	30.20
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