

ภาคผนวก ง

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ความเร็วและทิศทางลม

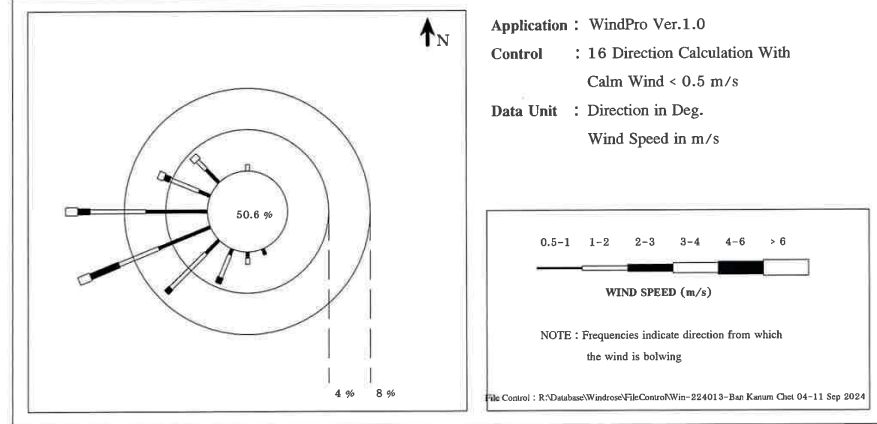


Meteorological Monitoring Results : Wind Rose

MTR-CCE

Location : Ban Kanum Chet Monitor period : 04-11 Sep 2024
 Wind Speed Model : Novalynx WS-25 Serial No : A5092
 Wind Direction Model : Novalynx WS-25 Serial No : A5092

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
S	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SSW	0.0060	0.0238	0.0060	0.0000	0.0000	0.0000	0.0357
SW	0.0179	0.0476	0.0060	0.0000	0.0000	0.0000	0.0714
WSW	0.0536	0.0417	0.0298	0.0119	0.0000	0.0000	0.1369
W	0.0595	0.0536	0.0119	0.0119	0.0000	0.0000	0.1369
WNW	0.0119	0.0298	0.0060	0.0060	0.0000	0.0000	0.0536
NW	0.0179	0.0119	0.0000	0.0060	0.0000	0.0000	0.0357
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.5060						



(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team

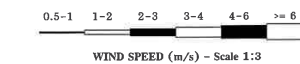


Meteorological Monitoring Results : Wind Rose

MTR-CCE

Location : Ban Kanum Chet Monitor period : 04-11 Sep 2024
 Wind Speed Model : Novalynx WS-25 Serial No : A5092
 Wind Direction Model : Novalynx WS-25 Serial No : A5092

Time	04-05 Sep 2024		05-06 Sep 2024		06-07 Sep 2024		07-08 Sep 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.9	SSW	1.8	W	3.0	WNW	2.2	WSW
11:00 - 12:00	1.2	WSW	2.7	WSW	1.2	SSW	0.6	WSW
12:00 - 13:00	1.3	NW	3.0	WSW	0.2	WNW	1.9	S
13:00 - 14:00	1.3	SW	1.0	WNW	0.8	WSW	1.0	WSW
14:00 - 15:00	1.2	W	1.5	SW	1.2	N	1.0	SW
15:00 - 16:00	1.7	WSW	1.6	SW	1.4	W	0.3	SSW
16:00 - 17:00	0.5	W	2.1	WSW	0.5	W	0.1	SSW
17:00 - 18:00	0.0	SW	0.4	SW	1.7	SSW	0.1	SW
18:00 - 19:00	0.0	SSW	0.9	W	0.0	WSW	0.2	WSW
19:00 - 20:00	0.2	WSW	0.0	WNW	0.3	SW	0.3	SSW
20:00 - 21:00	0.0	WNW	0.0	W	0.2	SW	0.9	W
21:00 - 22:00	0.5	NW	0.0	W	0.0	WSW	0.2	WSW
22:00 - 23:00	0.2	WSW	0.0	W	0.0	WNW	0.7	SSW
23:00 - 24:00	0.0	SW	0.8	W	0.5	W	0.9	W
00:00 - 01:00	0.0	SW	0.0	WNW	0.3	W	0.2	W
01:00 - 02:00	0.1	WSW	0.5	WSW	1.5	W	0.1	W
02:00 - 03:00	0.0	W	0.2	W	0.4	WSW	0.0	S
03:00 - 04:00	0.3	WSW	0.0	SW	1.0	WSW	0.5	W
04:00 - 05:00	0.0	W	0.0	WNW	1.3	SW	0.0	SW
05:00 - 06:00	0.0	W	0.0	WNW	0.0	SW	0.4	SSW
06:00 - 07:00	0.5	WSW	0.8	WSW	1.6	SW	0.8	SW
07:00 - 08:00	1.1	W	0.4	WNW	1.2	SW	1.2	WSW
08:00 - 09:00	1.9	W	0.6	W	1.5	WNW	0.9	WSW
09:00 - 10:00	2.9	WNW	1.9	WNW	1.6	WSW	0.5	WSW



File Control : R:\Database\Windrose\FileControl\Win-224013-Ban Kanum Chet 04-11 Sep 2024

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team

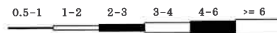


Meteorological Monitoring Results : Wind Rose

MTR-CCE

Location : Ban Kanum Chet Monitor period : 04-11 Sep 2024
 Wind Speed Model : Novalynx WS-25 Serial No : A5092
 Wind Direction Model : Novalynx WS-25 Serial No : A5092

Time	08-09 Sep 2024		09-10 Sep 2024		10-11 Sep 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
10:00 - 11:00	1.8	WNW	2.5	W	2.1	WSW	
11:00 - 12:00	1.7	SW	1.9	WNW	0.9	W	
12:00 - 13:00	1.6	W	3.6	W	3.6	NW	
13:00 - 14:00	0.6	NW	1.3	W	3.1	W	
14:00 - 15:00	2.6	SW	2.3	W	0.4	WNW	
15:00 - 16:00	2.5	WSW	3.1	WSW	0.8	WNW	
16:00 - 17:00	1.9	SSW	0.8	NW	0.1	W	
17:00 - 18:00	0.0	NNW	0.5	WNW	0.0	SW	
18:00 - 19:00	0.1	SSW	0.8	SW	0.9	SW	
19:00 - 20:00	0.7	SSE	0.0	SSW	0.0	WSW	
20:00 - 21:00	0.0	WNW	0.3	SSW	0.0	NE	
21:00 - 22:00	0.1	SSE	0.0	SW	0.0	ESE	
22:00 - 23:00	0.3	WSW	0.0	SW	0.0	SW	
23:00 - 24:00	0.0	WSW	0.0	SW	0.0	SSE	
00:00 - 01:00	0.4	W	0.7	WSW	0.0	SE	
01:00 - 02:00	0.1	WSW	0.0	W	0.0	SW	
02:00 - 03:00	0.0	SW	0.0	WNW	0.0	SSE	
03:00 - 04:00	0.0	WSW	0.0	WNW	0.0	SSE	
04:00 - 05:00	0.0	WSW	0.0	S	0.0	SE	
05:00 - 06:00	0.2	WSW	0.0	W	0.0	SSE	
06:00 - 07:00	1.2	SSW	0.1	SW	0.0	SSE	
07:00 - 08:00	0.0	SSW	0.0	WSW	0.3	WSW	
08:00 - 09:00	1.1	W	0.9	S	0.3	W	
09:00 - 10:00	1.1	WSW	1.6	NW	0.5	WSW	
Wind Rose							



WIND SPEED (m/s) - Scale 1:3

File Control : R:\Database\Windrose\FileControl\Win-224013-Ban Kanum Chet 04-11 Sep 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

คุณภาพอากาศในบรรยากาศ



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKOLNGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013AMBIENT/(Sep)/TSP
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04-11/09/2024
RECEIVED DATE	: 13/09/2024	ANALYTICAL DATE	: 16-19/09/2024
REPORT DATE	: 24/09/2024	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Supakit Tamooka		
LOCATION DESCRIPTION	1. Wat Bowin 2. Wat Yang-ane 3. Ban Hubborn Health Promotion Hospital 4. Ban Khao Hin School 5. Ban Kanum Chet		

PARAMETER	SAMPLING DATE	UNIT	RESULT					STANDARD*	REFERENCE METHOD
			1	2	3	4	5		
TSP (24 hr)	04-05/09/2024	mg/cu.m.	0.025	0.037	0.038	0.015	0.035	0.330	High Volume Air
	05-06/09/2024	mg/cu.m.	0.038	0.033	0.039	0.045	0.036		Sampler/Gravimetric
	06-07/09/2024	mg/cu.m.	0.037	0.043	0.063	0.056	0.029		Method
	07-08/09/2024	mg/cu.m.	0.041	0.038	0.033	0.035	0.027		
	08-09/09/2024	mg/cu.m.	0.030	0.037	0.046	0.025	0.023		
	09-10/09/2024	mg/cu.m.	0.037	0.036	0.059	0.028	0.035		
	10-11/09/2024	mg/cu.m.	0.089	0.042	0.058	0.033	0.030		

Pornapa Budthum

(Miss Pornapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. * Notification of the National Environment Board, No.24, B.E.2547 (2004).



บริษัท ซีคอต จำกัด

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013AMBIENT/(Sep)/PM-10
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04-11/09/2024
RECEIVED DATE	: 13/09/2024	ANALYTICAL DATE	: 16-19/09/2024
REPORT DATE	: 24/09/2024	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Supakit Tamooka		
LOCATION DESCRIPTION	1. Wat Bowin 2. Wat Yang-ane 3. Ban Hubborn Health Promotion Hospital 4. Ban Khao Hin School 5. Ban Kanum Chet		

PARAMETER	SAMPLING DATE	UNIT	RESULT					STANDARD*	REFERENCE METHOD
			1	2	3	4	5		
PM-10 (24 hr)	04-05/09/2024	mg/cu.m.	0.011	0.015	0.027	0.014	0.020	0.120	High Volume Air
	05-06/09/2024	mg/cu.m.	0.014	0.012	0.027	0.023	0.023		Sampler (Hi-Vol PM-10
	06-07/09/2024	mg/cu.m.	0.023	0.025	0.032	0.025	0.026		Size Selective Inlet)/
	07-08/09/2024	mg/cu.m.	0.020	0.017	0.021	0.016	0.022		Gravimetric Method
	08-09/09/2024	mg/cu.m.	0.017	0.019	0.034	0.018	0.021		
	09-10/09/2024	mg/cu.m.	0.021	0.023	0.039	0.019	0.028		
	10-11/09/2024	mg/cu.m.	0.046	0.026	0.036	0.020	0.023		

Pornapa Budthum

(Miss Pornapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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Ambient Air Monitoring Results : Nitrogen dioxide MTR-CCE

Location : Ban Hubborn Health Promotion Hospital Monitor Period : 04-11 Sep 2024
Analyzer Model : API 200A Station No : SS2-01
Serial No : 2365 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	NO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
11:00 - 12:00	7.2	7.4	6.1	10.4	11.8	13.2	16.2
12:00 - 13:00	6.1	5.3	5.7	16.1	8.3	12.9	18.4
13:00 - 14:00	5.7	4.3	9.0	12.0	9.3	16.8	8.2
14:00 - 15:00	9.0	11.7	6.9	12.5	13.2	11.2	4.8
15:00 - 16:00	6.9	12.8	16.8	12.7	14.2	13.6	5.0
16:00 - 17:00	10.3	7.4	11.2	9.6	10.7	16.3	8.9
17:00 - 18:00	9.2	9.2	13.6	12.3	15.3	12.4	7.2
18:00 - 19:00	10.2	9.7	15.3	14.7	9.6	12.6	5.4
19:00 - 20:00	7.7	7.4	17.6	16.6	10.6	9.7	5.1
20:00 - 21:00	6.8	6.4	19.4	13.5	9.8	10.6	9.0
21:00 - 22:00	7.9	3.4	15.3	10.0	9.6	8.5	6.9
22:00 - 23:00	5.3	3.8	11.3	7.3	1.9	9.5	6.3
23:00 - 00:00	4.2	3.5	10.7	4.2	2.0	7.3	4.4
00:00 - 01:00	4.8	3.7	18.1	4.6	6.3	5.2	7.8
01:00 - 02:00	5.8	4.2	4.7	4.8	5.2	2.3	9.0
02:00 - 03:00	6.3	4.9	3.4	4.2	4.8	2.2	7.9
03:00 - 04:00	6.9	7.3	3.5	6.0	3.5	2.2	8.6
04:00 - 05:00	6.1	4.2	2.9	2.3	2.8	3.8	5.3
05:00 - 06:00	11.2	4.8	3.4	5.9	1.9	4.8	7.4
06:00 - 07:00	8.7	17.6	2.8	16.7	2.3	3.0	5.0
07:00 - 08:00	9.4	19.4	3.1	15.4	2.1	3.6	17.4
08:00 - 09:00	11.3	15.3	6.4	2.9	8.5	2.0	12.3
09:00 - 10:00	9.8	11.3	6.4	11.2	10.4	15.7	11.2
10:00 - 11:00	8.5	10.7	9.6	11.4	12.4	14.2	11.6
Average-24Hr*	7.7	8.2	9.3	9.9	7.8	8.9	8.7
Max-1Hr	11.3	19.4	19.4	16.7	15.3	16.8	18.4
Min-1Hr	4.2	3.4	2.8	2.3	1.9	2.0	4.4
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-CCE

Location : Ban Khao Hin School Monitor Period : 04-11 Sep 2024
Analyzer Model : API 200A Station No : Shelter 18
Serial No : 1523 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	NO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
12:00 - 13:00	1.8	0.7	7.2	2.6	3.5	4.2	11.9
13:00 - 14:00	2.6	1.6	6.2	3.2	3.4	8.6	10.8
14:00 - 15:00	4.0	2.5	10.5	6.9	4.7	7.4	3.3
15:00 - 16:00	3.4	3.3	9.4	0.9	1.6	1.1	2.5
16:00 - 17:00	4.6	1.1	5.2	8.8	0.9	1.1	3.3
17:00 - 18:00	5.0	3.2	4.7	9.3	8.8	1.2	1.1
18:00 - 19:00	4.6	1.7	5.6	2.8	9.3	1.3	3.2
19:00 - 20:00	6.8	0.8	2.1	1.9	2.8	2.1	1.7
20:00 - 21:00	3.9	3.7	3.5	2.1	1.9	1.9	0.8
21:00 - 22:00	3.7	2.9	7.9	5.4	2.1	1.5	3.7
22:00 - 23:00	3.6	6.7	4.2	1.4	5.4	2.7	2.9
23:00 - 00:00	2.9	2.1	3.1	1.4	1.4	1.8	6.7
00:00 - 01:00	2.3	0.9	4.3	3.1	1.4	2.7	2.1
01:00 - 02:00	3.7	2.9	2.7	4.3	1.5	2.2	0.9
02:00 - 03:00	3.7	2.9	2.4	2.7	0.9	1.9	2.9
03:00 - 04:00	4.2	2.2	2.0	2.4	0.9	1.3	2.9
04:00 - 05:00	3.7	1.9	6.6	2.0	2.5	1.4	2.2
05:00 - 06:00	3.9	1.3	1.5	6.6	1.2	1.2	1.9
06:00 - 07:00	3.6	2.1	7.4	1.5	4.3	9.7	9.0
07:00 - 08:00	3.5	1.9	6.2	2.2	4.8	13.7	5.8
08:00 - 09:00	3.6	1.5	6.9	2.4	7.0	6.1	6.5
09:00 - 10:00	4.0	3.2	5.2	8.2	6.3	4.9	1.5
10:00 - 11:00	2.8	3.5	2.8	5.0	4.7	4.6	3.2
11:00 - 12:00	1.1	6.3	2.5	10.6	10.2	4.6	3.0
Average-24Hr*	3.6	2.5	5.0	4.1	3.8	3.7	3.9
Max-1Hr	6.8	6.7	10.5	10.6	10.2	13.7	11.9
Min-1Hr	1.1	0.7	1.5	0.9	0.9	1.1	0.8
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-CCE

Location : Ban Kanum Chet		Monitor Period : 04-11 Sep 2024					
Analyzer Model : API 200AU		Station No : Shelter 16					
Serial No : 144		Site Operator : Mr.Supakit Tamooka					
Calibrator Model : Teledyne 700E		Serial No : 587					
Calibration Gas Cylinder I.D.: EB0102326							
Certified Date : 04 Jan 2024		Cal Concentration (ppb) : 0,100,200,400					
Expire Date : 03 Jan 2025							
Time	NO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
10:00 - 11:00	17.5	18.8	21.9	10.3	17.1	18.4	9.3
11:00 - 12:00	18.2	19.7	19.6	10.4	15.5	14.3	9.4
12:00 - 13:00	13.7	19.5	17.4	12.0	12.2	11.8	8.2
13:00 - 14:00	11.7	21.5	14.0	11.8	11.3	9.6	8.5
14:00 - 15:00	10.6	19.7	17.6	14.4	12.2	8.5	8.8
15:00 - 16:00	8.1	15.3	10.1	16.0	12.6	8.3	8.4
16:00 - 17:00	8.4	11.6	10.9	12.4	12.2	8.2	8.0
17:00 - 18:00	9.2	24.4	9.5	5.8	9.9	11.4	8.3
18:00 - 19:00	9.0	12.9	12.1	13.9	10.8	13.6	8.5
19:00 - 20:00	9.4	14.4	12.5	18.8	13.6	13.9	11.2
20:00 - 21:00	11.4	26.0	12.5	10.6	13.5	13.3	10.0
21:00 - 22:00	9.9	21.5	5.4	11.5	6.5	12.9	10.9
22:00 - 23:00	5.6	10.5	6.9	8.5	5.0	11.9	9.8
23:00 - 00:00	4.8	4.6	5.7	6.8	8.0	6.0	4.6
00:00 - 01:00	5.3	3.6	7.6	1.7	7.0	7.5	3.6
01:00 - 02:00	6.1	4.9	5.9	2.3	2.6	10.6	4.9
02:00 - 03:00	6.3	7.8	5.5	4.9	6.8	11.6	7.8
03:00 - 04:00	6.4	9.5	5.6	5.7	5.1	12.0	9.5
04:00 - 05:00	6.4	19.6	10.9	9.4	11.5	8.8	5.5
05:00 - 06:00	4.4	12.5	19.8	9.2	12.4	5.2	6.9
06:00 - 07:00	9.7	8.6	23.3	10.4	22.7	4.9	5.0
07:00 - 08:00	10.3	19.9	14.9	10.9	21.3	13.8	8.4
08:00 - 09:00	19.3	13.7	11.8	16.6	13.0	8.8	16.1
09:00 - 10:00	21.9	27.0	10.9	7.0	17.1	9.9	11.1
Average-24Hr*	10.2	15.3	12.2	10.1	11.7	10.6	8.4
Max-1Hr	21.9	27.0	23.3	18.8	22.7	18.4	16.1
Min-1Hr	4.4	3.6	5.4	1.7	2.6	4.9	3.6
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-CCE

Location : Wat Bowin		Monitor Period : 04-11 Sep 2024					
Analyzer Model : API 100A		Station No : SS2-09					
Serial No : 906		Site Operator : Mr.Supakit Tamooka					
Calibrator Model : Teledyne 700E		Serial No : 587					
Calibration Gas Cylinder I.D.: EB0102326							
Certified Date : 08 Jan 2024		Cal Concentration (ppb) : 0,100,200,400					
Expire Date : 07 Jan 2025							
Time	SO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
10:00 - 11:00	3.3	4.4	3.4	3.5	0.2	2.9	3.9
11:00 - 12:00	3.1	2.4	3.2	2.8	0.1	3.1	5.1
12:00 - 13:00	2.8	1.6	2.3	3.2	0.0	3.1	2.1
13:00 - 14:00	3.2	3.5	1.7	3.9	1.6	3.2	3.6
14:00 - 15:00	3.3	4.7	3.7	4.0	2.3	2.3	2.9
15:00 - 16:00	3.1	2.1	2.8	3.6	2.9	2.7	3.8
16:00 - 17:00	3.1	4.3	2.0	3.2	2.0	3.9	1.2
17:00 - 18:00	4.3	1.8	2.3	3.1	2.5	3.9	0.3
18:00 - 19:00	2.0	2.2	2.2	2.6	2.5	0.8	3.7
19:00 - 20:00	1.8	1.6	2.1	2.2	2.6	7.0	1.2
20:00 - 21:00	1.1	1.7	2.1	3.5	2.3	2.5	0.9
21:00 - 22:00	1.1	1.8	1.0	4.0	4.6	1.6	2.5
22:00 - 23:00	1.0	1.3	1.4	3.3	0.1	0.3	1.2
23:00 - 00:00	0.9	3.3	0.8	3.2	0.4	2.8	3.0
00:00 - 01:00	0.5	3.3	1.0	2.2	2.8	6.0	1.5
01:00 - 02:00	0.6	3.6	1.5	1.7	2.9	2.9	2.9
02:00 - 03:00	0.8	3.5	1.0	1.7	2.2	2.3	2.3
03:00 - 04:00	0.9	2.2	1.1	1.8	3.5	1.1	1.6
04:00 - 05:00	1.0	1.7	1.4	1.8	2.7	1.9	0.7
05:00 - 06:00	1.1	1.7	0.9	3.8	2.2	1.7	0.3
06:00 - 07:00	1.3	1.8	0.2	3.7	2.1	2.5	0.9
07:00 - 08:00	1.4	1.8	3.3	3.4	1.6	4.8	2.3
08:00 - 09:00	1.2	3.8	2.2	3.2	2.7	4.1	1.7
09:00 - 10:00	1.3	3.7	2.0	3.7	3.3	4.0	3.7
Average-24Hr*	1.8	2.7	1.9	3.0	2.1	3.0	2.2
Max-1Hr	4.3	4.7	3.7	4.0	4.6	7.0	5.1
Min-1Hr	0.5	1.3	0.2	1.7	0.0	0.3	0.3
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-CCE

Location : Wat Yang Ane Monitor Period : 04-11 Sep 2024
Analyzer Model : API 100A Station No : Shelter 16
Serial No : 347 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2025

Time	SO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
11:00 - 12:00	2.0	1.6	5.9	4.2	7.4	1.8	2.4
12:00 - 13:00	1.1	1.1	6.7	3.8	3.5	2.7	3.0
13:00 - 14:00	0.1	0.8	5.1	4.9	7.1	2.3	1.7
14:00 - 15:00	0.8	0.7	1.2	4.6	5.9	2.6	1.2
15:00 - 16:00	1.3	0.2	3.7	5.2	6.8	3.7	1.2
16:00 - 17:00	1.7	0.7	3.1	0.7	2.1	3.1	5.2
17:00 - 18:00	2.9	2.6	1.3	2.6	3.5	1.3	6.3
18:00 - 19:00	1.6	5.8	1.7	5.8	2.2	1.7	0.4
19:00 - 20:00	1.4	1.6	3.8	1.6	2.0	1.6	0.4
20:00 - 21:00	1.5	2.8	1.2	2.8	1.5	2.1	0.6
21:00 - 22:00	1.6	2.3	0.3	2.3	1.8	1.5	2.7
22:00 - 23:00	1.1	2.2	3.7	2.2	1.2	1.2	2.7
23:00 - 00:00	1.9	1.9	1.2	1.9	1.6	1.7	1.6
00:00 - 01:00	2.7	1.3	0.9	1.3	2.9	2.6	1.3
01:00 - 02:00	2.4	1.5	2.5	1.6	2.1	0.3	1.8
02:00 - 03:00	2.7	1.5	1.2	2.1	1.9	0.7	1.4
03:00 - 04:00	2.7	1.7	3.0	1.5	1.3	1.4	2.7
04:00 - 05:00	1.6	2.4	1.5	1.2	1.5	1.0	1.1
05:00 - 06:00	1.3	1.4	2.9	1.7	0.7	0.2	1.2
06:00 - 07:00	1.8	1.5	2.3	2.6	0.9	0.8	1.6
07:00 - 08:00	1.4	1.1	1.6	5.6	0.5	0.4	1.1
08:00 - 09:00	2.7	2.4	1.3	6.3	0.1	1.4	0.8
09:00 - 10:00	1.1	3.0	1.1	2.9	0.5	1.9	1.2
10:00 - 11:00	1.2	1.7	2.1	6.7	1.4	1.1	1.7
Average-24Hr*	1.7	1.8	2.5	3.2	2.5	1.6	1.9
Max-1Hr	2.9	5.8	6.7	6.7	7.4	3.7	6.3
Min-1Hr	0.1	0.2	0.3	0.7	0.1	0.2	0.4
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-CCE

Location : Ban Hubhorn Health Promotion Hospital Monitor Period : 04-11 Sep 2024
Analyzer Model : Thermo 43C Station No : SS2-01
Serial No : 0607415773 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 04 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 03 Jan 2025

Time	SO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
11:00 - 12:00	5.2	4.8	2.8	3.5	4.0	1.5	4.5
12:00 - 13:00	4.8	5.7	3.9	3.6	2.4	1.9	5.8
13:00 - 14:00	7.1	1.9	3.6	3.9	4.0	3.2	4.3
14:00 - 15:00	4.8	6.2	4.0	4.0	4.1	2.9	3.8
15:00 - 16:00	5.4	4.8	2.4	4.7	4.3	2.4	2.5
16:00 - 17:00	3.2	6.4	3.2	5.2	4.2	1.3	2.7
17:00 - 18:00	1.4	5.9	4.6	6.6	4.3	1.1	4.2
18:00 - 19:00	4.1	6.3	3.0	4.5	5.6	3.0	1.3
19:00 - 20:00	4.6	3.4	2.4	3.2	4.9	1.6	2.6
20:00 - 21:00	3.0	2.0	2.9	3.7	2.5	1.2	2.0
21:00 - 22:00	2.6	2.4	4.8	2.5	1.4	1.8	1.3
22:00 - 23:00	3.5	3.5	4.1	2.5	1.3	1.8	1.6
23:00 - 00:00	2.1	2.6	3.4	2.1	1.9	1.6	2.9
00:00 - 01:00	2.5	3.0	2.8	1.3	1.2	1.3	1.5
01:00 - 02:00	3.6	3.7	2.3	2.8	1.6	1.9	3.7
02:00 - 03:00	4.6	2.5	6.6	1.9	2.6	0.5	4.5
03:00 - 04:00	4.5	2.5	7.3	1.6	2.9	0.1	4.0
04:00 - 05:00	3.1	2.1	8.1	1.8	3.6	0.9	4.7
05:00 - 06:00	2.7	1.3	7.8	1.5	4.1	1.6	4.7
06:00 - 07:00	4.6	2.8	7.4	2.8	2.0	2.0	3.3
07:00 - 08:00	5.8	1.9	6.9	3.9	2.5	1.6	4.0
08:00 - 09:00	5.7	1.6	6.4	2.4	1.4	2.5	4.1
09:00 - 10:00	3.6	1.8	7.1	1.3	1.2	3.6	4.3
10:00 - 11:00	3.0	1.5	2.4	3.6	1.8	4.6	2.5
Average-24Hr*	4.0	3.4	4.6	3.1	2.9	1.9	3.4
Max-1Hr	7.1	6.4	8.1	6.6	5.6	4.6	5.8
Min-1Hr	1.4	1.3	2.3	1.3	1.2	0.1	1.3
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-CCE

Location : Ban Khao Hin School Monitor Period : 04-11 Sep 2024
Analyzer Model : Teledyne T100 Station No : Shelter 18
Serial No : 119 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 04 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 03 Jan 2025

Time	SO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
12:00 - 13:00	2.5	1.7	1.2	2.4	2.6	1.0	2.6
13:00 - 14:00	2.2	1.8	0.7	3.0	3.7	2.6	2.0
14:00 - 15:00	2.4	1.9	0.3	2.9	4.3	2.5	1.7
15:00 - 16:00	2.1	1.7	0.6	2.7	2.5	2.5	1.5
16:00 - 17:00	2.0	1.8	1.3	2.5	1.4	3.1	1.5
17:00 - 18:00	2.0	3.0	1.4	2.5	2.5	0.2	2.7
18:00 - 19:00	1.7	2.9	1.9	2.5	2.5	0.2	2.5
19:00 - 20:00	1.5	2.7	2.9	3.0	2.5	0.3	1.4
20:00 - 21:00	1.3	2.5	2.6	4.9	2.5	0.4	1.9
21:00 - 22:00	1.4	2.5	3.5	3.5	3.0	0.3	2.5
22:00 - 23:00	1.9	2.5	1.2	2.2	0.2	0.5	2.1
23:00 - 00:00	2.9	3.0	1.4	2.5	0.6	0.5	3.5
00:00 - 01:00	2.6	3.5	2.5	2.0	2.5	0.6	1.2
01:00 - 02:00	3.5	3.4	2.9	1.2	2.0	2.8	0.6
02:00 - 03:00	1.2	2.6	5.6	0.7	1.2	0.5	0.2
03:00 - 04:00	2.6	3.4	3.4	0.3	0.7	0.4	1.6
04:00 - 05:00	3.7	6.1	4.0	0.6	0.3	0.2	0.4
05:00 - 06:00	4.3	5.1	3.8	1.3	0.6	0.2	1.4
06:00 - 07:00	2.5	5.9	1.9	1.4	1.5	0.3	2.2
07:00 - 08:00	1.4	2.7	1.8	1.9	2.5	0.2	2.2
08:00 - 09:00	2.5	2.3	1.7	2.9	2.5	4.3	1.3
09:00 - 10:00	1.8	2.2	1.8	2.6	2.6	2.4	1.9
10:00 - 11:00	1.9	2.5	1.9	3.5	3.0	3.6	1.2
11:00 - 12:00	1.8	2.0	2.2	1.2	1.1	4.0	1.4
Average-24Hr*	2.2	2.9	2.2	2.3	2.0	1.4	1.7
Max-1Hr	4.3	6.1	5.6	4.9	4.3	4.3	3.5
Min-1Hr	1.2	1.7	0.3	0.3	0.2	0.2	0.2
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-CCE

Location : Ban Kanum Chet Monitor Period : 04-11 Sep 2024
Analyzer Model : API 100A Station No : Shelter 16
Serial No : 376 Site Operator : Mr.Supakit Tamooka

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 04 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 03 Jan 2025

Time	SO2 Concentration (ppb)						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
10:00 - 11:00	2.5	1.9	3.5	3.0	7.4	7.7	4.3
11:00 - 12:00	2.0	2.2	1.2	7.4	7.7	5.4	2.5
12:00 - 13:00	1.2	2.4	2.6	6.9	5.4	5.2	1.4
13:00 - 14:00	0.7	3.0	3.7	6.4	5.2	6.4	2.5
14:00 - 15:00	0.3	2.9	4.3	7.1	6.4	6.6	1.8
15:00 - 16:00	0.6	2.7	2.5	2.3	6.6	7.3	1.9
16:00 - 17:00	1.3	2.5	1.4	4.2	7.3	8.1	1.8
17:00 - 18:00	1.4	2.5	2.5	4.2	8.1	7.8	1.7
18:00 - 19:00	1.9	2.5	2.5	4.1	0.2	7.4	1.8
19:00 - 20:00	2.9	3.0	2.5	0.3	1.6	2.5	1.9
20:00 - 21:00	2.6	4.9	2.5	0.4	0.4	2.0	1.7
21:00 - 22:00	3.5	3.5	3.0	0.3	1.4	1.2	1.8
22:00 - 23:00	1.2	2.2	2.5	0.5	1.2	0.7	3.0
23:00 - 00:00	1.4	2.5	2.2	0.5	2.7	0.3	2.9
00:00 - 01:00	2.5	2.0	2.4	0.6	2.5	0.6	2.7
01:00 - 02:00	2.9	1.2	2.1	2.8	1.4	1.3	2.5
02:00 - 03:00	5.6	0.7	2.0	0.5	1.9	1.4	2.5
03:00 - 04:00	3.4	0.3	2.0	1.0	2.5	1.9	5.9
04:00 - 05:00	4.0	0.6	1.7	2.6	2.1	2.9	3.4
05:00 - 06:00	3.8	1.3	1.5	2.5	3.5	2.6	2.0
06:00 - 07:00	1.9	1.4	1.5	2.5	2.2	3.5	2.4
07:00 - 08:00	1.8	1.9	2.5	3.1	2.2	1.2	3.5
08:00 - 09:00	1.7	2.9	2.5	4.3	1.3	2.6	4.6
09:00 - 10:00	1.8	2.6	2.6	2.4	1.9	3.7	2.7
Average-24Hr*	2.2	2.2	2.4	2.9	3.5	3.8	2.6
Max-1Hr	5.6	4.9	4.3	7.4	8.1	8.1	5.9
Min-1Hr	0.3	0.3	1.2	0.3	0.2	0.3	1.4
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

คุณภาพอากาศจากแหล่งกำเนิด



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

STACK AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1881/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: US.EPA Method 23
SAMPLING DATE	: 09/09/2024	ANALYTICAL DATE	: 10/09/2024-15/10/2024
RECEIVED DATE	: 10/09/2024	SAMPLE CONDITION	: Normal
REPORT DATE	: 17/10/2024	FILE CODE	: 224096_STK_September
VOLUME OF DEY GAS AT STP	: 2.587 Nm ³	% OXYGEN SAMPLING	: 9.72
NAME LOCATION	: Boiler		

Compound	DETECTION LIMIT	AMOUNT	AMOUNT	7% OXYGEN	TEF	TEQ (I-TEF)	7% OXYGEN
	ng/sample ^{1/}	ng/sample ^{1/}	ng/Nm ³	(ng/Nm ³)	(I-TEF) ^{2/}	(ng-I-TEQ/Nm ³)	(ng-I-TEQ/Nm ³)
PCDDs							
2,3,7,8-TCDD	< 0.00230	< 0.00230	< 0.000889	< 0.001107	1.00	< 0.000889	< 0.001107
1,2,3,7,8-PeCDD	< 0.00300	< 0.00300	< 0.00116	< 0.001444	0.50	< 0.000580	< 0.000722
1,2,3,4,7,8-HxCDD	< 0.00600	< 0.00600	< 0.002319	< 0.002889	0.10	< 0.000232	< 0.000289
1,2,3,6,7,8-HxCDD	< 0.00600	< 0.00600	< 0.002319	< 0.002889	0.10	< 0.000232	< 0.000289
1,2,3,7,8,9-HxCDD	< 0.00600	< 0.00600	< 0.002319	< 0.002889	0.10	< 0.000232	< 0.000289
1,2,3,4,6,7,8-HpCDD	< 0.00680	< 0.00680	< 0.002629	< 0.003274	0.01	< 0.000026	< 0.000033
OCDD	< 0.0280	< 0.0280	< 0.0108233	< 0.01348	0.001	< 0.000011	< 0.000013
Total PCDDs							
PCDFs							
2,3,7,8-TCDF	< 0.00400	< 0.00400	< 0.001546	< 0.001926	0.10	< 0.000155	< 0.000193
1,2,3,7,8-PeCDF	< 0.00550	< 0.00550	< 0.002126	< 0.002648	0.05	< 0.000106	< 0.000132
2,3,4,7,8-PeCDF	< 0.00550	< 0.00550	< 0.002126	< 0.002648	0.50	< 0.001063	< 0.001324
1,2,3,4,7,8-HxCDF	< 0.00500	< 0.00500	< 0.001933	< 0.002407	0.10	< 0.000193	< 0.000241
1,2,3,6,7,8-HxCDF	< 0.00500	< 0.00500	< 0.001933	< 0.002407	0.10	< 0.000193	< 0.000241
2,3,4,6,7,8-HxCDF	< 0.00500	< 0.00500	< 0.001933	< 0.002407	0.10	< 0.000193	< 0.000241
1,2,3,7,8,9-HxCDF	< 0.00500	< 0.00500	< 0.001933	< 0.002407	0.10	< 0.000193	< 0.000241
1,2,3,4,6,7,8-HpCDF	< 0.00650	< 0.00650	< 0.002513	< 0.003129	0.10	< 0.000251	< 0.000313
1,2,3,4,7,8,9-HpCDF	< 0.00480	< 0.00480	< 0.001855	< 0.002311	0.01	< 0.000019	< 0.000023
OCDF	< 0.040	< 0.040	< 0.015462	< 0.019258	0.001	< 0.000015	< 0.000019
Total PeCDFs							
Total PCDDs + PCDFs							
						< 0.0046	< 0.0057

Methods for the Determination of Polychlorinated Dibenzop-p-Dioxin Polychlorinated Dibenzofurans From Stationary Sources - US.EPA Methods 23.2017

Mr. Song Hengchwankul
Sample Collector
REG.NO.จ-239-ถ-0016

(Mrs. Araya Tipparak)
Technical Management Team
REG. NO. จ-239-ถ-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduce, except in full, without official approval.

3. ^{1/} Analysis were performed by Eurofins Food Testing Thailand Co., Ltd.

^{1/} DETECTION LIMIT (ng/sample) < - Concentration below the indicated limit of quantification (LOQ).

4. ^{2/} TEF (TOXIC EQUIVALENCY FACTOR< TEQ (TOXIC EQUIVALENCY) USE IS ACCORDING TO NATO/CCMS.1988 (I-TEF).



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TEL : (662) 959-3600 FAX : (662) 959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013MTR_Stack/Sep/PM
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 09/09/2024
RECEIVED DATE	: 10/09/2024	ANALYTICAL DATE	: 10-11/09/2024
REPORT DATE	: 27/09/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: Boiler	OPERATOR	: Mr. Chanyut Kaewnaphan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Industrial Waste

STACK DESCRIPTION

Height	: 50.0 m	Gas Velocity	: 14.0 m/s
Diameter	: 1.5 m	Flow rate ^{1/}	: 860 Ncu.m./min
Temperature	: 179.8 °C	Excess Oxygen	: 9.7 %
Moisture	: 11.8 %		

PARAMETER	UNIT	RESULT ^{1/}			STANDARD		REFERENCE
		9.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate matter	mg/Ncu.m.	2.46	3.05	0.04	12 ^{2/} (70 ^{3/})	0.22 ^{2/}	US. EPA Method 5

Miss Ponnapa Budthum
(Miss Ponnapa Budthum)

Analyst

REG.NO.จ-239-ถ-0018

Miss Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ถ-0010

Remark : 1. Reported analysis refers to submitted sample only.

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3. ^{1/} At standard pressure of 760 mm.Hg and temperature of 25 °C, dry basis.

4. ^{2/} The assigned value in EIA report.

5. ^{3/} Emission Standard prescribed by Ministry of Natural Resources and Environment, 2023 (B.E.2566).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCER NO.	: 224013MTR_Stack/Sep/Hg
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 09/09/2024
RECEIVED DATE	: 10/09/2024	ANALYTICAL DATE	: 10-17/09/2024
REPORT DATE	: 27/09/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Chanyut Kaewnaphan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Industrial Waste

STACK DESCRIPTION

Height	: 50.0	m	Gas Velocity	: 14.0	m/s
Diameter	: 1.5	m	Flow rate ^{1/}	: 860	Ncu.m./min
Temperature	: 179.8	°C	Excess Oxygen	: 9.7	%
Moisture	: 11.8	%			

PARAMETER	UNIT	ND	RESULT ^{1/}			STANDARD		REFERENCE
			(non-detectable)	9.7%O ₂	7%O ₂	g/s	7%O ₂	
							g/s	METHOD
Hg	mg/Ncu.m	< 0.0003	< 0.0003	< 0.0004	< 0.000004	0.05 ^{2/, 3/}	0.001 ^{2/}	US. EPA Method 29

(Miss Krisana Chanthoom)

Analyst

REG.NO.จ-239-ท-0017

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ท-0010

Remark : 1. Reported analysis refers to submitted sample only.

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4. ^{2/} The assigned value in EIA report.

5. ^{3/} Emission Standard prescribed by Ministry of Natural Resources and Environment, 2023 (B.E.2566).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCER NO.	: 224013MTR_Stack/Sep/Pb
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 09/09/2024
RECEIVED DATE	: 10/09/2024	ANALYTICAL DATE	: 10-17/09/2024
REPORT DATE	: 27/09/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Chanyut Kaewnaphan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Industrial Waste

STACK DESCRIPTION

Height	: 50.0	m	Gas Velocity	: 14.0	m/s
Diameter	: 1.5	m	Flow rate ^{1/}	: 860	Ncu.m./min
Temperature	: 179.8	°C	Excess Oxygen	: 9.7	%
Moisture	: 11.8	%			

PARAMETER	UNIT	ND	RESULT ^{1/}			STANDARD		REFERENCE
			(non-detectable)	9.7%O ₂	7%O ₂	g/s	7%O ₂	
							g/s	METHOD
Pb	mg/Ncu.m	< 0.02	0.06	0.07	0.00086	0.5 ^{2/, 3/}	0.01 ^{2/}	US. EPA Method 29

(Miss Krisana Chanthoom)

Analyst

REG.NO.จ-239-ท-0017

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ท-0010

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4. ^{2/} The assigned value in EIA report.

5. ^{3/} Emission Standard prescribed by Ministry of Natural Resources and Environment, 2023 (B.E.2566).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCER NO.	: 224013MTR_Stack/Sep/Cd
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 09/09/2024
RECEIVED DATE	: 10/09/2024	ANALYTICAL DATE	: 10-17/09/2024
REPORT DATE	: 27/09/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Chanyut Kaewnaphan
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Industrial Waste

STACK DESCRIPTION

Height	: 50.0 m	Gas Velocity	: 14.0 m/s
Diameter	: 1.5 m	Flow rate ^{1/}	: 860 Neu.m./min
Temperature	: 179.8 °C	Excess Oxygen	: 9.7 %
Moisture	: 11.8 %		

PARAMETER	UNIT	ND	RESULT ^{1/}			STANDARD		REFERENCE
		(non-detectable)	9.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	METHOD
Cd	mg/Ncu.m	< 0.004	< 0.004	< 0.005	< 0.00006	0.05 ^{2/, 3/}	0.001 ^{2/}	US. EPA Method 29


(Miss Krisana Chanthoom)

Analyst

REG.NO.จ-239-ท-0017


(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ท-0010

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4. ^{2/} The assigned value in EIA report.

5. ^{3/} Emission Standard prescribed by Ministry of Natural Resources and Environment, 2023 (B.E.2566).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCER NO.	: 224013MTR_Stack/Sep/HCl
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 09/09/2024
RECEIVED DATE	: 10/09/2024	ANALYTICAL DATE	: 27/09/2024
REPORT DATE	: 27/09/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Industrial Waste

STACK DESCRIPTION

Height	: 50.0 m	Gas Velocity	: 14.0 m/s
Diameter	: 1.5 m	Flow rate ^{1/}	: 860 Neu.m./min
Temperature	: 179.8 °C	Excess Oxygen	: 9.7 %
Moisture	: 11.8 %		

PARAMETER	UNIT	ND	RESULT ^{1/}			STANDARD		REFERENCE
		(non-detectable)	9.7%O ₂	7%O ₂	g/s	7%O ₂	g/s	METHOD
HCl	ppm	< 0.007	0.26	0.32	0.0055	8 ^{2/} (25 ^{3/})	0.22 ^{2/}	US. EPA Method 26A


(Miss Pornnapa Budthum)

Analyst

REG.NO.จ-239-ท-0018


(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ท-0010

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4. ^{2/} The assigned value in EIA report.

5. ^{3/} Emission Standard prescribed by Ministry of Natural Resources and Environment, 2023 (B.E.2566).

Monitoring Results of Emission Concentration
Boiler Stack
Chonburi Clean Energy Co.,Ltd.
September 9, 2024

Run Number	Oxygen content (%)		Oxides of nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	9.66	9.59	98.08	98.13	120.60
2	9.75	9.72	94.79	94.85	117.93
3	9.82	9.84	91.05	91.11	114.51
Average	9.74	9.72	94.64	94.70	117.70

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	9.66	9.59	0.41	0.36	0.44
2	9.75	9.72	0.49	0.45	0.56
3	9.82	9.84	0.58	0.54	0.68
Average	9.74	9.72	0.49	0.45	0.56

Chonburi Clean Energy Co.,Ltd.
EMISSION TEST RESULT

Date: September 9, 2024
 Start time: 11:50 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Industrial waste

Run # : 1
 Location : Boiler Stack
 Finish time : 12:10 PM
 Serial No.: 121121-9
 Serial No.: 314
 Serial No.: 118
 Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:50 AM	10.14	96.29	0.34
11:51 AM	9.74	100.14	0.40
11:52 AM	9.62	108.14	0.42
11:53 AM	9.90	105.92	0.42
11:54 AM	9.54	107.70	0.44
11:55 AM	9.60	110.11	0.44
11:56 AM	9.62	107.91	0.42
11:57 AM	9.68	104.95	0.44
11:58 AM	10.18	98.71	0.38
11:59 AM	10.19	95.91	0.39
12:00 PM	9.80	93.44	0.37
12:01 PM	9.70	88.58	0.34
12:02 PM	10.55	68.07	0.31
12:03 PM	10.53	63.01	0.28
12:04 PM	10.04	72.26	0.32
12:05 PM	9.51	91.62	0.37
12:06 PM	8.90	104.10	0.47
12:07 PM	8.50	117.42	0.51
12:08 PM	8.33	119.56	0.56
12:09 PM	9.05	106.60	0.52
12:10 PM	9.66	99.20	0.47
Average	9.66	98.08	0.41

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Chonburi Clean Energy Co.,Ltd. EMISSION TEST RESULT

Run # : 2
Date: September 9, 2024
Start time: 12:11 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Industrial waste
Location : Boiler Stack
Finish time : 12:31 PM
Serial No.: 121121-9
Serial No.: 314
Serial No.: 118
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:11 PM	9.92	100.02	0.48
12:12 PM	9.76	93.81	0.43
12:13 PM	9.54	92.26	0.44
12:14 PM	9.87	93.57	0.65
12:15 PM	10.12	100.29	0.54
12:16 PM	9.57	97.12	0.36
12:17 PM	9.13	118.20	0.56
12:18 PM	9.27	111.44	0.54
12:19 PM	9.34	107.89	0.51
12:20 PM	9.62	99.24	0.50
12:21 PM	9.95	89.89	0.45
12:22 PM	9.97	86.54	0.46
12:23 PM	9.87	89.20	0.46
12:24 PM	9.67	85.31	0.33
12:25 PM	9.65	91.21	0.53
12:26 PM	9.64	92.34	0.74
12:27 PM	10.30	93.29	0.53
12:28 PM	10.12	94.71	0.43
12:29 PM	9.76	92.65	0.46
12:30 PM	9.85	82.34	0.52
12:31 PM	9.76	79.24	0.45
Average	9.75	94.79	0.49

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Chonburi Clean Energy Co.,Ltd. EMISSION TEST RESULT

Run # : 3
Date: September 9, 2024
Start time: 12:32 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Industrial waste
Location : Boiler Stack
Finish time : 12:52 PM
Serial No.: 121121-9
Serial No.: 314
Serial No.: 118
Test Operator : Song H.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:32 PM	10.16	83.96	0.51
12:33 PM	10.58	73.91	0.47
12:34 PM	10.77	67.64	0.45
12:35 PM	10.54	65.88	0.45
12:36 PM	9.00	105.90	0.64
12:37 PM	9.18	110.21	0.69
12:38 PM	9.70	101.71	0.61
12:39 PM	10.43	81.76	0.55
12:40 PM	11.03	67.35	0.50
12:41 PM	10.87	68.35	0.51
12:42 PM	10.29	77.51	0.52
12:43 PM	9.82	91.56	0.57
12:44 PM	9.82	95.35	0.58
12:45 PM	10.07	97.43	0.58
12:46 PM	9.98	98.03	0.60
12:47 PM	9.22	101.45	0.63
12:48 PM	8.72	110.61	0.64
12:49 PM	8.70	115.69	0.69
12:50 PM	8.99	104.14	0.67
12:51 PM	8.97	101.11	0.63
12:52 PM	9.33	92.48	0.62
Average	9.82	91.05	0.58

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

ระดับเสียงทั่วไป



Noise Monitoring Result : Community Noise

MTR-CCE

Location : Wat Map Born
SLM Model : Cirrus CR162B
Site Operator : Mr.Supakit Tamooka

Monitor Period : 04-11 Sep 2024

Serial No : G300990

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.5/0.2
Cal Sheet No.: CR-515-2024-252

Serial No : 94296


Certified Date : 14 Feb 2024


Expire Date : 13 Feb 2025

Time	Equivalent Sound Pressure Level (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
11:00 - 12:00	49.5	49.7	51.6	50.9	50.1	50.9	53.5
12:00 - 13:00	50.8	50.1	51.3	52.8	53.6	52.1	48.5
13:00 - 14:00	51.0	53.7	52.3	52.5	50.0	49.6	49.4
14:00 - 15:00	50.5	50.5	54.6	51.0	50.7	53.7	50.2
15:00 - 16:00	49.3	50.0	52.1	50.5	57.9	56.7	49.6
16:00 - 17:00	49.5	51.1	51.5	49.0	55.6	49.6	46.4
17:00 - 18:00	50.0	52.1	48.6	50.4	66.2	50.6	49.7
18:00 - 19:00	52.4	49.3	53.2	48.4	51.3	48.2	50.4
19:00 - 20:00	49.5	49.9	49.3	48.1	49.5	51.6	48.5
20:00 - 21:00	48.9	49.1	53.3	48.7	48.7	49.8	48.2
21:00 - 22:00	48.9	49.3	48.1	49.1	49.5	47.3	47.2
22:00 - 23:00	48.9	48.4	49.8	46.9	49.2	45.4	45.5
23:00 - 00:00	48.5	47.7	47.0	46.6	48.7	45.6	44.7
00:00 - 01:00	47.5	47.5	45.8	47.5	48.8	45.3	45.8
01:00 - 02:00	47.5	47.5	45.4	46.0	49.2	45.5	44.2
02:00 - 03:00	47.6	46.9	45.3	44.4	49.2	46.3	44.8
03:00 - 04:00	47.6	46.1	45.0	45.8	49.3	46.7	45.0
04:00 - 05:00	47.5	47.0	45.6	46.0	49.8	47.7	46.0
05:00 - 06:00	48.0	50.3	48.0	48.2	51.0	48.5	56.1
06:00 - 07:00	52.7	51.3	51.5	51.9	52.5	52.4	51.8
07:00 - 08:00	51.6	49.9	51.8	52.6	53.2	50.7	52.3
08:00 - 09:00	50.1	52.5	49.2	51.1	48.6	58.6	49.1
09:00 - 10:00	49.0	50.9	49.6	51.3	50.6	48.9	50.6
10:00 - 11:00	50.0	52.1	49.0	51.9	49.9	53.0	49.8
Leq(24)*	49.7	50.1	50.4	49.9	54.9	51.4	49.7
Ldn	55.4	55.3	54.9	54.6	58.1	55.3	55.9
Lmax **	79.8	89.4	84.6	86.5	82.7	82.6	84.4
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 11:00-11:00

** Maximum Sound Pressure Level between 11:00-11:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise

MTR-CCE

Location : Wat Map Born
SLM Model : Cirrus CR162B
Site Operator : Mr.Supakit Tamooka

Monitor Period : 04-11 Sep 2024

Serial No : G300990

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.5/0.2
Cal Sheet No.: CR-515-2024-252

Serial No : 94296

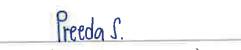
Certified Date : 14 Feb 2024

Expire Date : 13 Feb 2025

Time	L90 (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
11:00 - 12:00	47.1	47.5	45.9	45.5	44.0	46.2	44.1
12:00 - 13:00	47.0	47.0	46.2	45.9	47.0	45.4	43.7
13:00 - 14:00	47.7	48.1	46.9	45.7	44.7	45.8	45.3
14:00 - 15:00	47.6	47.7	48.4	46.5	44.4	46.1	47.3
15:00 - 16:00	47.3	47.3	46.7	45.8	49.2	47.1	43.9
16:00 - 17:00	47.1	48.2	46.0	43.3	44.6	44.4	43.2
17:00 - 18:00	46.7	48.5	44.2	45.0	47.3	43.1	42.1
18:00 - 19:00	46.9	46.9	45.1	44.3	46.1	43.1	43.2
19:00 - 20:00	48.0	47.7	46.0	46.1	46.5	46.8	46.8
20:00 - 21:00	48.2	48.0	46.4	46.2	46.9	46.0	46.1
21:00 - 22:00	48.2	47.9	46.5	46.0	48.6	45.9	46.0
22:00 - 23:00	47.9	47.4	46.9	45.8	48.6	44.8	43.2
23:00 - 00:00	47.9	47.0	45.6	44.8	47.9	44.9	42.4
00:00 - 01:00	46.8	46.8	44.7	44.6	48.1	44.7	43.6
01:00 - 02:00	46.8	46.7	44.5	44.9	48.7	44.7	43.2
02:00 - 03:00	46.4	45.9	43.9	43.2	48.5	45.3	43.7
03:00 - 04:00	46.5	45.3	44.0	43.0	48.5	45.6	43.5
04:00 - 05:00	46.1	45.9	44.2	42.9	49.1	44.5	43.2
05:00 - 06:00	46.5	46.7	45.0	42.6	48.0	45.1	43.2
06:00 - 07:00	47.5	47.3	45.1	43.8	46.9	46.7	44.3
07:00 - 08:00	46.3	47.5	45.5	45.4	47.3	45.2	45.3
08:00 - 09:00	46.2	46.6	44.8	46.4	45.3	47.2	43.7
09:00 - 10:00	46.5	46.0	45.3	46.7	47.1	43.6	43.5
10:00 - 11:00	47.8	45.6	44.7	45.7	46.1	44.5	41.8
L90(avg)*	47.2	47.1	45.7	45.2	47.3	45.4	44.3

Remark : * Average time between 11:00-11:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise

MTR-CCE

Location : Ban Kanum Chet Monitor Period : 04-11 Sep 2024
SLM Model : Cirrus CR162B Serial No : G302743
Site Operator : Mr.Supakit Tamooka


Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.6/0.1 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-252

Time	Equivalent Sound Pressure Level (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
10:00 - 11:00	58.9	54.4	74.4	70.5	54.6	57.7	62.5
11:00 - 12:00	56.2	53.5	52.1	65.5	56.6	53.3	59.3
12:00 - 13:00	58.0	62.0	61.3	63.8	55.2	53.1	61.4
13:00 - 14:00	52.1	54.5	52.7	62.4	54.6	54.3	57.6
14:00 - 15:00	59.7	55.7	62.4	67.3	58.2	54.7	59.5
15:00 - 16:00	66.3	63.8	61.2	64.2	55.6	60.6	56.7
16:00 - 17:00	63.0	60.0	68.5	54.8	56.7	67.3	57.6
17:00 - 18:00	57.3	61.0	68.3	55.5	64.6	72.6	58.5
18:00 - 19:00	66.8	55.2	56.2	56.2	69.4	60.2	57.2
19:00 - 20:00	70.8	56.9	56.6	53.9	55.0	63.0	59.1
20:00 - 21:00	68.8	59.3	54.0	59.7	53.5	61.8	56.6
21:00 - 22:00	49.8	52.8	54.4	53.5	52.5	54.4	65.0
22:00 - 23:00	51.4	52.4	51.7	54.0	52.4	51.1	55.7
23:00 - 00:00	49.0	50.5	48.9	50.9	50.9	51.9	50.8
00:00 - 01:00	48.2	50.0	48.5	53.3	49.6	49.1	50.3
01:00 - 02:00	47.5	52.1	48.1	49.2	50.9	48.7	51.3
02:00 - 03:00	48.2	50.2	47.3	47.1	50.5	48.9	49.6
03:00 - 04:00	49.4	48.8	47.1	49.7	51.0	48.6	50.4
04:00 - 05:00	47.6	50.1	46.9	55.4	51.5	48.6	51.2
05:00 - 06:00	50.7	52.0	52.5	57.6	52.3	50.1	52.4
06:00 - 07:00	58.4	60.3	55.0	54.6	66.6	63.5	59.1
07:00 - 08:00	63.0	60.7	61.6	57.4	62.3	61.4	64.5
08:00 - 09:00	59.2	58.0	70.7	55.3	65.7	64.5	63.5
09:00 - 10:00	52.5	68.3	66.6	59.7	67.1	52.3	53.8
Leq(24)*	62.1	59.2	64.4	61.4	61.2	62.1	59.1
Ldn	63.3	62.0	65.0	63.3	65.3	64.4	62.0
Lmax **	94.2	99.6	95.4	99.4	95.8	93.7	96.9
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 10:00-10:00

** Maximum Sound Pressure Level between 10:00-10:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise

MTR-CCE


Location : Ban Kanum Chet Monitor Period : 04-11 Sep 2024
SLM Model : Cirrus CR162B Serial No : G302743
Site Operator : Mr.Supakit Tamooka

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.6/0.1 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-252

Time	L90 (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
10:00 - 11:00	44.1	46.8	45.3	53.1	49.7	46.7	47.7
11:00 - 12:00	43.2	50.8	45.7	49.5	51.0	46.2	53.2
12:00 - 13:00	44.0	51.7	45.6	49.2	51.1	45.8	52.5
13:00 - 14:00	44.5	51.7	45.6	48.9	50.9	46.5	51.7
14:00 - 15:00	43.6	51.6	46.6	51.1	50.8	47.6	54.0
15:00 - 16:00	44.1	51.9	46.6	47.1	52.1	46.3	52.4
16:00 - 17:00	46.8	51.2	47.4	46.6	51.7	46.9	52.4
17:00 - 18:00	46.1	51.4	49.5	45.9	52.8	45.0	54.1
18:00 - 19:00	45.4	51.2	49.1	44.8	51.4	45.3	51.7
19:00 - 20:00	45.6	50.9	47.3	45.5	49.4	46.1	50.2
20:00 - 21:00	45.8	50.5	46.7	46.0	49.1	48.8	48.5
21:00 - 22:00	45.6	50.1	46.8	47.2	50.1	49.2	49.0
22:00 - 23:00	45.6	49.8	46.8	47.8	50.4	49.3	49.9
23:00 - 00:00	45.1	48.9	46.5	47.4	49.0	47.9	47.3
00:00 - 01:00	47.0	48.9	46.1	47.3	48.0	47.8	48.3
01:00 - 02:00	47.1	48.7	45.9	46.5	49.6	47.7	47.4
02:00 - 03:00	47.1	48.1	45.8	46.6	49.3	48.1	47.1
03:00 - 04:00	46.9	47.8	45.9	46.6	49.4	47.4	48.6
04:00 - 05:00	46.6	48.0	45.7	46.5	49.8	47.4	48.1
05:00 - 06:00	47.4	48.0	46.0	46.8	50.3	47.1	50.7
06:00 - 07:00	48.3	49.6	46.6	47.6	51.3	48.3	50.5
07:00 - 08:00	48.7	50.2	46.9	47.3	51.3	47.3	51.0
08:00 - 09:00	47.9	49.4	47.4	47.5	47.9	46.6	46.7
09:00 - 10:00	48.5	48.1	47.5	47.7	46.3	46.3	46.2
L90(avg)*	46.3	50.0	46.8	48.0	50.3	47.3	50.6

Remark : * Average time between 10:00-10:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise

MTR-CCE

Location : North Fence of Project
SLM Model : Cirrus CR162B
Site Operator : Mr.Supakit Tamooka

Monitor Period : 04-11 Sep 2024
Serial No : G300769

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.8/-0.1
Cal Sheet No.: CR-515-2024-252

Serial No : 94296
Certified Date : 14 Feb 2024
Expire Date : 13 Feb 2025

Time	Equivalent Sound Pressure Level (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
09:00 - 10:00	66.3	62.9	62.3	60.2	63.4	59.6	60.2
10:00 - 11:00	63.4	60.5	60.8	60.4	60.6	60.1	58.5
11:00 - 12:00	63.5	59.8	61.9	60.0	60.8	59.7	58.0
12:00 - 13:00	66.2	58.7	61.6	60.4	61.2	59.5	58.1
13:00 - 14:00	66.5	62.8	62.5	62.7	62.2	61.2	60.6
14:00 - 15:00	65.5	61.7	61.8	58.9	57.3	59.9	58.7
15:00 - 16:00	65.2	58.0	59.8	58.8	56.0	57.3	56.3
16:00 - 17:00	65.0	57.3	58.2	56.7	55.6	54.9	55.1
17:00 - 18:00	65.9	56.4	56.9	55.7	61.9	54.8	54.8
18:00 - 19:00	58.1	55.7	56.6	55.7	57.4	55.9	55.2
19:00 - 20:00	56.2	55.9	56.4	55.9	57.7	55.2	55.4
20:00 - 21:00	56.1	56.1	56.5	55.9	57.4	55.6	55.3
21:00 - 22:00	55.9	56.0	56.5	56.1	57.4	55.7	54.9
22:00 - 23:00	56.1	56.0	56.6	55.9	57.8	55.5	55.0
23:00 - 00:00	56.3	55.9	56.7	55.6	58.1	55.5	55.1
00:00 - 01:00	55.9	55.8	56.6	55.6	58.0	55.5	55.1
01:00 - 02:00	55.9	55.7	56.5	55.6	57.5	55.6	55.4
02:00 - 03:00	56.0	55.7	56.4	55.5	57.0	55.5	55.3
03:00 - 04:00	56.1	55.8	56.5	55.6	57.0	55.4	55.4
04:00 - 05:00	56.5	55.9	56.4	55.7	57.1	55.4	55.4
05:00 - 06:00	56.5	56.0	56.4	55.7	57.2	55.6	55.5
06:00 - 07:00	56.7	56.5	56.5	55.9	57.1	55.9	56.3
07:00 - 08:00	57.6	56.7	57.2	56.3	57.3	55.9	56.0
08:00 - 09:00	60.8	59.1	61.8	61.2	60.8	58.8	58.4
Leq(24)*	62.1	58.3	59.0	58.0	59.1	57.3	56.8
Ldn	64.8	63.0	63.6	62.7	64.3	62.4	62.2
Lmax **	87.8	88.8	87.8	86.3	89.5	85.1	83.6
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 09:00-09:00

** Maximum Sound Pressure Level between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise

MTR-CCE

Location : North Fence of Project
SLM Model : Cirrus CR162B
Site Operator : Mr.Supakit Tamooka

Monitor Period : 04-11 Sep 2024
Serial No : G300769

Calibrator Model : Cirrus CR:515
Calibration Ref dB(A) : 94.0
SLM Reading / Adjust dB(A) : 93.8/-0.1
Cal Sheet No.: CR-515-2024-252

Serial No : 94296
Certified Date : 14 Feb 2024
Expire Date : 13 Feb 2025

Time	L90 (dB(A))						
	04-05 Sep 2024	05-06 Sep 2024	06-07 Sep 2024	07-08 Sep 2024	08-09 Sep 2024	09-10 Sep 2024	10-11 Sep 2024
09:00 - 10:00	63.7	56.8	56.0	55.9	56.5	55.6	55.4
10:00 - 11:00	58.8	56.7	56.5	55.9	55.8	55.4	54.8
11:00 - 12:00	58.7	56.2	56.8	56.2	56.1	55.2	54.5
12:00 - 13:00	65.2	55.6	56.9	56.1	56.1	55.3	54.4
13:00 - 14:00	64.6	55.9	56.8	55.8	56.5	55.3	54.7
14:00 - 15:00	64.4	55.8	56.7	55.7	55.9	55.3	54.6
15:00 - 16:00	64.3	55.8	56.4	55.9	55.3	54.3	54.7
16:00 - 17:00	63.9	55.8	56.3	55.7	55.1	54.1	54.1
17:00 - 18:00	64.6	55.6	55.2	55.1	56.4	54.3	54.1
18:00 - 19:00	55.3	55.1	55.7	54.9	57.0	54.5	54.2
19:00 - 20:00	55.6	55.4	56.1	55.3	57.2	54.7	54.7
20:00 - 21:00	55.6	55.5	56.0	55.5	57.0	55.1	54.6
21:00 - 22:00	55.5	55.6	56.1	55.7	56.8	55.3	54.5
22:00 - 23:00	55.8	55.6	56.2	55.3	57.5	55.1	54.6
23:00 - 00:00	56.0	55.5	56.2	55.3	57.8	55.2	54.7
00:00 - 01:00	55.6	55.5	56.3	55.3	57.7	55.1	54.7
01:00 - 02:00	55.6	55.3	56.1	55.3	56.8	55.3	54.9
02:00 - 03:00	55.6	55.4	56.2	55.2	56.5	55.2	54.9
03:00 - 04:00	55.8	55.5	56.1	55.3	56.6	55.1	55.0
04:00 - 05:00	56.1	55.6	56.1	55.4	56.7	55.1	54.9
05:00 - 06:00	56.2	55.7	56.1	55.4	56.5	55.2	54.9
06:00 - 07:00	56.2	55.9	55.9	55.4	56.1	55.2	54.9
07:00 - 08:00	56.1	55.8	55.9	55.7	55.9	55.1	55.0
08:00 - 09:00	55.9	55.8	56.1	55.9	55.3	55.0	54.6
L90(avg)*	60.4	55.7	56.2	55.6	56.5	55.1	54.7

Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

คุณภาพน้ำทิ้ง



บริษัท ซีคอต จำกัด
SECOT CO., LTD.


239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : cnvserv@secot.co.th


WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1379/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:34
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 05-13/07/2024
REPORT DATE	: 15/07/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_July
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				I	
Temperature	°C	2550 B	< 0.5	29.9	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.65	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	688	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	1.4	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 500
COD	mg/l	5220 D	< 40.00	< 40.00	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA,APHA,WEF)


(Miss Pornnapa Budthum)
Analyst
REG. NO. 7-239-ก-0018


(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 7-239-ก-0004

- Remark :**
1. Reported analysis refers to submitted sample only.
 2. This report shall not be reproduced, except in full, without official approval.
 3. ^{1/} Notification of the Industrial Estate Authority of Thailand No.029, B.E.2567 (2024).
 4. ^{2/} The value was assigned in EIA report.
 5. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : cnvserv@secot.co.th


WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1379/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:34
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 05-10/07/2024
REPORT DATE	: 15/07/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_July
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				I	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0064	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	ND	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.06	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	ND	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	< 0.01	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.11	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA,APHA,WEF)


(Miss Krisana Chanthoom)
Analyst
REG. NO. 7-239-ก-0017


(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 7-239-ก-0004

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 1379/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 04/07/2024 SAMPLING TIME : 10:39
RECEIVED DATE : 05/07/2024 ANALYTICAL DATE : 05-13/07/2024
REPORT DATE : 15/07/2024 SITE OPERATOR : Mr. Chitpon Somprasong
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_July
LOCATION DESCRIPTION : 2= บ่อพักน้ำทิ้งที่ 2 (Holding Pond # 2)

PARAMETER	UNIT	ANALYSIS METHODS	ND	STATION	STANDARD ^{1/,2/}
			(non-detectable)	2	
Temperature	°C	2550 B	< 0.5	29.2	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.72	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,683	*
Total Dissolved Solids	mg/l	2540 C	< 50	1,168	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.5	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 2-239-9-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-9-0004

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4. ^{2/} The value was assigned in EIA report.
5. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 1522/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 01/08/2024 SAMPLING TIME : 10:39
RECEIVED DATE : 02/08/2024 ANALYTICAL DATE : 02-08/08/2024
REPORT DATE : 09/08/2024 SITE OPERATOR : Mr. Chitpon Somprasong
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_August
LOCATION DESCRIPTION : 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)

PARAMETER	UNIT	ANALYSIS METHODS	ND	STATION	STANDARD ^{1/,2/}
			(non-detectable)	1	
Temperature	°C	2550 B	< 0.5	30.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.23	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	1,358	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	11	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	4.7	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	3.8	≤ 500
COD	mg/l	5220 D	< 40.00	72.93	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 2-239-9-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-9-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1522/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 01/08/2024	SAMPLING TIME	: 10:39
RECEIVED DATE	: 02/08/2024	ANALYTICAL DATE	: 02-06/08/2024
REPORT DATE	: 09/08/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_August
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				1	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0080	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	ND	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.29	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	< 0.03	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	0.03	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.36	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA APHA WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-ก-0017

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1522/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 01/08/2024	SAMPLING TIME	: 11:00
RECEIVED DATE	: 02/08/2024	ANALYTICAL DATE	: 02-08/08/2024
REPORT DATE	: 09/08/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_August
LOCATION DESCRIPTION	: 2 = บ่อพักน้ำทิ้งที่ 2 (Holding Pond # 2)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				2	
Temperature	°C	2550 B	< 0.5	29.8	≤ 45
pH	-	4500-H B	< 0.10	7.59	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,805	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,244	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.4	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA APHA WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-ก-0018

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1854/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 05/09/2024	SAMPLING TIME	: 11:20
RECEIVED DATE	: 06/09/2024	ANALYTICAL DATE	: 06-12/09/2024
REPORT DATE	: 16/09/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_September
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND	STATION	STANDARD ^{1/, 2/}
			(non-detectable)	1	
Temperature	°C	2550 B	< 0.5	32.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.70	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	1,734	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	36	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	19.1	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	12.2	≤ 500
COD	mg/l	5220 D	< 40.00	59.78	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)


(Miss Pornnapa Budthum)

Analyst

REG. NO. ๖-239-๖-0018


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-๖-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1854/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 05/09/2024	SAMPLING TIME	: 11:20
RECEIVED DATE	: 06/09/2024	ANALYTICAL DATE	: 07-11/09/2024
REPORT DATE	: 16/09/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_September
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND	STATION	STANDARD ^{1/, 2/}
			(non-detectable)	1	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0045	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	ND	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.34	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	0.06	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	0.06	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.10	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)


(Miss Krisana Chanthoom)

Analyst

REG. NO. ๖-239-๖-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-๖-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 1854/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 05/09/2024 SAMPLING TIME : 11:24
RECEIVED DATE : 06/09/2024 ANALYTICAL DATE : 06-12/09/2024
REPORT DATE : 16/09/2024 SITE OPERATOR : Mr. Chitpon Somprasong
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_September
LOCATION DESCRIPTION : 2 = บ่อพักน้ำทิ้งที่ 2 (Holding Pond # 2)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 2	STANDARD ^{1/2/}
Temperature	°C	2550 B	< 0.5	30.2	≤ 45
pH	-	4500-H ¹ B	< 0.10	8.04	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	2,022	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,234	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.4	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED, 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-ก-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 2033/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 03/10/2024 SAMPLING TIME : 10:20
RECEIVED DATE : 04/10/2024 ANALYTICAL DATE : 04-10/10/2024
REPORT DATE : 11/10/2024 SITE OPERATOR : Miss Thipsuda Wannakran
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_October
LOCATION DESCRIPTION : 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD ^{1/2/}
Temperature	°C	2550 B	< 0.5	31.4	≤ 45
pH	-	4500-H ¹ B	< 0.10	7.21	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	2,202	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	94	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	20.9	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	8.6	≤ 500
COD	mg/l	5220 D	< 40.00	67.63	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED, 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-ก-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 2033/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 03/10/2024 SAMPLING TIME : 10:20
RECEIVED DATE : 04/10/2024 ANALYTICAL DATE : 04-09/10/2024
REPORT DATE : 11/10/2024 SITE OPERATOR : Miss Thipsuda Wannakran
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_October
LOCATION DESCRIPTION : 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				I	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0053	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	< 0.01	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.57	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	0.12	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	0.07	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.28	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-ก-0017



(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 2033/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 03/10/2024 SAMPLING TIME : 10:30
RECEIVED DATE : 04/10/2024 ANALYTICAL DATE : 04-10/10/2024
REPORT DATE : 11/10/2024 SITE OPERATOR : Miss Thipsuda Wannakran
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_October
LOCATION DESCRIPTION : 2 = บ่อพักน้ำทิ้งที่ 2 (Holding Pond # 2)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				2	
Temperature	°C	2550 B	< 0.5	29.8	≤ 45
pH	*	4500-H ⁺ B	< 0.10	7.60	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	2,140	*
Total Dissolved Solids	mg/l	2540 C	< 50	1,186	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.3	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)


(Miss Pornnapa Budthum)

Analyst

REG. NO. 2-239-ก-0018



(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 2347/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 14/11/2024	SAMPLING TIME	: 15:26
RECEIVED DATE	: 15/11/2024	ANALYTICAL DATE	: 15-23/11/2024
REPORT DATE	: 25/11/2024	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_November
LOCATION DESCRIPTION	: 1 = บ่อกักน้ำที่ 1 (Holding Pond 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				I	
Temperature	°C	2550 B	< 0.5	30.6	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.32	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	1.025	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	5.7	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	2.8	≤ 500
COD	mg/l	5220 D	< 40.00	53.09	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 22nd ED., 2017 (AWWA, APHA, WEF)


(Miss Pornnapa Budthum)
Analyst
REG. NO. 2-239-0-0018


(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 2-239-0-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 2347/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 14/11/2024	SAMPLING TIME	: 15:26
RECEIVED DATE	: 15/11/2024	ANALYTICAL DATE	: 15-18/11/2024
REPORT DATE	: 25/11/2024	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_November
LOCATION DESCRIPTION	: 1 = บ่อกักน้ำที่ 1 (Holding Pond 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				I	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0071	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	< 0.01	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.18	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	< 0.03	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	0.04	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.31	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 22nd ED., 2017 (AWWA, APHA, WEF)


(Miss Krisana Chanthoom)
Analyst
REG. NO. 2-239-0-0017


(Mrs. Araya Tipparuk)
Technical Management Team
REG. NO. 2-239-0-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 2347/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 14/11/2024 SAMPLING TIME : 15:29
RECEIVED DATE : 15/11/2024 ANALYTICAL DATE : 15-23/11/2024
REPORT DATE : 25/11/2024 SITE OPERATOR : Mr.Natthachai Chaiyakhot
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_November
LOCATION DESCRIPTION : 2 = บ่อพักน้ำทิ้งที่ 2 (Holding Pond 2)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				2	
Temperature	°C	2550 B	< 0.5	30.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.21	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,772	*
Total Dissolved Solids	mg/l	2540 C	< 50	1,181	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.1	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-ก-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 2596/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 11/12/2024 SAMPLING TIME : 09:35
RECEIVED DATE : 12/12/2024 ANALYTICAL DATE : 12-19/12/2024
REPORT DATE : 19/12/2024 SITE OPERATOR : Miss Wiraya Patchimboon
SAMPLE CONDITION : Normal FILE CODE : 224013_WW_December
LOCATION DESCRIPTION : 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/,2/}
				1	
Temperature	°C	2550 B	< 0.5	28.5	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.15	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	2,098	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
TKN	mg/l	4500-N _{org} B	< 0.20	5.8	≤ 100
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 500
COD	mg/l	5220 D	< 40.00	57.14	≤ 750

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-ก-0018

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 2596/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 11/12/2024	SAMPLING TIME	: 09:35
RECEIVED DATE	: 12/12/2024	ANALYTICAL DATE	: 16-18/12/2024
REPORT DATE	: 19/12/2024	SITE OPERATOR	: Miss Wiraya Patchimboon
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_December
LOCATION DESCRIPTION	: 1 = บ่อพักน้ำทิ้งที่ 1 (Holding Pond # 1)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				1	
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0042	≤ 0.25
Cadmium (Cd)	mg/l	3120 B	< 0.001	ND	≤ 0.03
Iron (Fe)	mg/l	3120 B	< 0.004	0.21	≤ 10 ^{2/}
Lead (Pb)	mg/l	3120 B	< 0.008	< 0.03	≤ 0.2
Manganese (Mn)	mg/l	3120 B	< 0.001	0.03	≤ 5
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005
Zinc (Zn)	mg/l	3120 B	< 0.003	0.18	≤ 5

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-ก-0017

(Mrs. Araya Tippiaruk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 2596/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 11/12/2024	SAMPLING TIME	: 09:42
RECEIVED DATE	: 12/12/2024	ANALYTICAL DATE	: 12-19/12/2024
REPORT DATE	: 19/12/2024	SITE OPERATOR	: Miss Wiraya Patchimboon
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_WW_December
LOCATION DESCRIPTION	: 2 = บ่อพักน้ำทิ้งที่ 2 (Holding Pond 2)		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/, 2/}
				2	
Temperature	°C	2550 B	< 0.5	28.3	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.11	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,313	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,294	≤ 3,000 ^{1/} , ≤ 1,300 ^{2/}
Dissolved Oxygen*	mg/l	4500-O G	< 0.1	5.4	≥ 4 ^{2/}

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Pornnapa Budthum)

Analyst

REG. NO. 2-239-ก-0018

(Mrs. Araya Tippiaruk)

Technical Management Team

REG. NO. 2-239-ก-0004

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5. * Not registered with the Department of Industrial Works.

6. - Not available.

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1433/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 11/07/2024	SAMPLING TIME	: 11:39-11:45
RECEIVED DATE	: 12/07/2024	ANALYTICAL DATE	: 12-16/07/2024
REPORT DATE	: 17/07/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_GW_July
LOCATION DESCRIPTION	: 1.Monitoring well within project site (บ่อสังเกตการณ์บริเวณ โครงการจุดที่ 4)		

PARAMETER	UNITS	ANALYSIS	ND	SAMPLING LOCATION	STANDARD ^{1/}
		METHODS	(non-detectable)	1	
Cadmium (Cd)	mg/l	3120 B	< 0.001	ND	≤ 2.0
Lead (Pb)	mg/l	3120 B	< 0.008	< 0.03	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)


(Miss Krisana Chanthoom)

Analyst

REG. NO. ว-239-จ-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ว-239-ค-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 1434/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Hand Auger
SAMPLING DATE : 11/07/2024 SAMPLING TIME : 10:50
RECEIVED DATE : 12/07/2024 ANALYTICAL DATE : 12-16/07/2024
REPORT DATE : 17/07/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan
SAMPLE CONDITION : Normal FILE CODE : 224013_Soil_July
LOCATION DESCRIPTION : 1. Area close to 4 MW of the Project (บริเวณใกล้กับบ่อส่งเหตุการณ์บริเวณโครงการ จุดที่ 1)

PARAMETER	UNITS	ANALYSIS METHODS	ND (non-detectable)	SAMPLING LOCATION	
				จุดที่ 1	STANDARD ^{1/}
Cadmium (Cd)	mg/kg	3050 B / 6010 D	< 1.00	1.08	≤ 810
Lead (Pb)	mg/kg	3050 B / 6010 D	< 3.00	13.56	≤ 750
Mercury (Hg)	mg/kg	7471 B	< 0.05	ND	≤ 610

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3rd edition , US EPA 2020.


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-ก-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REQUEST SERVICE No. : 1434/67
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Hand Auger
SAMPLING DATE : 11/07/2024 SAMPLING TIME : 10:58
RECEIVED DATE : 12/07/2024 ANALYTICAL DATE : 12-16/07/2024
REPORT DATE : 17/07/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan
SAMPLE CONDITION : Normal FILE CODE : 224013_Soil_July
LOCATION DESCRIPTION : 2. Area close to 4 MW of the Project (บริเวณใกล้กับบ่อส่งเหตุการณ์บริเวณโครงการ จุดที่ 2)


PARAMETER	UNITS	ANALYSIS METHODS	ND (non-detectable)	SAMPLING LOCATION	
				จุดที่ 2	STANDARD ^{1/}
Cadmium (Cd)	mg/kg	3050 B / 6010 D	< 1.00	1.11	≤ 810
Lead (Pb)	mg/kg	3050 B / 6010 D	< 3.00	15.62	≤ 750
Mercury (Hg)	mg/kg	7471 B	< 0.05	ND	≤ 610

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3rd edition , US EPA 2020.


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-ก-0017


(Mrs. Araya Tipparuk)

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1434/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 11/07/2024	SAMPLING TIME	: 11:03
RECEIVED DATE	: 12/07/2024	ANALYTICAL DATE	: 12-16/07/2024
REPORT DATE	: 17/07/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Soil_July
LOCATION DESCRIPTION	: 3. Area close to 4 MW of the Project (บริเวณใกล้กับบ่อสังเกตุการณ์บริเวณโครงการ จุดที่ 3)		

PARAMETER	UNITS	ANALYSIS	ND	SAMPLING LOCATION	STANDARD ^{1/}
		METHODS	(non-detectable)	จุดที่ 3	
Cadmium (Cd)	mg/kg	3050 B / 6010 D	< 1.00	1.60	≤ 810
Lead (Pb)	mg/kg	3050 B / 6010 D	< 3.00	11.86	≤ 750
Mercury (Hg)	mg/kg	7471 B	< 0.05	ND	≤ 610

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3rd edition, US EPA 2020.


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-9-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-9-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1434/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 11/07/2024	SAMPLING TIME	: 11:11
RECEIVED DATE	: 12/07/2024	ANALYTICAL DATE	: 12-16/07/2024
REPORT DATE	: 17/07/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Soil_July
LOCATION DESCRIPTION	: 4. Area close to 4 MW of the Project (บริเวณใกล้กับบ่อสังเกตุการณ์บริเวณโครงการ จุดที่ 4)		

PARAMETER	UNITS	ANALYSIS	ND	SAMPLING LOCATION	STANDARD ^{1/}
		METHODS	(non-detectable)	จุดที่ 4	
Cadmium (Cd)	mg/kg	3050 B / 6010 D	< 1.00	ND	≤ 810
Lead (Pb)	mg/kg	3050 B / 6010 D	< 3.00	15.38	≤ 750
Mercury (Hg)	mg/kg	7471 B	< 0.05	ND	≤ 610

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3rd edition, US EPA 2020.


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-9-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-9-0004

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SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1380/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab Samplers
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:47
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 06-31/07/2024
REPORT DATE	: 15/08/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Sludge_July

Compound	ng/kg (Dry Weight)	TEF (I-TEF)		SAMPLING LOCATION		STANDARD
		WHO 2005	(ng/kg-I-TEQ)	Fly Ash from Bag house System		
				mg/kg-I-TEQ		
PCDDs						-
2,3,7,8-TCDD	39.4	1.0	39.40	0.00003940	-	
1,2,3,7,8-PeCDD	76.7	1.0	76.70	0.00007670	-	
1,2,3,4,7,8-HxCDD	61.7	0.1	6.17	0.00000617	-	
1,2,3,6,7,8-HxCDD	200	0.1	20.00	0.00002000	-	
1,2,3,7,8,9-HxCDD	132	0.1	13.20	0.00001320	-	
1,2,3,4,6,7,8-HpCDD	1,170	0.01	11.70	0.00001170	-	
OCDD	2,680	0.0003	0.8040	0.00000800	-	
PCDFs						-
2,3,7,8-TCDF	263	0.1	26.30	0.000026300	-	
1,2,3,7,8-PeCDF	306	0.03	9.18	0.000009180	-	
2,3,4,7,8-PeCDF	264	0.3	79.20	0.000079200	-	
1,2,3,4,7,8-HxCDF	255	0.1	25.50	0.000025500	-	
1,2,3,6,7,8-HxCDF	252	0.1	25.20	0.000025200	-	
2,3,4,6,7,8-HxCDF	188	0.1	18.80	0.000018800	-	
1,2,3,7,8,9-HxCDF	< 13.2	0.1	< 1.32	< 0.00000132	-	
1,2,3,4,6,7,8-HpCDF	717	0.01	7.17	0.000007170	-	
1,2,3,4,7,8,9-HpCDF	110	0.01	1.10	0.000001100	-	
OCDF	360	0.0003	0.1080	0.000000108	-	
Total PCDDs + PCDFs			360.53	0.00036053		

Reference method : Manual for the simple and low cost analytical methods of dioxin in flue gas, fly ash, and bottom ash (Bioassay technique) Ministry of the Environment Japan, March 2011.

Reference method : U.S.EPA SW-846, Method 8290A Revision 1, February 2007.


(Mrs. Araya Tipparuk)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. Dioxin/Furan Analysis were performed by Eurofins Food Testing Thailand Co., Ltd.
4. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1380/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab Samplers
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:47
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 05-10/07/2024
REPORT DATE	: 11/07/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Sludge_July

PARAMETER	UNITS	ANALYSIS METHODS	ND (non-detectable)	SAMPLING LOCATION		STANDARD ^{1/}
				Fly Ash from Bag house System		
Cadmium (Cd)	TTLC mg/kg	3050 B / 6010 D	< 1.00	72.62		≤ 100
Lead (Pb)	TTLC mg/kg	3050 B / 6010 D	< 3.00	1,582		≤ 1,000
Mercury (Hg)	TTLC mg/kg	7471 B	< 0.05	4.18		≤ 20

Reference method / Test Methods of Evaluating Solid Waste, Physical/Chemical Methods SW-846, 3rd edition, US EPA 2020.


(Miss Krisana Chanthoom)

Analyst

REG. NO. ๓-239-๓-0017


(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๓-239-๓-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduce, except in full, without official approval.

3. TTLC = Total Threshold Limit Concentration (mg/kg).

4. ^{1/} Notification of Ministry of Industry ,B.E.2548 (2005).



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SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1380/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab Samplers
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:45
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 06/07/2024-01/08/2024
REPORT DATE	: 15/08/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Sludge_July

Compound	ng/kg (Dry Weight)	TEF (I-TEF)		SAMPLING LOCATION		STANDARD
		WHO 2005	ng/kg-I-TEQ	Bottom Ash from Boiler		
				mg/kg-I-TEQ		
PCDDs						
2,3,7,8-TCDD	< 1.70	1.0	< 1.700	< 0.0000017		-
1,2,3,7,8-PeCDD	< 2.26	1.0	< 2.260	< 0.00000226		-
1,2,3,4,7,8-HxCDD	< 4.53	0.1	< 0.453	< 0.000000453		-
1,2,3,6,7,8-HxCDD	< 4.53	0.1	< 0.453	< 0.000000453		-
1,2,3,7,8,9-HxCDD	< 4.53	0.1	< 0.453	< 0.000000453		-
1,2,3,4,6,7,8-HpCDD	< 5.09	0.01	< 0.0509	< 0.0000000509		-
OCDD	< 20.8	0.0003	< 0.00624	< 0.0000000624		-
PCDFs						
2,3,7,8-TCDF	< 3.02	0.1	< 0.302	< 0.000000302		-
1,2,3,7,8-PeCDF	< 4.15	0.03	< 0.1245	< 0.0000001245		-
2,3,4,7,8-PeCDF	< 4.15	0.3	< 1.245	< 0.000001245		-
1,2,3,4,7,8-HxCDF	< 3.77	0.1	< 0.377	< 0.000000377		-
1,2,3,6,7,8-HxCDF	< 3.77	0.1	< 0.377	< 0.000000377		-
2,3,4,6,7,8-HxCDF	< 3.77	0.1	< 0.377	< 0.000000377		-
1,2,3,7,8,9-HxCDF	< 3.77	0.1	< 0.377	< 0.000000377		-
1,2,3,4,6,7,8-HpCDF	< 4.91	0.01	< 0.0491	< 0.0000000491		-
1,2,3,4,7,8,9-HpCDF	< 3.58	0.01	< 0.0358	< 0.0000000358		-
OCDF	< 30.2	0.0003	< 0.00906	< 0.0000000906		-
Total PCDDs + PCDFs			< 8.6496	< 0.0000086496		-

Reference method : Manual for the simple and low cost analytical methods of dioxin in flue gas, fly ash, and bottom ash (Bioassay technique) Ministry of the Environment, Japan, March 2011.

Reference method : U.S. EPA SW-846, Method 8290A Revision 1, February 2007.

(Mrs. Araya Tipparuk)

Technical Management Team

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4. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REQUEST SERVICE No.	: 1380/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab Samplers
SAMPLING DATE	: 04/07/2024	SAMPLING TIME	: 10:45
RECEIVED DATE	: 05/07/2024	ANALYTICAL DATE	: 05-10/07/2024
REPORT DATE	: 11/07/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224013_Sludge_July

PARAMETER	UNITS	ANALYSIS METHODS	ND	SAMPLING LOCATION	STANDARD ^{1/}
			(non-detectable)	Bottom Ash from Boiler	
Cadmium (Cd)	TTLC mg/kg	3050 B / 6010 D	< 1.00	4.66	≤ 100
Lead (Pb)	TTLC mg/kg	3050 B / 6010 D	< 3.00	215	≤ 1,000
Mercury (Hg)	TTLC mg/kg	7471 B	< 0.05	0.11	≤ 20

Reference method : Test Methods of Evaluating Solid Waste, Physical/Chemical Methods SW-846, 3rd edition, USEPA 2020.

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-0-0017

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-0-0004

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduce, except in full, without official approval.
3. TTLC = Total Threshold Limit Concentration (mg/kg).
4. ^{1/} Notification of Ministry of Industry ,B.E.2548 (2005).

คุณภาพอากาศในที่ทำงาน



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ANALYSIS/TEST REPORT


Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1869/67
For	: Chonburi Clean Energy Co., Ltd.	Sampling Date	: 06/09/2024
Address	: 40/5 , Moo. 8, WHA Chonburi Industrial Estate 1, Bowin Sub-District, Sriracha District, Chonburi Province 20230	Received Date	: 07/09/2024
		Test Date	: 09/09/2024
Tel/Fax	: 0-3314-0300	Report Date	: 19/09/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				mg/m ³	mg/m ³	mg/m ³
Industrial waste receiving area (บริเวณพื้นที่รับกากอุตสาหกรรม)	06/09/2024 08:20-10:20	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	3
Industrial waste receiving area (บริเวณพื้นที่รับกากอุตสาหกรรม)	06/09/2024 08:20-10:20	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	10

Analyst By : 
(Miss Pornnapa Budthum)

Approved By : 
(Miss Narisa Poowasanpetch)
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. Standard of the American Conference of Governmental Industrial Hygienists 2022 : ACGIH 2024.

4. ND = non-detectable.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2609/67
For	: Chonburi Clean Energy Co., Ltd.	Sampling Date	: 11/12/2024
Address	: 40/5 , Moo. 8, WHA Chonburi Industrial Estate 1, Bowin Sub-District, Sriracha District, Chonburi Province 20230	Received Date	: 13/12/2024
		Test Date	: 14/12/2024
Tel/Fax	: 0-3314-0300	Report Date	: 23/12/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				mg/m ³	mg/m ³	mg/m ³
Industrial waste receiving area (บริเวณพื้นที่รับกากอุตสาหกรรม)	11/12/2024 09:12-11:12	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	3
Industrial waste receiving area (บริเวณพื้นที่รับกากอุตสาหกรรม)	11/12/2024 09:12-11:12	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	10

Analyst By : 
(Miss Pornnapa Budthum)

Approved By : 
(Miss Narisa Poowasanpetch)
Technical Management Team

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3. Standard of the American Conference of Governmental Industrial Hygienists 2024 : ACGIH 2024.

4. ND = non-detectable.

ระดับเสียงภายในสถานที่ทำงาน



Noise Monitoring Result : Working Noise

MTR-CCE

LOCATION	: ST & Generator	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820728
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	06-09-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	83.3
09:00 - 10:00	83.2
10:00 - 11:00	83.1
11:00 - 12:00	83.0
12:00 - 13:00	83.0
13:00 - 14:00	83.0
14:00 - 15:00	83.1
15:00 - 16:00	83.1
16:00 - 17:00	83.2
17:00 - 18:00	83.1
18:00 - 19:00	83.3
19:00 - 20:00	83.2
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	83.1
Lmax	86.5
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Sununta Sirawuttinanon)
 Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Feed Pump of Boiler System	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	06-09-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	78.0
09:00 - 10:00	77.8
10:00 - 11:00	77.7
11:00 - 12:00	77.6
12:00 - 13:00	77.6
13:00 - 14:00	77.6
14:00 - 15:00	77.5
15:00 - 16:00	77.6
16:00 - 17:00	77.6
17:00 - 18:00	77.7
18:00 - 19:00	77.8
19:00 - 20:00	77.6
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	77.7
Lmax	89.0
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Sununta Sirawuttinanon)
 Technical Management Team



Noise Monitoring Result : Working Noise

MTR-CCE

LOCATION	: CW Pump	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-09-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	81.5	
09:00 - 10:00	81.7	
10:00 - 11:00	81.4	
11:00 - 12:00	81.0	
12:00 - 13:00	80.8	
13:00 - 14:00	80.8	
14:00 - 15:00	80.6	
15:00 - 16:00	80.7	
16:00 - 17:00	80.8	
17:00 - 18:00	80.7	
18:00 - 19:00	80.5	
19:00 - 20:00	80.7	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	80.9	
Lmax	87.4	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Aeration Fan #1	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820727
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-09-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	82.1	
09:00 - 10:00	82.1	
10:00 - 11:00	82.3	
11:00 - 12:00	82.1	
12:00 - 13:00	82.2	
13:00 - 14:00	82.4	
14:00 - 15:00	82.3	
15:00 - 16:00	82.3	
16:00 - 17:00	82.1	
17:00 - 18:00	82.1	
18:00 - 19:00	80.7	
19:00 - 20:00	81.9	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	82.1	
Lmax	94.9	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-CCE

LOCATION	: Aeration Fan #2	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-09-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		82.6
09:00 - 10:00		83.6
10:00 - 11:00		83.6
11:00 - 12:00		83.8
12:00 - 13:00		83.8
13:00 - 14:00		83.6
14:00 - 15:00		83.7
15:00 - 16:00		83.4
16:00 - 17:00		82.8
17:00 - 18:00		83.4
18:00 - 19:00		83.5
19:00 - 20:00		83.4
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)		83.4
Lmax		98.2
Standard*		87 dB(A)
Standard-Max		140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-CCE

LOCATION	: Aeration Fan of Bag House System	MEASUREMENT DATE	: 06-09-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820731
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2409-0071-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-09-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		76.2
08:00 - 09:00		76.1
09:00 - 10:00		76.1
10:00 - 11:00		75.8
11:00 - 12:00		75.7
12:00 - 13:00		76.1
13:00 - 14:00		76.0
14:00 - 15:00		76.1
15:00 - 16:00		76.1
16:00 - 17:00		76.2
17:00 - 18:00		76.1
18:00 - 19:00		76.3
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)		76.1
Lmax		88.4
Standard*		87 dB(A)
Standard-Max		140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: ST & Generator	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	11-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	80.8
09:00 - 10:00	82.3
10:00 - 11:00	82.3
11:00 - 12:00	82.2
12:00 - 13:00	82.3
13:00 - 14:00	82.3
14:00 - 15:00	82.2
15:00 - 16:00	82.3
16:00 - 17:00	82.4
17:00 - 18:00	82.3
18:00 - 19:00	82.4
19:00 - 20:00	82.3
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	82.2
Lmax	86.9
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Feed Pump of Boiler System	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	11-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	78.0
09:00 - 10:00	77.9
10:00 - 11:00	77.8
11:00 - 12:00	77.8
12:00 - 13:00	77.7
13:00 - 14:00	77.9
14:00 - 15:00	77.9
15:00 - 16:00	77.9
16:00 - 17:00	77.9
17:00 - 18:00	78.0
18:00 - 19:00	78.0
19:00 - 20:00	77.9
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	77.9
Lmax	94.5
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: CW Pump	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	11-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	72.7
09:00 - 10:00	72.4
10:00 - 11:00	72.6
11:00 - 12:00	72.6
12:00 - 13:00	72.7
13:00 - 14:00	72.4
14:00 - 15:00	72.3
15:00 - 16:00	72.3
16:00 - 17:00	72.4
17:00 - 18:00	72.6
18:00 - 19:00	72.7
19:00 - 20:00	72.5
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	72.5
Lmax	89.4
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Sununta Sirawuttinanon)
 Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Aeration Fan #1	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820727
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	11-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	84.6
09:00 - 10:00	84.7
10:00 - 11:00	84.7
11:00 - 12:00	84.9
12:00 - 13:00	84.5
13:00 - 14:00	84.3
14:00 - 15:00	84.7
15:00 - 16:00	84.4
16:00 - 17:00	84.4
17:00 - 18:00	84.7
18:00 - 19:00	84.5
19:00 - 20:00	84.5
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	84.6
Lmax	95.7
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : * Notification of Ministry of Industry, B.E.2546


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Sununta Sirawuttinanon)
 Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Aeration Fan #2	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820729
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	11-12-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	82.5	
09:00 - 10:00	82.6	
10:00 - 11:00	82.6	
11:00 - 12:00	82.1	
12:00 - 13:00	82.0	
13:00 - 14:00	81.8	
14:00 - 15:00	82.2	
15:00 - 16:00	82.8	
16:00 - 17:00	83.0	
17:00 - 18:00	83.1	
18:00 - 19:00	83.2	
19:00 - 20:00	82.9	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	82.6	
Lmax	98.5	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-CCE

LOCATION	: Aeration Fan of Bag House System	MEASUREMENT DATE	: 11-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820728
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 94296
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 14-02-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 13-02-2025
CAL SHEET No.	: CAL-2412-0004-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	11-12-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	76.8	
09:00 - 10:00	76.9	
10:00 - 11:00	77.0	
11:00 - 12:00	77.1	
12:00 - 13:00	76.9	
13:00 - 14:00	77.1	
14:00 - 15:00	77.2	
15:00 - 16:00	77.2	
16:00 - 17:00	77.2	
17:00 - 18:00	77.2	
18:00 - 19:00	77.5	
19:00 - 20:00	77.3	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	77.1	
Lmax	89.6	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Notification of Ministry of Industry, B.E.2546


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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013/MON2H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 19-11-2024	CALIBRATOR TYPE	: Pulsar Model 22R, Cirrus RC:110A
MEASUREMENT LOCATION	: CCE	SERIAL NO.	: 79781, 95167
SITE OPERATOR	: Miss Salisa Ainree	CALIBRATOR REF.	: 114 dB @ 1kHz

USER NAME	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			TWA (12-hr)	%DOSE	STANDARD *
K.Kriangdet B.	Aeration Fan #1	08:50-19:00	78.8	35.9	83.0
K.Khamin I.	Aeration Fan #2	08:51-19:00	82.1	77.4	83.0
K.Tanawat P.	Aeration Fan of Bag House System	09:00-19:00	74.8	14.2	83.0
K.Phayao S.	CW Pump	08:48-19:00	76.0	18.8	83.0
K.Sukkhil B.	Feed Pump of Boiler System	08:48-19:00	76.6	21.8	83.0
K.Samon K.	ST & Generator	08:49-19:00	75.6	17.0	83.0


(Miss Katesarin Vorradetwittaya)
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Technical Management Team

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 - 3.* Notification of Department of Labour Protection and Welfare B.E.2561 (2018).
 4. TWA means Time Weighted Average.



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NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013/MON2H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 11-12-2024	CALIBRATOR TYPE	: Pulsar Model 22R
MEASUREMENT LOCATION	: CCE	SERIAL NO.	: 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER NAME	AREA/PLANT	TIME	SOUND PRESSURE LEVEL (dB(A))		
			TWA (12-hr)	%DOSE	STANDARD *
K.Chinnawat I.	Aeration Fan #1	08:57-19:00	81.8	71.7	83.0
K.Sukkee B.	Aeration Fan #2	08:42-19:00	76.6	21.7	83.0
K.Noppachai S.	Aeration Fan of Bag House System	08:40-19:00	78.3	32.2	83.0
K.Sanhanat J.	CW Pump	08:35-19:00	79.3	40.4	83.0
K.Sakhon C.	Feed Pump of Boiler System	08:35-19:00	82.3	80.0	83.0
K.Kraingdet B.	ST & Generator	08:52-19:00	79.0	37.8	83.0


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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 4. TWA means Time Weighted Average.

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013_CCE_Heat/Sep
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 06-09-2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210176, 3522210173
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{in}	WBGT _{Avg}	
Combustion Area	10:22-10:52	26.8	32.1	33.6	28.8	28.9	34.0
	10:52-11:22	27.1	32.9	34.0	29.2		
	11:22-11:52	26.5	31.8	33.7	28.7		
	11:52-12:22	26.7	32.7	34.4	29.0		
Industrial Waste Receiving Area	10:25-10:55	27.9	32.7	33.0	29.4	29.5	34.0
	10:55-11:25	28.0	33.3	33.4	29.7		
	11:25-11:55	27.7	32.8	32.9	29.3		
	11:55-12:25	28.0	32.9	33.1	29.5		

(Miss Katesarin Vorradetwittaya)

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Technical Management Team

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3. *WBGT Standard was notified by the Ministerial of Labor B.E.2559 (2016).

NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

Work Load : Light work load = 34.0 °C, Moderate work load = 32.0 °C and Heavy work load = 30.0 °C



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013_CCE_Heat/Dec
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 11-12-2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210173, 3522210172
SITE OPERATOR : Miss Wiraya Patchimboon

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{in}	WBGT _{Avg}	
Combustion Area	10:07-10:37	26.0	35.0	37.9	29.6	29.6	34.0
	10:37-11:07	25.8	34.4	37.2	29.2		
	11:07-11:37	25.6	34.2	37.5	29.1		
	11:37-12:07	27.3	34.8	37.5	30.4		
Industrial Waste Receiving Area	10:05-10:35	24.6	31.5	31.8	26.7	26.6	34.0
	10:35-11:05	24.0	31.7	32.0	26.4		
	11:05-11:35	23.9	31.9	32.0	26.3		
	11:35-12:05	24.3	32.5	32.6	26.8		

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NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

Work Load : Light work load = 34.0 °C, Moderate work load = 32.0 °C and Heavy work load = 30.0 °C

แสงสว่างในที่ทำงาน



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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013-Light(Day)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 06/09/2024 MODEL : 407026
MEASUREMENT LOCATION : Industrial Waste Receiving Area SERIAL NO. : A 056654
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			DAYTIME		STANDARD*
			AVERAGE	MINIMUM	
Industrial Waste Receiving Area (พื้นที่รับกากอุตสาหกรรม)					
Tipping Hall	Receiving industrial waste	09:03-09:05	550	-	≥ 200
			-	477	≥ 100

(Miss Katesarin Vorradetwittaya)

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Technical Management Team

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3. * Notification of the Department of Labour Protection and Welfare B.E.2561 (2018).



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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013-Light(Day)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 06/09/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			DAYTIME		STANDARD
			AVERAGE	MINIMUM	
Crane Control Room (ห้องควบคุมเครน)					
Crane Control Chair	Working of controlling	09:12	462	-	≥ 300
(เก้าอี้นั่งขับเครน)			-	313	≥ 150

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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013-Light(Night)
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 06/09/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Industrial Waste Receiving Area	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			NIGHTTIME		STANDARD*
			AVERAGE	MINIMUM	
Industrial Waste Receiving Area (พื้นที่รับกากอุตสาหกรรม)					
Tipping Hall	Receiving industrial waste	18:26-18:27	288	-	≥ 200
			-	230	≥ 100

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Environmental Scientist

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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013-Light(Night)
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 06/09/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Salisa Ainree		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			NIGHTTIME		STANDARD
			AVERAGE	MINIMUM	
Crane Control Room (ห้องควบคุมเครน)					
Crane Control Chair	Working of controlling	18:36	428	-	≥ 300
(เก้าอี้นั่งขับเครน)			-	322	≥ 150

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 06/09/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Salisa Ainree

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	DAYTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.1 (เก้าอี้นั่งขับเครนที่ 1)	Working of controlling	09:13	415	200-300


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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 06/09/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Salisa Ainree

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	DAYTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.2 (เก้าอี้นั่งขับเครนที่ 2)	Working of controlling	09:13	492	200-300


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CLIENT NAME	: Chonburi Clean Energy Co., Ltd.	REFERENCE NO.	: 224013-Light(Night)
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 06/09/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Salisa Ainree		

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	NIGHTTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.1	Working of controlling	18:33	419	200-300
(เก้าอี้นั่งขับเครนที่ 1)				

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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 06/09/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Salisa Ainree		

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	NIGHTTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.2	Working of controlling	18:34	460	200-300
(เก้าอี้นั่งขับเครนที่ 2)				

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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013-Light(Day)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 11/12/2024 MODEL : 407026
MEASUREMENT LOCATION : Industrial Waste Receiving Area SERIAL NO. : A 056654
SITE OPERATOR : Miss Wiraya Patchimboon

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			DAYTIME		STANDARD*
			AVERAGE	MINIMUM	
Industrial Waste Receiving Area (พื้นที่รับกากอุตสาหกรรม)					
Tipping Hall	Receiving industrial waste	09:00-09:01	932	-	≥ 200
			-	800	≥ 100


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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : Chonburi Clean Energy Co., Ltd. REFERENCE NO. : 224013-Light(Day)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 11/12/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Wiraya Patchimboon

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			DAYTIME		STANDARD*
			AVERAGE	MINIMUM	
Crane Control Room (ห้องควบคุมเครน)					
Crane Control Chair	Working of controlling	09:08	521	-	≥ 300
(เก้าอี้บังคับเครน)			-	346	≥ 150


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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 11/12/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Industrial Waste Receiving Area	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Wiraya Patchimboon		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			NIGHTTIME		STANDARD*
			AVERAGE	MINIMUM	
Industrial Waste Receiving Area (พื้นที่รับกากอุตสาหกรรม)					
Tipping Hall	Receiving industrial waste	19:10-19:13	308	-	≥ 200
			-	214	≥ 100

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MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Digital Light Meter
MEASUREMENT DATE	: 11/12/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Wiraya Patchimboon		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)		
			NIGHTTIME		STANDARD
			AVERAGE	MINIMUM	
Crane Control Room (ห้องควบคุมเครน)					
Crane Control Chair	Working of controlling	19:01-19:02	560	-	≥ 300
(เก้าอี้นั่งขับเครน)			-	328	≥ 150

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 11/12/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Wiraya Patchimboon

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			DAYTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.1 (เก้าอี้นั่งขับเครนที่ 1)	Working of controlling	09:07	481	200-300


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MEASUREMENT DATE : 11/12/2024 MODEL : 407026
MEASUREMENT LOCATION : Crane Control Room SERIAL NO. : A 056654
SITE OPERATOR : Miss Wiraya Patchimboon

LIGHT INTENSITY (LUX)

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			DAYTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.2	Working of controlling	09:07	500	200-300
(เก้าอี้นั่งขับเครนที่ 2)				


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MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Wiraya Patchimboon		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			NIGHTTIME	STANDARD*
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.1 (เก้าอี้นั่งขับเครนที่ 1)	Working of controlling	19:05	475	200-300


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MEASUREMENT DATE	: 11/12/2024	MODEL	: 407026
MEASUREMENT LOCATION	: Crane Control Room	SERIAL NO.	: A 056654
SITE OPERATOR	: Miss Wiraya Patchimboon		

LOCATION	TYPE OF WORK	TIME	LIGHT INTENSITY (LUX)	
			NIGHTTIME	STANDARD
Crane Control Room (ห้องควบคุมเครน)				
Crane Control Chair No.2 (เก้าอี้นั่งขับเครนที่ 2)	Working of controlling	19:05	452	200-300


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