

ภาคผนวก ง

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ง.1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



Meteorological Monitoring Results : Wind Rose

MTR-BIC

Location : Wat Khlong Phutsa

Monitor period : 23-30 Nov 2024

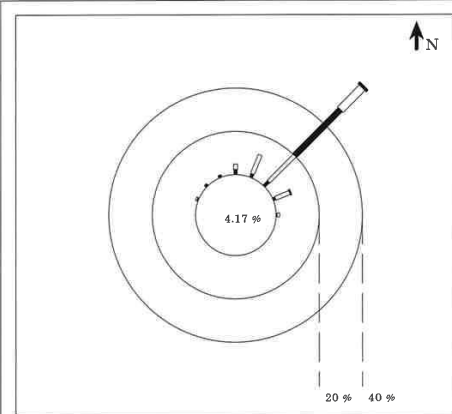
Wind Speed Model : Scarlet WS-21

Serial No : AD:47

Wind Direction Model : Scarlet WS-21

Serial No : AD:47

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0238	0.0238	0.0000	0.0000	0.0000	0.0000	0.0476
NNE	0.0179	0.0952	0.0000	0.0000	0.0000	0.0000	0.1131
NE	0.0298	0.1726	0.2976	0.1429	0.0119	0.0000	0.6548
ENE	0.0119	0.0714	0.0060	0.0000	0.0000	0.0000	0.0893
E	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
NW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
NNW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
CALM	0.0417						



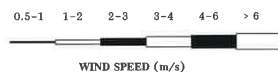
Application : WindPro Ver.1.0

Control : 16 Direction Calculation With

Calm Wind < 0.5 m/s

Data Unit : Direction in Deg.

Wind Speed in m/s



NOTE : Frequencies indicate direction from which the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224045-Wat Khlong Phutsa 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose

MTR-BIC

Location : Wat Khlong Phutsa

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

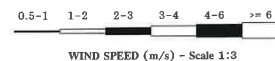
Serial No : AD:47

Wind Direction Model : Scarlet WS-21

Serial No : AD:47

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
08:00 - 09:00	1.4	NE	2.4	NE	2.5	NE	2.3	NE
09:00 - 10:00	2.0	NE	1.7	NE	1.8	NE	1.9	NE
10:00 - 11:00	1.5	NE	1.6	NNE	1.6	NE	1.8	NE
11:00 - 12:00	1.6	ENE	1.6	NE	1.8	NE	1.8	NE
12:00 - 13:00	1.8	NE	1.9	NE	1.7	ENE	1.8	NE
13:00 - 14:00	2.1	NE	1.4	ENE	1.7	ENE	1.8	NE
14:00 - 15:00	1.9	NE	1.2	NNE	1.8	NE	2.3	NE
15:00 - 16:00	1.7	NE	1.0	WNW	1.7	ENE	2.6	NE
16:00 - 17:00	1.4	NE	0.7	WNW	1.1	E	1.6	NE
17:00 - 18:00	1.2	NE	0.6	NW	1.1	E	2.0	NE
18:00 - 19:00	1.2	ENE	0.9	NNE	1.1	ENE	0.8	NNE
19:00 - 20:00	0.9	ENE	1.4	NE	0.9	NE	0.9	NE
20:00 - 21:00	0.6	E	0.9	NE	0.9	NE	0.4	NNW
21:00 - 22:00	1.2	NE	1.0	NNE	0.7	NE	0.3	N
22:00 - 23:00	1.4	NNE	0.3	NNE	0.4	NW	0.4	NW
23:00 - 24:00	2.0	NE	0.2	N	0.4	N	0.5	NNW
00:00 - 01:00	2.3	NE	0.5	NNE	0.6	N	1.1	NNE
01:00 - 02:00	2.9	NE	0.6	N	2.1	NE	2.0	NE
02:00 - 03:00	2.4	NE	0.8	N	2.4	NE	1.7	NE
03:00 - 04:00	1.9	NNE	0.8	N	2.4	NE	1.6	NE
04:00 - 05:00	2.4	NE	1.1	NNE	2.1	NE	2.5	NE
05:00 - 06:00	2.7	NE	1.1	NNE	1.7	NE	3.0	NE
06:00 - 07:00	2.6	NE	2.6	NE	2.7	NE	3.1	NE
07:00 - 08:00	3.2	NE	3.0	NE	2.5	NE	3.9	NE

Wind Rose



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

File Control : R:\Database\Windrose\FileControl\Win-224045-Wat Khlong Phutsa 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose

MTR-BIC

Location : Wat Khlong Phutsa

Monitor period : 23-30 Nov 2024

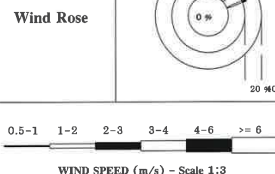
Wind Speed Model : Scarlet WS-21

Serial No : AD:47

Wind Direction Model : Scarlet WS-21


Serial No : AD:47

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
08:00 - 09:00	3.1	NE	3.6	NE	3.2	NE	
09:00 - 10:00	2.8	NE	3.0	NE	2.8	NE	
10:00 - 11:00	2.3	ENE	2.7	NE	2.6	NE	
11:00 - 12:00	1.8	ENE	2.8	NE	2.1	NE	
12:00 - 13:00	1.6	ENE	2.9	NE	2.4	NE	
13:00 - 14:00	1.5	NE	3.1	NE	2.8	NE	
14:00 - 15:00	1.6	ENE	2.7	NE	2.9	NE	
15:00 - 16:00	1.9	NE	3.1	NE	1.7	N	
16:00 - 17:00	2.0	NE	2.9	NE	0.9	NW	
17:00 - 18:00	1.6	NE	2.0	NE	0.9	NNW	
18:00 - 19:00	1.0	ENE	2.2	NE	1.2	NNE	
19:00 - 20:00	0.9	ENE	2.0	NE	1.0	N	
20:00 - 21:00	1.3	NE	1.3	ENE	1.0	N	
21:00 - 22:00	1.4	NNE	2.0	NE	1.9	NNE	
22:00 - 23:00	1.8	NNE	2.3	NE	1.6	NNE	
23:00 - 24:00	3.3	NE	2.7	NE	1.1	N	
00:00 - 01:00	3.3	NE	3.1	NE	1.9	NNE	
01:00 - 02:00	3.5	NE	3.2	NE	1.6	NNE	
02:00 - 03:00	2.6	NE	3.9	NE	1.4	NNE	
03:00 - 04:00	3.3	NE	4.4	NE	2.9	NE	
04:00 - 05:00	3.1	NE	4.2	NE	3.2	NE	
05:00 - 06:00	2.8	NE	3.4	NE	2.6	NE	
06:00 - 07:00	2.9	NE	3.7	NE	2.3	NE	
07:00 - 08:00	3.4	NE	3.5	NE	2.8	NE	



File Control : R:\Database\Windrose\FileControl\Win-224045-Wat Khlong Phutsa 23-30 Nov 2024


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose

MTR-BIC

Location : Ban Bang Krasun

Monitor period : 23-30 Nov 2024

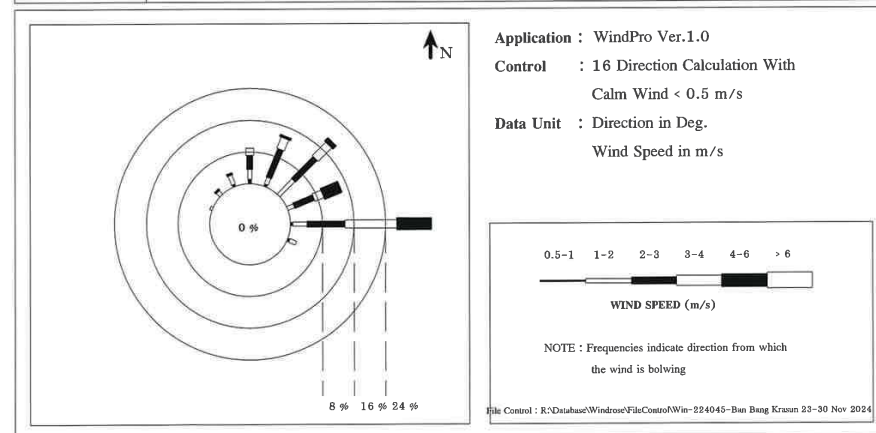
Wind Speed Model : Scarlet WS-21

Serial No : AD:67


Wind Direction Model : Scarlet WS-21

Serial No : AD:67

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0119	0.0238	0.0357	0.0179	0.0000	0.0000	0.0893
NNE	0.0060	0.0179	0.0774	0.0298	0.0060	0.0000	0.1369
NE	0.0000	0.0536	0.0774	0.0476	0.0119	0.0000	0.1905
ENE	0.0000	0.0179	0.0536	0.0238	0.0476	0.0000	0.1429
E	0.0060	0.0357	0.0952	0.1310	0.0893	0.0000	0.3571
ESE	0.0060	0.0179	0.0000	0.0000	0.0000	0.0000	0.0238
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NW	0.0000	0.0119	0.0060	0.0000	0.0000	0.0000	0.0179
NNW	0.0060	0.0238	0.0060	0.0000	0.0000	0.0000	0.0357
CALM	0.0000						




(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Ban Bang Krasom

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

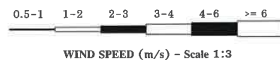
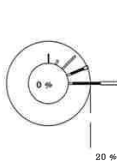
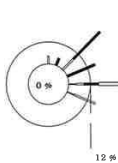
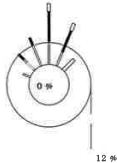
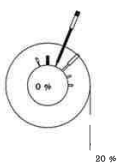
Serial No : AD:67

Wind Direction Model : Scarlet WS-21

Serial No : AD:67

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.0	NNE	2.3	NNE	2.4	NNE	2.7	E
11:00 - 12:00	2.0	NNE	2.0	NNE	2.6	NE	2.5	ENE
12:00 - 13:00	2.0	NNE	2.6	N	2.4	NE	2.1	E
13:00 - 14:00	2.2	NNE	2.7	NNE	2.1	NE	2.6	E
14:00 - 15:00	2.6	NNE	1.9	NNE	2.7	ENE	2.7	ENE
15:00 - 16:00	2.3	NNE	2.3	NNW	2.0	ENE	3.3	ENE
16:00 - 17:00	2.0	NNE	2.4	NW	1.8	E	2.7	ENE
17:00 - 18:00	1.4	NE	1.5	WNW	1.3	ESE	1.4	E
18:00 - 19:00	1.1	NE	1.1	NW	1.0	ESE	1.0	ENE
19:00 - 20:00	1.3	E	1.1	NNW	1.0	ESE	1.2	NE
20:00 - 21:00	1.1	ENE	1.0	N	0.7	ESE	1.4	NE
21:00 - 22:00	0.6	NNE	1.0	NNE	0.9	E	0.9	N
22:00 - 23:00	0.9	NNW	1.0	NNW	1.0	N	0.9	N
23:00 - 24:00	1.5	NNW	1.1	N	1.0	NE	1.4	NE
00:00 - 01:00	2.4	NNE	1.1	NNW	1.1	NE	1.7	NNE
01:00 - 02:00	3.1	NNE	1.4	N	2.0	NE	1.9	NE
02:00 - 03:00	3.0	NNE	1.4	NW	2.1	ENE	2.1	E
03:00 - 04:00	2.1	N	2.5	N	2.5	ENE	2.1	E
04:00 - 05:00	2.4	N	2.5	N	2.3	NE	2.1	E
05:00 - 06:00	3.4	NE	2.8	N	2.6	E	3.3	E
06:00 - 07:00	3.1	NE	3.0	N	2.3	E	3.4	E
07:00 - 08:00	4.1	NNE	3.9	NNE	3.4	E	3.9	E
08:00 - 09:00	3.6	NE	3.6	NE	3.3	E	4.8	E
09:00 - 10:00	3.2	NNE	3.6	NE	3.7	E	3.6	E

Wind Rose



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

File Control : R:\Database\Winrose\FileControl\Win-224045-Ban Bang Krasom 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Ban Bang Krasom

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

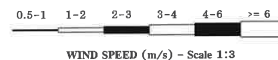
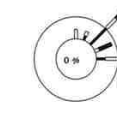
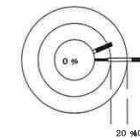
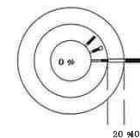
Serial No : AD:67

Wind Direction Model : Scarlet WS-21

Serial No : AD:67

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	3.3	E	4.3	E	4.2	ENE
11:00 - 12:00	3.4	ENE	3.9	E	3.4	E
12:00 - 13:00	2.8	ENE	3.6	E	3.1	ENE
13:00 - 14:00	1.8	E	3.4	E	3.4	NE
14:00 - 15:00	2.1	ENE	3.8	E	4.1	ENE
15:00 - 16:00	2.4	NE	3.9	ENE	3.8	NNE
16:00 - 17:00	2.6	NE	4.0	E	3.8	N
17:00 - 18:00	2.4	E	3.1	E	3.1	N
18:00 - 19:00	2.0	E	2.4	E	2.2	NNE
19:00 - 20:00	1.5	E	3.1	E	2.1	NE
20:00 - 21:00	1.5	E	2.7	E	2.7	NE
21:00 - 22:00	1.4	ENE	2.1	E	2.8	NE
22:00 - 23:00	1.6	NE	3.0	E	2.7	NE
23:00 - 24:00	2.8	NE	2.8	E	2.6	NE
00:00 - 01:00	4.1	E	4.1	E	3.1	NE
01:00 - 02:00	4.1	E	4.9	ENE	3.8	NE
02:00 - 03:00	4.2	E	5.6	ENE	4.1	NE
03:00 - 04:00	3.8	E	5.1	ENE	4.3	NE
04:00 - 05:00	4.2	E	5.5	ENE	4.8	ENE
05:00 - 06:00	3.9	E	5.1	ENE	4.7	E
06:00 - 07:00	3.6	E	4.4	E	3.7	E
07:00 - 08:00	3.8	E	5.2	E	2.9	E
08:00 - 09:00	4.2	E	4.3	E	3.4	E
09:00 - 10:00	4.4	E	4.8	E	2.9	E

Wind Rose



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

File Control : R:\Database\Winrose\FileControl\Win-224045-Ban Bang Krasom 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

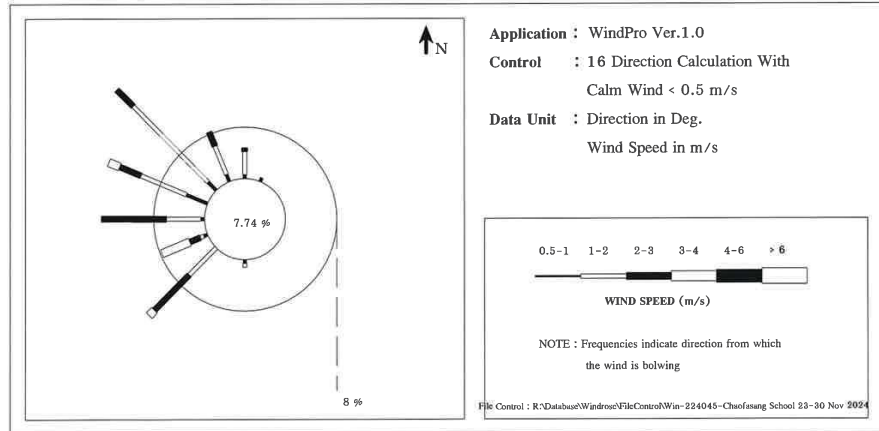
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Chaofasang School Monitor period : 23-30 Nov 2024
 Wind Speed Model : Scarlet WS-21 Serial No : AD:66
 Wind Direction Model : Scarlet WS-21 Serial No : AD:66

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	0.0060	0.0357	0.0060	0.0000	0.0000	0.0000	0.0476
NNE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0595	0.0774	0.0119	0.0000	0.0000	0.1488
WSW	0.0060	0.0060	0.0179	0.0476	0.0000	0.0000	0.0774
W	0.0060	0.0536	0.1012	0.0000	0.0000	0.0000	0.1607
WNW	0.0357	0.0774	0.0357	0.0179	0.0000	0.0000	0.1667
NW	0.0179	0.1667	0.0357	0.0000	0.0000	0.0000	0.2202
NNW	0.0119	0.0476	0.0238	0.0000	0.0000	0.0000	0.0833
CALM	0.0774						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Chaofasang School Monitor period : 23-30 Nov 2024
 Wind Speed Model : Scarlet WS-21 Serial No : AD:66
 Wind Direction Model : Scarlet WS-21 Serial No : AD:66

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
12:00 - 13:00	1.7	N	1.9	NW	1.9	NW	1.4	NNW
13:00 - 14:00	1.8	N	1.5	NW	1.4	NW	1.6	NW
14:00 - 15:00	1.7	N	1.3	NW	1.2	NNW	1.9	NW
15:00 - 16:00	1.6	N	1.2	WNW	1.4	WNW	1.9	NW
16:00 - 17:00	1.5	NNW	0.6	WSW	1.1	NW	1.7	WNW
17:00 - 18:00	1.0	N	0.2	W	0.8	NNW	1.5	WNW
18:00 - 19:00	1.0	NNW	0.1	N	0.7	N	1.0	WNW
19:00 - 20:00	0.7	NNE	0.2	WNW	0.3	NNE	1.2	WNW
20:00 - 21:00	0.3	NNE	0.5	WNW	0.1	WNW	0.7	WNW
21:00 - 22:00	0.3	NNW	0.6	NW	0.0	N	0.0	N
22:00 - 23:00	0.8	NNW	0.0	NNW	0.3	WNW	0.0	NNW
23:00 - 24:00	1.1	NNW	0.6	NW	0.4	W	0.7	WNW
00:00 - 01:00	1.8	N	0.8	NW	0.9	WNW	0.6	WNW
01:00 - 02:00	1.4	NNW	1.4	NW	1.4	WNW	1.5	WNW
02:00 - 03:00	1.5	NNW	1.5	NW	1.5	NW	1.8	NW
03:00 - 04:00	1.2	NNW	1.6	NW	2.0	WNW	1.6	NW
04:00 - 05:00	2.3	N	1.9	NW	1.9	WNW	2.1	WNW
05:00 - 06:00	2.4	NNW	1.6	NW	1.9	NW	2.6	WNW
06:00 - 07:00	2.4	NNW	1.9	NW	1.9	NW	2.8	WNW
07:00 - 08:00	2.8	NNW	2.9	NW	2.2	NW	3.0	WNW
08:00 - 09:00	2.3	NNW	2.1	NW	2.0	NW	3.0	WNW
09:00 - 10:00	2.1	NW	1.9	NW	2.3	NW	2.5	WNW
10:00 - 11:00	1.9	NW	1.6	NW	1.8	NW	2.1	WNW
11:00 - 12:00	1.8	NW	1.7	NW	1.9	NW	1.6	WNW



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Chaofasung School

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

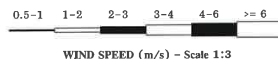
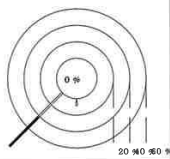
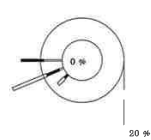
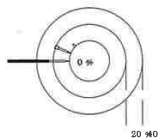
Serial No : AD:66

Wind Direction Model : Scarlet WS-21

Serial No : AD:66

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
12:00 - 13:00	1.3	NW	2.1	W	2.1	SW	
13:00 - 14:00	1.8	W	2.1	W	2.4	SW	
14:00 - 15:00	1.5	WNW	2.1	W	2.8	SW	
15:00 - 16:00	1.6	W	2.5	WSW	1.9	SW	
16:00 - 17:00	1.9	W	2.4	W	1.1	S	
17:00 - 18:00	1.3	WNW	1.9	W	0.8	S	
18:00 - 19:00	1.2	WNW	1.7	W	1.7	SW	
19:00 - 20:00	1.3	W	2.3	W	1.9	SW	
20:00 - 21:00	0.9	WNW	1.9	W	1.6	SW	
21:00 - 22:00	0.9	W	1.7	W	1.8	SW	
22:00 - 23:00	1.2	W	1.9	WSW	1.7	SW	
23:00 - 24:00	2.3	W	2.4	WSW	1.7	SW	
00:00 - 01:00	3.0	WNW	3.0	WSW	1.8	SW	
01:00 - 02:00	2.6	W	3.2	WSW	2.3	SW	
02:00 - 03:00	2.5	W	3.3	WSW	2.7	SW	
03:00 - 04:00	2.3	W	3.5	WSW	2.9	SW	
04:00 - 05:00	2.5	W	3.5	WSW	2.8	SW	
05:00 - 06:00	2.5	W	3.6	WSW	2.9	SW	
06:00 - 07:00	2.6	W	3.0	WSW	2.6	SW	
07:00 - 08:00	2.8	W	3.1	WSW	2.4	SW	
08:00 - 09:00	2.7	W	2.8	WSW	2.3	SW	
09:00 - 10:00	2.5	W	3.0	SW	2.4	SW	
10:00 - 11:00	2.2	W	3.1	SW	1.9	SW	
11:00 - 12:00	2.5	W	2.6	SW	1.8	SW	

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-224045-Chaofasung School 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

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Bangkok, Bangkok 10800

Tel:166(0)2959-3600 Fax:166(0)2959-3535



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Chumpol Nikayaram

Monitor period : 23-30 Nov 2024

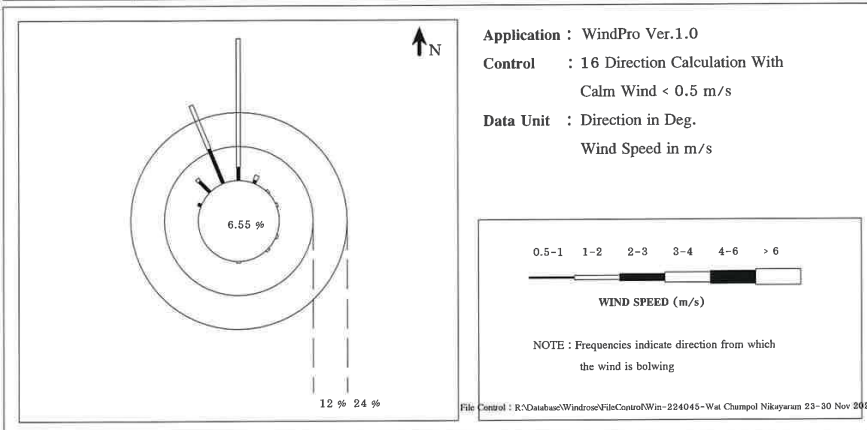
Wind Speed Model : Scarlet WS-21

Serial No : AD:63

Wind Direction Model : Scarlet WS-21

Serial No : AD:63

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0476	0.4524	0.0000	0.0000	0.0000	0.0000	0.5000
NNE	0.0119	0.0179	0.0000	0.0000	0.0000	0.0000	0.0298
NE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
ENE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
NW	0.0536	0.0119	0.0000	0.0000	0.0000	0.0000	0.0655
NNW	0.1310	0.1667	0.0000	0.0000	0.0000	0.0000	0.2976
CALM	0.0655						



(Miss Katesarin Vorradetwittaya)
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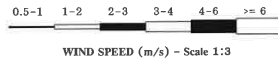
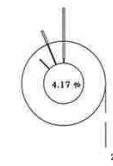
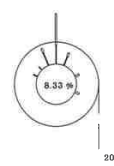
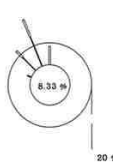
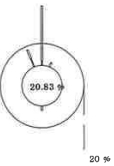


Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Chumpol Nikayaram Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:63
Wind Direction Model : Scarlet WS-21 Serial No : AD:63

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.1	N	1.2	NNW	1.1	N	1.3	N
12:00 - 13:00	1.2	NNE	1.2	NNW	1.3	NNE	1.2	N
13:00 - 14:00	1.2	S	1.1	NNW	1.2	ENE	1.1	N
14:00 - 15:00	1.1	NNW	0.9	NW	1.3	ESE	1.3	NNW
15:00 - 16:00	1.0	NNW	1.6	NW	0.9	NNW	1.2	NNW
16:00 - 17:00	0.8	NNW	1.5	NW	0.7	NNE	1.0	NNW
17:00 - 18:00	0.4	NNW	0.8	NW	0.8	N	0.8	NNW
18:00 - 19:00	0.4	NW	0.6	NW	0.7	NNE	0.6	NNW
19:00 - 20:00	0.4	E	0.5	WNW	0.5	N	0.6	NNW
20:00 - 21:00	0.3	W	0.2	W	0.2	W	0.6	NW
21:00 - 22:00	0.4	WNW	0.2	WSW	0.2	W	0.4	W
22:00 - 23:00	0.7	NNW	0.6	NW	0.5	WNW	0.8	NW
23:00 - 24:00	1.0	N	0.5	NNW	0.5	NW	0.8	NNW
00:00 - 01:00	1.0	N	0.8	NNW	0.7	NNW	0.6	NNW
01:00 - 02:00	1.1	N	0.7	NNW	0.9	N	0.9	N
02:00 - 03:00	0.9	N	0.8	NNW	1.1	N	0.9	NW
03:00 - 04:00	1.1	N	0.9	NNW	1.1	NNW	1.0	N
04:00 - 05:00	1.2	N	0.9	NNW	0.9	NNW	1.3	N
05:00 - 06:00	1.3	N	0.9	NNW	0.9	N	1.3	N
06:00 - 07:00	1.2	N	1.1	NNW	1.1	N	1.3	N
07:00 - 08:00	1.5	N	1.5	N	1.4	N	1.5	N
08:00 - 09:00	1.4	N	1.4	N	1.3	N	1.5	N
09:00 - 10:00	1.2	N	1.3	N	1.2	N	1.6	N
10:00 - 11:00	1.1	N	1.1	N	1.2	N	1.4	N

Wind Rose



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

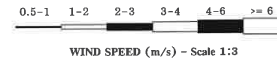
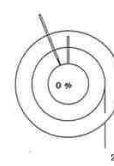
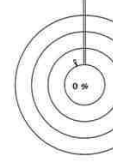
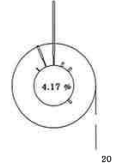


Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Chumpol Nikayaram Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:63
Wind Direction Model : Scarlet WS-21 Serial No : AD:63

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.3	NNE	1.4	N	1.3	NNW
12:00 - 13:00	1.2	NE	1.4	N	1.3	NNW
13:00 - 14:00	1.1	SE	1.4	N	1.5	NNW
14:00 - 15:00	1.0	NNW	1.6	N	1.3	NNW
15:00 - 16:00	1.1	NNW	1.5	N	1.6	NNW
16:00 - 17:00	1.2	N	1.3	N	1.8	NNW
17:00 - 18:00	0.8	N	1.1	N	1.2	NNW
18:00 - 19:00	0.9	N	1.3	NNW	1.2	NNW
19:00 - 20:00	0.6	NNW	1.2	N	1.0	NNW
20:00 - 21:00	0.3	WNW	1.1	N	0.9	NNW
21:00 - 22:00	0.5	NW	1.0	N	1.0	NNW
22:00 - 23:00	0.7	NNW	0.9	NNW	0.8	NNW
23:00 - 24:00	1.4	N	1.4	N	1.0	NNW
00:00 - 01:00	1.6	N	1.6	N	1.1	NNW
01:00 - 02:00	1.4	N	1.7	N	1.4	N
02:00 - 03:00	1.4	NNW	1.8	N	1.3	NNW
03:00 - 04:00	1.5	N	1.8	N	1.4	N
04:00 - 05:00	1.3	N	1.7	N	1.6	N
05:00 - 06:00	1.2	N	1.5	N	1.5	N
06:00 - 07:00	1.4	N	1.6	N	1.2	N
07:00 - 08:00	1.6	N	1.6	N	1.3	NNW
08:00 - 09:00	1.4	N	1.5	N	1.4	N
09:00 - 10:00	1.6	N	1.6	N	1.5	N
10:00 - 11:00	1.4	N	1.5	N	1.6	N

Wind Rose



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

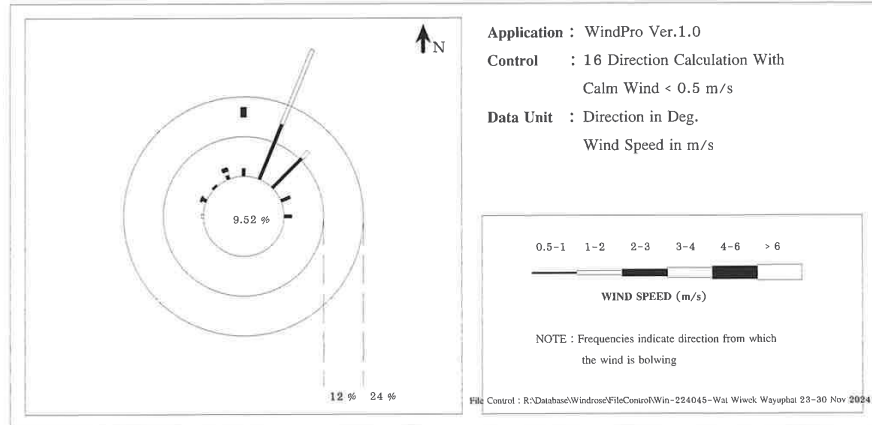
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Wiwek Wayuphat Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:20
Wind Direction Model : Scarlet WS-21 Serial No : AD:20

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	0.0238	0.1548	0.0298	0.0000	0.0000	0.0000	0.2083
NNE	0.1786	0.2440	0.0000	0.0000	0.0000	0.0000	0.4226
NE	0.1250	0.0298	0.0000	0.0000	0.0000	0.0000	0.1548
ENE	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0298
E	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0238
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
WNW	0.0119	0.0000	0.0060	0.0000	0.0000	0.0000	0.0179
NW	0.0000	0.0000	0.0060	0.0000	0.0000	0.0000	0.0060
NNW	0.0119	0.0119	0.0119	0.0000	0.0000	0.0000	0.0357
CALM	0.0952						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Wiwek Wayuphat Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:20
Wind Direction Model : Scarlet WS-21 Serial No : AD:20

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	0.8	NNW	0.8	NE	0.9	NE	0.9	NE
10:00 - 11:00	1.0	NNE	1.0	NNE	0.9	NNE	1.0	NNE
11:00 - 12:00	0.9	NE	0.8	NE	1.0	NNE	1.1	N
12:00 - 13:00	1.0	NNE	1.0	NE	1.0	NNE	1.2	N
13:00 - 14:00	1.0	NE	1.0	NNE	0.8	NNE	0.9	NNE
14:00 - 15:00	0.9	NE	2.1	NW	0.8	NE	0.9	NNE
15:00 - 16:00	0.7	ENE	1.9	NNW	0.6	ENE	0.9	NNE
16:00 - 17:00	0.4	ENE	2.1	WNW	0.7	E	0.6	NE
17:00 - 18:00	0.3	NE	1.1	W	0.7	E	0.6	NE
18:00 - 19:00	0.4	ENE	0.7	N	0.7	E	0.6	NNE
19:00 - 20:00	0.5	E	0.3	NE	0.6	ENE	0.8	NNE
20:00 - 21:00	0.2	ENE	0.1	ENE	0.4	ENE	0.7	NNW
21:00 - 22:00	0.2	NE	0.3	NNE	0.1	NE	0.5	WNW
22:00 - 23:00	0.9	NNE	0.4	NW	0.7	WNW	0.7	N
23:00 - 24:00	0.9	NNE	0.6	N	0.4	W	1.6	NNW
00:00 - 01:00	0.6	NNE	0.8	NNE	1.2	N	1.1	N
01:00 - 02:00	0.9	NNE	1.1	N	0.8	NNE	0.6	NE
02:00 - 03:00	0.9	N	1.2	N	0.6	NNE	0.6	ENE
03:00 - 04:00	1.0	N	1.5	N	0.8	NNE	0.4	NE
04:00 - 05:00	0.7	NNE	1.5	N	0.6	NE	0.8	NNE
05:00 - 06:00	0.7	NNE	1.8	N	0.5	NE	0.9	NNE
06:00 - 07:00	0.9	NNE	1.4	N	0.7	NNE	1.0	NNE
07:00 - 08:00	1.0	NNE	1.2	NNE	0.8	NE	1.3	NNE
08:00 - 09:00	0.9	NNE	0.9	NNE	0.9	NE	1.2	NNE



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

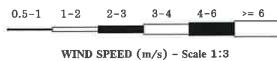


Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Wat Wiwek Wayuphat Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:20
Wind Direction Model : Scarlet WS-21 Serial No : AD:20

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
09:00 - 10:00	1.0	NNE	1.2	NNE	1.4	NNE	
10:00 - 11:00	1.0	NE	1.2	NNE	1.4	NNE	
11:00 - 12:00	1.0	NE	1.4	N	1.5	N	
12:00 - 13:00	1.1	N	1.2	NNE	1.3	NNE	
13:00 - 14:00	1.1	N	1.1	NNE	1.3	NNE	
14:00 - 15:00	0.8	ENE	1.0	NE	1.6	N	
15:00 - 16:00	0.9	NNE	1.1	NNE	1.8	N	
16:00 - 17:00	0.7	NE	1.0	NNE	2.7	NNW	
17:00 - 18:00	0.5	NE	0.7	NE	2.8	NNW	
18:00 - 19:00	0.3	ENE	0.7	NE	2.4	N	
19:00 - 20:00	0.3	ENE	0.8	NNE	2.0	N	
20:00 - 21:00	0.1	ENE	0.6	NE	1.8	N	
21:00 - 22:00	0.5	NNE	0.6	NE	1.3	N	
22:00 - 23:00	1.2	N	0.6	NE	1.4	N	
23:00 - 24:00	1.2	NNE	0.8	NNE	1.4	N	
00:00 - 01:00	1.2	NNE	1.3	NNE	2.1	N	
01:00 - 02:00	1.0	NNE	1.3	N	2.2	N	
02:00 - 03:00	1.0	NNE	1.4	NNE	2.1	N	
03:00 - 04:00	1.1	NNE	1.4	NNE	1.8	N	
04:00 - 05:00	1.1	NNE	1.5	NNE	1.3	N	
05:00 - 06:00	0.9	NNE	1.4	NNE	1.1	N	
06:00 - 07:00	1.0	NNE	1.2	NNE	0.8	NNE	
07:00 - 08:00	1.2	NNE	1.2	NNE	0.9	NNE	
08:00 - 09:00	1.1	NNE	1.1	NNE	1.0	NNE	

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-224045-Wat Wiwek Wayuphat 23-30 Nov 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

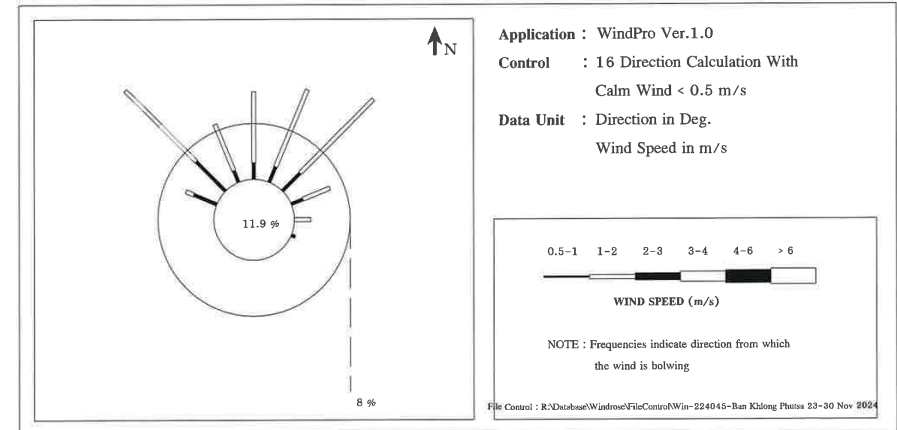
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Ban Khlong Phutsa Monitor period : 23-30 Nov 2024
Wind Speed Model : Scarlet WS-21 Serial No : AD:64
Wind Direction Model : Scarlet WS-21 Serial No : AD:64

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0238	0.1012	0.0000	0.0000	0.0000	0.0000	0.1250
NNE	0.0238	0.1190	0.0000	0.0000	0.0000	0.0000	0.1429
NE	0.0357	0.1488	0.0000	0.0000	0.0000	0.0000	0.1845
ENE	0.0179	0.0417	0.0000	0.0000	0.0000	0.0000	0.0595
E	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0238
ESE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0357	0.0119	0.0000	0.0000	0.0000	0.0000	0.0476
NW	0.0595	0.1429	0.0000	0.0000	0.0000	0.0000	0.2024
NNW	0.0179	0.0714	0.0000	0.0000	0.0000	0.0000	0.0893
CALM	0.1190						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Ban Khlong Phutsa

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

Serial No : AD:64

Wind Direction Model : Scarlet WS-21

Serial No : AD:64

Time	23-24 Nov 2024		24-25 Nov 2024		25-26 Nov 2024		26-27 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	1.3	NNE	1.3	ENE	1.5	ENE	1.4	NE
10:00 - 11:00	1.3	NE	1.3	N	1.4	NNE	1.4	NNW
11:00 - 12:00	1.3	NE	1.3	NNW	1.3	N	1.4	NNE
12:00 - 13:00	1.4	NNE	1.5	NW	1.4	NW	1.4	NE
13:00 - 14:00	1.4	ENE	1.4	NNE	1.3	ENE	1.3	N
14:00 - 15:00	1.4	N	1.3	E	1.3	ENE	1.4	NNW
15:00 - 16:00	1.2	NW	1.2	WNW	1.3	NE	1.3	NNW
16:00 - 17:00	0.9	N	1.3	NW	1.1	E	1.2	NNW
17:00 - 18:00	0.5	NW	1.2	WNW	1.1	E	0.6	NW
18:00 - 19:00	0.6	NNE	0.8	NW	1.1	E	0.3	WNW
19:00 - 20:00	0.9	ESE	0.4	WNW	0.8	ENE	0.4	W
20:00 - 21:00	0.2	WNW	0.4	NNE	0.5	NNE	0.5	WNW
21:00 - 22:00	0.0	W	0.0	W	0.1	WNW	0.3	NW
22:00 - 23:00	0.1	W	0.0	W	0.2	WNW	0.6	NW
23:00 - 24:00	0.8	NW	0.0	W	0.3	W	0.9	NW
00:00 - 01:00	0.6	WNW	0.0	W	0.0	W	1.0	NW
01:00 - 02:00	0.8	NNW	0.1	W	0.7	WNW	0.5	WNW
02:00 - 03:00	0.9	NNW	0.5	WNW	0.6	NNE	0.8	NE
03:00 - 04:00	0.8	NW	0.8	NW	0.7	NW	0.8	NE
04:00 - 05:00	0.7	NW	1.1	NW	0.7	NNW	0.8	NE
05:00 - 06:00	0.9	NNE	1.1	NW	0.8	ENE	1.0	NNW
06:00 - 07:00	1.0	NE	1.3	NW	0.9	NE	1.1	N
07:00 - 08:00	1.3	NE	1.3	NNW	1.2	NNE	1.3	NNE
08:00 - 09:00	1.5	NE	1.5	NNE	1.4	NE	1.8	NE

Wind Rose



12 %

12 %

0.5-1 1-2 2-3 3-4 4-6 >= 6

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

SECOT CO.,LTD

239 Rimklonggrape Rd.
Bangnae, Bangkok 10800

Tel:166(0)2959-3600 Fax:166(0)2959-3535



Meteorological Monitoring Results : Wind Rose MTR-BIC

Location : Ban Khlong Phutsa

Monitor period : 23-30 Nov 2024

Wind Speed Model : Scarlet WS-21

Serial No : AD:64

Wind Direction Model : Scarlet WS-21

Serial No : AD:64

Time	27-28 Nov 2024		28-29 Nov 2024		29-30 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	1.5	NE	1.8	NE	1.7	NNE
10:00 - 11:00	1.5	ENE	1.6	NE	1.6	NNE
11:00 - 12:00	1.5	NE	1.7	N	1.6	N
12:00 - 13:00	1.3	ENE	1.6	N	1.7	NNW
13:00 - 14:00	1.1	NNE	1.6	NNW	1.6	NW
14:00 - 15:00	1.1	N	1.5	NNE	1.6	N
15:00 - 16:00	1.3	NW	1.5	N	1.7	NNW
16:00 - 17:00	1.1	NW	1.3	N	1.8	NW
17:00 - 18:00	1.0	NE	1.1	NE	1.6	NW
18:00 - 19:00	0.7	NE	1.0	NE	1.6	NW
19:00 - 20:00	0.2	NW	1.0	NE	1.4	NW
20:00 - 21:00	0.4	NE	0.9	NE	1.4	NW
21:00 - 22:00	0.2	WNW	0.9	ENE	1.2	NW
22:00 - 23:00	0.5	WNW	0.9	N	1.1	NW
23:00 - 24:00	1.1	NW	0.8	N	1.2	NW
00:00 - 01:00	1.3	NNE	1.3	NNE	1.4	NW
01:00 - 02:00	1.3	NE	1.4	NNW	1.5	NW
02:00 - 03:00	1.3	NE	1.3	N	1.2	NNW
03:00 - 04:00	1.0	NE	1.6	N	1.5	NW
04:00 - 05:00	1.2	NNE	1.5	N	1.3	NW
05:00 - 06:00	1.1	NE	1.4	N	1.2	NNE
06:00 - 07:00	1.1	NNE	1.3	NNE	0.9	N
07:00 - 08:00	1.4	NE	1.6	NNE	1.1	N
08:00 - 09:00	1.7	NE	1.4	NE	1.3	NNE

Wind Rose



20 %

20 %

20 %

0.5-1 1-2 2-3 3-4 4-6 >= 6

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

SECOT CO.,LTD

239 Rimklonggrape Rd.
Bangnae, Bangkok 10800

Tel:166(0)2959-3600 Fax:166(0)2959-3535



Ambient Air Monitoring Results : Nitrogen dioxide MTR-BIC

Location : Wat Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : API 200A Station No : SECOT-01
Serial No : 2387 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
08:00 - 09:00	0.0079	0.0070	0.0057	0.0097	0.0046	0.0069	0.0046
09:00 - 10:00	0.0064	0.0053	0.0070	0.0099	0.0075	0.0091	0.0074
10:00 - 11:00	0.0092	0.0057	0.0077	0.0096	0.0079	0.0047	0.0071
11:00 - 12:00	0.0099	0.0100	0.0052	0.0072	0.0056	0.0099	0.0096
12:00 - 13:00	0.0058	0.0100	0.0097	0.0090	0.0066	0.0084	0.0054
13:00 - 14:00	0.0065	0.0056	0.0062	0.0103	0.0108	0.0086	0.0051
14:00 - 15:00	0.0055	0.0048	0.0079	0.0086	0.0075	0.0086	0.0098
15:00 - 16:00	0.0068	0.0056	0.0072	0.0069	0.0070	0.0094	0.0103
16:00 - 17:00	0.0082	0.0098	0.0057	0.0095	0.0048	0.0090	0.0079
17:00 - 18:00	0.0067	0.0061	0.0064	0.0073	0.0068	0.0050	0.0094
18:00 - 19:00	0.0073	0.0067	0.0050	0.0091	0.0086	0.0077	0.0092
19:00 - 20:00	0.0067	0.0065	0.0067	0.0067	0.0047	0.0069	0.0071
20:00 - 21:00	0.0089	0.0094	0.0076	0.0089	0.0096	0.0084	0.0096
21:00 - 22:00	0.0066	0.0088	0.0100	0.0102	0.0073	0.0083	0.0077
22:00 - 23:00	0.0066	0.0059	0.0087	0.0067	0.0058	0.0096	0.0086
23:00 - 00:00	0.0085	0.0060	0.0087	0.0075	0.0078	0.0076	0.0079
00:00 - 01:00	0.0092	0.0093	0.0079	0.0058	0.0103	0.0083	0.0069
01:00 - 02:00	0.0085	0.0065	0.0070	0.0071	0.0087	0.0093	0.0082
02:00 - 03:00	0.0092	0.0070	0.0087	0.0055	0.0063	0.0061	0.0062
03:00 - 04:00	0.0101	0.0084	0.0070	0.0069	0.0073	0.0088	0.0053
04:00 - 05:00	0.0071	0.0076	0.0080	0.0075	0.0103	0.0074	0.0066
05:00 - 06:00	0.0098	0.0084	0.0088	0.0078	0.0048	0.0053	0.0051
06:00 - 07:00	0.0077	0.0072	0.0062	0.0088	0.0055	0.0072	0.0068
07:00 - 08:00	0.0053	0.0053	0.0086	0.0063	0.0095	0.0093	0.0061
Average-24Hr*	0.0077	0.0072	0.0074	0.0080	0.0073	0.0079	0.0074
Max-1Hr	0.0101	0.0100	0.0100	0.0103	0.0108	0.0099	0.0103
Min-1Hr	0.0053	0.0048	0.0050	0.0055	0.0046	0.0047	0.0046
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 08:00-08:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-BIC

Location : Ban Bang Krasun Monitor Period : 23-30 Nov 2024
Analyzer Model : API 200A Station No : SECOT-03
Serial No : 2365 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
10:00 - 11:00	0.0051	0.0085	0.0117	0.0112	0.0108	0.0106	0.0120
11:00 - 12:00	0.0069	0.0095	0.0118	0.0117	0.0073	0.0088	0.0121
12:00 - 13:00	0.0087	0.0132	0.0118	0.0105	0.0123	0.0119	0.0100
13:00 - 14:00	0.0105	0.0134	0.0112	0.0122	0.0121	0.0069	0.0092
14:00 - 15:00	0.0120	0.0082	0.0096	0.0121	0.0105	0.0086	0.0092
15:00 - 16:00	0.0138	0.0104	0.0119	0.0116	0.0083	0.0077	0.0087
16:00 - 17:00	0.0113	0.0095	0.0072	0.0112	0.0108	0.0085	0.0090
17:00 - 18:00	0.0080	0.0073	0.0122	0.0105	0.0106	0.0073	0.0086
18:00 - 19:00	0.0103	0.0089	0.0107	0.0087	0.0073	0.0110	0.0114
19:00 - 20:00	0.0105	0.0081	0.0111	0.0096	0.0091	0.0101	0.0083
20:00 - 21:00	0.0089	0.0087	0.0098	0.0077	0.0090	0.0085	0.0090
21:00 - 22:00	0.0079	0.0078	0.0104	0.0110	0.0111	0.0093	0.0099
22:00 - 23:00	0.0074	0.0069	0.0093	0.0114	0.0092	0.0091	0.0084
23:00 - 00:00	0.0081	0.0071	0.0090	0.0084	0.0123	0.0095	0.0113
00:00 - 01:00	0.0090	0.0086	0.0092	0.0086	0.0106	0.0096	0.0072
01:00 - 02:00	0.0085	0.0067	0.0090	0.0085	0.0100	0.0086	0.0080
02:00 - 03:00	0.0080	0.0074	0.0074	0.0078	0.0102	0.0095	0.0070
03:00 - 04:00	0.0065	0.0067	0.0086	0.0077	0.0110	0.0084	0.0097
04:00 - 05:00	0.0083	0.0088	0.0081	0.0081	0.0083	0.0089	0.0101
05:00 - 06:00	0.0088	0.0101	0.0090	0.0085	0.0083	0.0107	0.0107
06:00 - 07:00	0.0095	0.0088	0.0084	0.0126	0.0087	0.0092	0.0090
07:00 - 08:00	0.0080	0.0075	0.0089	0.0133	0.0098	0.0114	0.0102
08:00 - 09:00	0.0109	0.0115	0.0082	0.0090	0.0086	0.0110	0.0110
09:00 - 10:00	0.0100	0.0103	0.0103	0.0082	0.0108	0.0081	0.0101
Average-24Hr*	0.0090	0.0089	0.0098	0.0100	0.0099	0.0093	0.0096
Max-1Hr	0.0138	0.0134	0.0122	0.0133	0.0123	0.0119	0.0121
Min-1Hr	0.0051	0.0067	0.0072	0.0077	0.0073	0.0069	0.0070
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Nitrogen dioxide
MTR-BIC**


Location : Chaofasang School Monitor Period : 23-30 Nov 2024
Analyzer Model : API 200A Station No : SECOT-06
Serial No : 1528 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
12:00 - 13:00	0.0059	0.0142	0.0118	0.0114	0.0143	0.0092	0.0130
13:00 - 14:00	0.0089	0.0103	0.0085	0.0092	0.0133	0.0092	0.0101
14:00 - 15:00	0.0119	0.0119	0.0092	0.0098	0.0085	0.0110	0.0110
15:00 - 16:00	0.0083	0.0113	0.0098	0.0092	0.0104	0.0129	0.0120
16:00 - 17:00	0.0119	0.0090	0.0104	0.0080	0.0101	0.0123	0.0092
17:00 - 18:00	0.0121	0.0110	0.0126	0.0119	0.0120	0.0138	0.0105
18:00 - 19:00	0.0130	0.0096	0.0104	0.0121	0.0130	0.0113	0.0110
19:00 - 20:00	0.0082	0.0107	0.0121	0.0114	0.0109	0.0108	0.0106
20:00 - 21:00	0.0088	0.0092	0.0103	0.0134	0.0114	0.0126	0.0134
21:00 - 22:00	0.0101	0.0094	0.0113	0.0101	0.0139	0.0115	0.0134
22:00 - 23:00	0.0121	0.0131	0.0125	0.0123	0.0107	0.0103	0.0125
23:00 - 00:00	0.0125	0.0109	0.0119	0.0118	0.0101	0.0131	0.0129
00:00 - 01:00	0.0115	0.0127	0.0090	0.0128	0.0118	0.0130	0.0089
01:00 - 02:00	0.0122	0.0094	0.0120	0.0085	0.0126	0.0116	0.0096
02:00 - 03:00	0.0120	0.0092	0.0131	0.0118	0.0080	0.0117	0.0138
03:00 - 04:00	0.0139	0.0104	0.0109	0.0109	0.0097	0.0129	0.0102
04:00 - 05:00	0.0130	0.0117	0.0091	0.0129	0.0111	0.0129	0.0130
05:00 - 06:00	0.0081	0.0109	0.0119	0.0099	0.0121	0.0132	0.0111
06:00 - 07:00	0.0111	0.0108	0.0115	0.0132	0.0098	0.0131	0.0130
07:00 - 08:00	0.0129	0.0083	0.0136	0.0110	0.0129	0.0102	0.0093
08:00 - 09:00	0.0117	0.0120	0.0112	0.0139	0.0125	0.0103	0.0096
09:00 - 10:00	0.0120	0.0084	0.0123	0.0105	0.0114	0.0122	0.0120
10:00 - 11:00	0.0118	0.0126	0.0110	0.0121	0.0123	0.0094	0.0087
11:00 - 12:00	0.0101	0.0089	0.0103	0.0110	0.0123	0.0124	0.0135
Average-24Hr*	0.0110	0.0107	0.0111	0.0112	0.0115	0.0117	0.0113
Max-1Hr	0.0139	0.0142	0.0136	0.0139	0.0143	0.0138	0.0138
Min-1Hr	0.0059	0.0083	0.0085	0.0080	0.0080	0.0092	0.0087
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Nitrogen dioxide
MTR-BIC**


Location : Wat Chumpol Nikayaram Monitor Period : 23-30 Nov 2024
Analyzer Model : RP 8400N Station No : SECOT-05
Serial No : 096 Site Operator : Mr. Wittaya Krataychan

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	NO2 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
11:00 - 12:00	0.0062	0.0121	0.0094	0.0086	0.0137	0.0079	0.0123
12:00 - 13:00	0.0078	0.0143	0.0108	0.0090	0.0109	0.0123	0.0116
13:00 - 14:00	0.0094	0.0076	0.0086	0.0088	0.0098	0.0094	0.0095
14:00 - 15:00	0.0110	0.0093	0.0125	0.0103	0.0076	0.0094	0.0066
15:00 - 16:00	0.0096	0.0103	0.0141	0.0107	0.0109	0.0128	0.0086
16:00 - 17:00	0.0097	0.0073	0.0096	0.0132	0.0099	0.0095	0.0136
17:00 - 18:00	0.0081	0.0091	0.0101	0.0099	0.0086	0.0128	0.0124
18:00 - 19:00	0.0076	0.0091	0.0075	0.0131	0.0080	0.0083	0.0112
19:00 - 20:00	0.0076	0.0090	0.0076	0.0082	0.0090	0.0092	0.0088
20:00 - 21:00	0.0058	0.0082	0.0096	0.0108	0.0088	0.0096	0.0071
21:00 - 22:00	0.0064	0.0070	0.0067	0.0097	0.0098	0.0066	0.0085
22:00 - 23:00	0.0065	0.0059	0.0064	0.0079	0.0064	0.0088	0.0096
23:00 - 00:00	0.0058	0.0088	0.0079	0.0104	0.0064	0.0079	0.0096
00:00 - 01:00	0.0074	0.0077	0.0065	0.0066	0.0073	0.0080	0.0097
01:00 - 02:00	0.0083	0.0073	0.0080	0.0078	0.0065	0.0082	0.0063
02:00 - 03:00	0.0084	0.0079	0.0068	0.0083	0.0095	0.0085	0.0090
03:00 - 04:00	0.0067	0.0064	0.0065	0.0084	0.0076	0.0060	0.0078
04:00 - 05:00	0.0079	0.0066	0.0067	0.0091	0.0069	0.0077	0.0080
05:00 - 06:00	0.0076	0.0091	0.0083	0.0086	0.0088	0.0078	0.0101
06:00 - 07:00	0.0091	0.0087	0.0084	0.0091	0.0116	0.0079	0.0085
07:00 - 08:00	0.0111	0.0103	0.0113	0.0096	0.0124	0.0096	0.0120
08:00 - 09:00	0.0075	0.0124	0.0114	0.0109	0.0098	0.0121	0.0100
09:00 - 10:00	0.0144	0.0090	0.0125	0.0133	0.0120	0.0125	0.0107
10:00 - 11:00	0.0089	0.0102	0.0103	0.0111	0.0124	0.0101	0.0095
Average-24Hr*	0.0083	0.0089	0.0091	0.0096	0.0094	0.0093	0.0096
Max-1Hr	0.0144	0.0143	0.0141	0.0133	0.0137	0.0128	0.0136
Min-1Hr	0.0058	0.0059	0.0064	0.0066	0.0064	0.0060	0.0063
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Nitrogen dioxide
MTR-BIC**


Location : Wat Wiwek Wayuphat Monitor Period : 23-30 Nov 2024
Analyzer Model : Teledyne T200 Station No : SECOT-04
Serial No : 110 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0060	0.0063	0.0060	0.0107	0.0090	0.0074	0.0104
10:00 - 11:00	0.0074	0.0099	0.0083	0.0077	0.0068	0.0066	0.0084
11:00 - 12:00	0.0088	0.0075	0.0081	0.0072	0.0076	0.0070	0.0087
12:00 - 13:00	0.0102	0.0063	0.0076	0.0062	0.0077	0.0083	0.0090
13:00 - 14:00	0.0090	0.0072	0.0084	0.0080	0.0096	0.0070	0.0067
14:00 - 15:00	0.0060	0.0099	0.0065	0.0100	0.0086	0.0093	0.0104
15:00 - 16:00	0.0072	0.0077	0.0073	0.0073	0.0076	0.0071	0.0081
16:00 - 17:00	0.0085	0.0079	0.0095	0.0079	0.0061	0.0084	0.0098
17:00 - 18:00	0.0082	0.0088	0.0060	0.0094	0.0091	0.0065	0.0085
18:00 - 19:00	0.0083	0.0071	0.0073	0.0090	0.0088	0.0074	0.0069
19:00 - 20:00	0.0102	0.0070	0.0083	0.0088	0.0081	0.0063	0.0090
20:00 - 21:00	0.0090	0.0093	0.0103	0.0075	0.0066	0.0103	0.0090
21:00 - 22:00	0.0064	0.0101	0.0071	0.0069	0.0083	0.0073	0.0079
22:00 - 23:00	0.0105	0.0076	0.0071	0.0072	0.0071	0.0069	0.0076
23:00 - 00:00	0.0088	0.0074	0.0104	0.0080	0.0090	0.0095	0.0094
00:00 - 01:00	0.0102	0.0069	0.0075	0.0071	0.0079	0.0068	0.0101
01:00 - 02:00	0.0095	0.0104	0.0076	0.0075	0.0085	0.0084	0.0073
02:00 - 03:00	0.0061	0.0067	0.0074	0.0062	0.0093	0.0085	0.0064
03:00 - 04:00	0.0070	0.0099	0.0075	0.0072	0.0071	0.0108	0.0080
04:00 - 05:00	0.0068	0.0063	0.0092	0.0086	0.0077	0.0091	0.0071
05:00 - 06:00	0.0091	0.0090	0.0074	0.0086	0.0102	0.0073	0.0084
06:00 - 07:00	0.0083	0.0064	0.0103	0.0080	0.0079	0.0064	0.0061
07:00 - 08:00	0.0095	0.0090	0.0094	0.0084	0.0100	0.0080	0.0100
08:00 - 09:00	0.0064	0.0093	0.0099	0.0095	0.0089	0.0065	0.0071
Average-24Hr*	0.0082	0.0081	0.0081	0.0081	0.0082	0.0078	0.0085
Max-1Hr	0.0105	0.0104	0.0104	0.0107	0.0102	0.0108	0.0104
Min-1Hr	0.0060	0.0063	0.0060	0.0062	0.0061	0.0063	0.0061
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Nitrogen dioxide
MTR-BIC**


Location : Ban Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : API 200A Station No : SECOT-02
Serial No : 074 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0087	0.0099	0.0098	0.0087	0.0099	0.0114	0.0101
10:00 - 11:00	0.0099	0.0109	0.0078	0.0092	0.0109	0.0073	0.0081
11:00 - 12:00	0.0111	0.0089	0.0117	0.0082	0.0076	0.0121	0.0067
12:00 - 13:00	0.0087	0.0119	0.0078	0.0087	0.0109	0.0119	0.0118
13:00 - 14:00	0.0077	0.0079	0.0127	0.0092	0.0108	0.0124	0.0097
14:00 - 15:00	0.0085	0.0083	0.0076	0.0070	0.0115	0.0075	0.0104
15:00 - 16:00	0.0091	0.0118	0.0115	0.0087	0.0115	0.0093	0.0096
16:00 - 17:00	0.0086	0.0122	0.0090	0.0111	0.0078	0.0092	0.0113
17:00 - 18:00	0.0085	0.0105	0.0118	0.0106	0.0096	0.0117	0.0114
18:00 - 19:00	0.0105	0.0071	0.0087	0.0097	0.0102	0.0089	0.0109
19:00 - 20:00	0.0086	0.0125	0.0128	0.0096	0.0092	0.0075	0.0093
20:00 - 21:00	0.0107	0.0066	0.0093	0.0091	0.0107	0.0072	0.0096
21:00 - 22:00	0.0096	0.0079	0.0093	0.0099	0.0121	0.0080	0.0092
22:00 - 23:00	0.0114	0.0075	0.0075	0.0076	0.0089	0.0092	0.0102
23:00 - 00:00	0.0068	0.0102	0.0094	0.0114	0.0094	0.0075	0.0130
00:00 - 01:00	0.0078	0.0082	0.0078	0.0118	0.0086	0.0082	0.0076
01:00 - 02:00	0.0097	0.0079	0.0087	0.0082	0.0119	0.0084	0.0089
02:00 - 03:00	0.0081	0.0074	0.0085	0.0097	0.0075	0.0100	0.0091
03:00 - 04:00	0.0079	0.0078	0.0079	0.0089	0.0086	0.0100	0.0091
04:00 - 05:00	0.0082	0.0077	0.0093	0.0101	0.0083	0.0096	0.0078
05:00 - 06:00	0.0072	0.0083	0.0086	0.0078	0.0080	0.0099	0.0075
06:00 - 07:00	0.0116	0.0085	0.0079	0.0084	0.0086	0.0093	0.0133
07:00 - 08:00	0.0110	0.0117	0.0106	0.0120	0.0099	0.0094	0.0097
08:00 - 09:00	0.0102	0.0123	0.0077	0.0093	0.0080	0.0095	0.0088
Average-24Hr*	0.0092	0.0095	0.0093	0.0094	0.0096	0.0094	0.0097
Max-1Hr	0.0114	0.0125	0.0128	0.0120	0.0121	0.0124	0.0133
Min-1Hr	0.0068	0.0066	0.0075	0.0070	0.0075	0.0072	0.0067
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BIC

Location : Wat Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : Teledyne T100 Station No : SECOT-01
Serial No : 120 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
08:00 - 09:00	0.0015	0.0036	0.0022	0.0021	0.0037	0.0032	0.0033
09:00 - 10:00	0.0007	0.0029	0.0035	0.0034	0.0024	0.0036	0.0021
10:00 - 11:00	0.0019	0.0019	0.0033	0.0032	0.0035	0.0036	0.0028
11:00 - 12:00	0.0031	0.0018	0.0035	0.0035	0.0025	0.0034	0.0037
12:00 - 13:00	0.0019	0.0037	0.0029	0.0030	0.0023	0.0030	0.0028
13:00 - 14:00	0.0020	0.0030	0.0025	0.0022	0.0034	0.0032	0.0020
14:00 - 15:00	0.0020	0.0035	0.0024	0.0022	0.0036	0.0035	0.0037
15:00 - 16:00	0.0030	0.0027	0.0021	0.0032	0.0025	0.0034	0.0031
16:00 - 17:00	0.0032	0.0036	0.0033	0.0031	0.0031	0.0023	0.0024
17:00 - 18:00	0.0034	0.0033	0.0030	0.0036	0.0025	0.0018	0.0034
18:00 - 19:00	0.0030	0.0033	0.0020	0.0032	0.0036	0.0021	0.0027
19:00 - 20:00	0.0026	0.0037	0.0033	0.0021	0.0037	0.0023	0.0020
20:00 - 21:00	0.0031	0.0029	0.0032	0.0030	0.0018	0.0030	0.0028
21:00 - 22:00	0.0028	0.0024	0.0026	0.0025	0.0024	0.0032	0.0032
22:00 - 23:00	0.0035	0.0036	0.0022	0.0028	0.0023	0.0032	0.0033
23:00 - 00:00	0.0028	0.0031	0.0027	0.0032	0.0030	0.0023	0.0023
00:00 - 01:00	0.0021	0.0037	0.0024	0.0027	0.0031	0.0035	0.0026
01:00 - 02:00	0.0032	0.0033	0.0035	0.0034	0.0036	0.0037	0.0023
02:00 - 03:00	0.0031	0.0034	0.0029	0.0031	0.0037	0.0035	0.0020
03:00 - 04:00	0.0026	0.0018	0.0033	0.0035	0.0036	0.0032	0.0019
04:00 - 05:00	0.0037	0.0027	0.0024	0.0024	0.0019	0.0033	0.0033
05:00 - 06:00	0.0028	0.0035	0.0018	0.0023	0.0033	0.0023	0.0021
06:00 - 07:00	0.0025	0.0031	0.0035	0.0019	0.0033	0.0037	0.0023
07:00 - 08:00	0.0029	0.0037	0.0027	0.0028	0.0029	0.0035	0.0031
Average-24Hr*	0.0026	0.0031	0.0028	0.0029	0.0030	0.0031	0.0027
Max-1Hr	0.0037	0.0037	0.0035	0.0036	0.0037	0.0037	0.0037
Min-1Hr	0.0007	0.0018	0.0018	0.0019	0.0018	0.0018	0.0019
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 08:00-08:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BIC

Location : Ban Bang Krasun Monitor Period : 23-30 Nov 2024
Analyzer Model : Thermo 43C Station No : SECOT-03
Serial No : 0607415773 Site Operator : Mr. Wittaya Krataychan

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	SO2 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
10:00 - 11:00	0.0016	0.0038	0.0040	0.0021	0.0020	0.0038	0.0033
11:00 - 12:00	0.0002	0.0021	0.0038	0.0039	0.0028	0.0032	0.0030
12:00 - 13:00	0.0020	0.0031	0.0029	0.0024	0.0020	0.0026	0.0032
13:00 - 14:00	0.0038	0.0038	0.0028	0.0030	0.0038	0.0026	0.0036
14:00 - 15:00	0.0040	0.0026	0.0027	0.0027	0.0033	0.0036	0.0026
15:00 - 16:00	0.0035	0.0032	0.0029	0.0030	0.0025	0.0035	0.0034
16:00 - 17:00	0.0032	0.0040	0.0023	0.0024	0.0040	0.0025	0.0036
17:00 - 18:00	0.0031	0.0035	0.0031	0.0036	0.0032	0.0035	0.0038
18:00 - 19:00	0.0036	0.0026	0.0025	0.0038	0.0039	0.0033	0.0027
19:00 - 20:00	0.0039	0.0033	0.0033	0.0033	0.0031	0.0030	0.0035
20:00 - 21:00	0.0033	0.0026	0.0019	0.0036	0.0040	0.0024	0.0039
21:00 - 22:00	0.0028	0.0039	0.0023	0.0028	0.0020	0.0039	0.0034
22:00 - 23:00	0.0023	0.0033	0.0040	0.0020	0.0028	0.0036	0.0025
23:00 - 00:00	0.0028	0.0027	0.0040	0.0035	0.0029	0.0036	0.0038
00:00 - 01:00	0.0030	0.0037	0.0029	0.0024	0.0032	0.0019	0.0022
01:00 - 02:00	0.0035	0.0035	0.0031	0.0028	0.0034	0.0032	0.0021
02:00 - 03:00	0.0033	0.0025	0.0026	0.0026	0.0036	0.0028	0.0034
03:00 - 04:00	0.0039	0.0040	0.0038	0.0022	0.0040	0.0040	0.0037
04:00 - 05:00	0.0027	0.0029	0.0028	0.0033	0.0024	0.0032	0.0038
05:00 - 06:00	0.0032	0.0020	0.0029	0.0032	0.0023	0.0023	0.0023
06:00 - 07:00	0.0040	0.0032	0.0034	0.0038	0.0020	0.0024	0.0027
07:00 - 08:00	0.0027	0.0040	0.0031	0.0023	0.0024	0.0036	0.0020
08:00 - 09:00	0.0037	0.0034	0.0026	0.0036	0.0022	0.0035	0.0026
09:00 - 10:00	0.0027	0.0035	0.0019	0.0040	0.0036	0.0028	0.0022
Average-24Hr*	0.0030	0.0032	0.0030	0.0030	0.0030	0.0031	0.0031
Max-1Hr	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0039
Min-1Hr	0.0002	0.0020	0.0019	0.0020	0.0020	0.0019	0.0020
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-BIC

Location : Chaofasang School Monitor Period : 23-30 Nov 2024
Analyzer Model : API 100A Station No : SECOT-06
Serial No : 347 Site Operator : Mr. Wittaya Krataychan

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 (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
12:00 - 13:00	0.0038	0.0035	0.0038	0.0036	0.0047	0.0043	0.0048
13:00 - 14:00	0.0037	0.0033	0.0038	0.0035	0.0035	0.0032	0.0035
14:00 - 15:00	0.0036	0.0046	0.0044	0.0034	0.0041	0.0048	0.0040
15:00 - 16:00	0.0031	0.0036	0.0031	0.0034	0.0036	0.0033	0.0043
16:00 - 17:00	0.0037	0.0043	0.0030	0.0042	0.0043	0.0034	0.0042
17:00 - 18:00	0.0032	0.0035	0.0046	0.0035	0.0040	0.0040	0.0039
18:00 - 19:00	0.0032	0.0038	0.0047	0.0044	0.0030	0.0034	0.0047
19:00 - 20:00	0.0046	0.0031	0.0040	0.0040	0.0031	0.0037	0.0040
20:00 - 21:00	0.0041	0.0036	0.0032	0.0044	0.0034	0.0033	0.0038
21:00 - 22:00	0.0036	0.0031	0.0045	0.0036	0.0042	0.0044	0.0040
22:00 - 23:00	0.0032	0.0043	0.0043	0.0039	0.0035	0.0041	0.0037
23:00 - 00:00	0.0043	0.0031	0.0035	0.0035	0.0037	0.0036	0.0035
00:00 - 01:00	0.0037	0.0034	0.0036	0.0045	0.0046	0.0034	0.0042
01:00 - 02:00	0.0045	0.0045	0.0030	0.0034	0.0032	0.0046	0.0047
02:00 - 03:00	0.0040	0.0042	0.0034	0.0043	0.0034	0.0044	0.0043
03:00 - 04:00	0.0047	0.0030	0.0041	0.0030	0.0038	0.0043	0.0046
04:00 - 05:00	0.0034	0.0039	0.0048	0.0044	0.0048	0.0040	0.0036
05:00 - 06:00	0.0045	0.0042	0.0039	0.0044	0.0046	0.0031	0.0045
06:00 - 07:00	0.0032	0.0043	0.0046	0.0039	0.0036	0.0033	0.0046
07:00 - 08:00	0.0043	0.0034	0.0037	0.0038	0.0030	0.0034	0.0045
08:00 - 09:00	0.0039	0.0031	0.0030	0.0035	0.0030	0.0039	0.0040
09:00 - 10:00	0.0047	0.0048	0.0034	0.0046	0.0031	0.0039	0.0048
10:00 - 11:00	0.0030	0.0031	0.0038	0.0044	0.0042	0.0040	0.0044
11:00 - 12:00	0.0042	0.0032	0.0043	0.0043	0.0038	0.0032	0.0037
Average-24Hr*	0.0038	0.0037	0.0039	0.0039	0.0038	0.0038	0.0042
Max-1Hr	0.0047	0.0048	0.0048	0.0046	0.0048	0.0048	0.0048
Min-1Hr	0.0030	0.0030	0.0030	0.0030	0.0030	0.0031	0.0035
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(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-BIC

Location : Wat Chumpol Nikayaram Monitor Period : 23-30 Nov 2024
Analyzer Model : API 100A Station No : SECOT-05
Serial No : 969 Site Operator : Mr. Wittaya Krataychan

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	SO2 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
11:00 - 12:00	0.0013	0.0036	0.0036	0.0033	0.0035	0.0041	0.0048
12:00 - 13:00	0.0020	0.0042	0.0025	0.0023	0.0027	0.0032	0.0032
13:00 - 14:00	0.0027	0.0037	0.0022	0.0048	0.0041	0.0036	0.0032
14:00 - 15:00	0.0034	0.0029	0.0025	0.0049	0.0021	0.0038	0.0020
15:00 - 16:00	0.0040	0.0029	0.0032	0.0046	0.0040	0.0020	0.0025
16:00 - 17:00	0.0039	0.0038	0.0036	0.0020	0.0045	0.0022	0.0048
17:00 - 18:00	0.0048	0.0026	0.0042	0.0033	0.0051	0.0038	0.0041
18:00 - 19:00	0.0046	0.0029	0.0040	0.0024	0.0027	0.0031	0.0025
19:00 - 20:00	0.0033	0.0046	0.0041	0.0048	0.0021	0.0041	0.0025
20:00 - 21:00	0.0024	0.0033	0.0046	0.0046	0.0037	0.0029	0.0046
21:00 - 22:00	0.0042	0.0049	0.0038	0.0024	0.0027	0.0020	0.0024
22:00 - 23:00	0.0026	0.0026	0.0033	0.0047	0.0043	0.0042	0.0043
23:00 - 00:00	0.0049	0.0042	0.0045	0.0023	0.0028	0.0020	0.0045
00:00 - 01:00	0.0044	0.0050	0.0049	0.0033	0.0020	0.0040	0.0032
01:00 - 02:00	0.0023	0.0028	0.0026	0.0036	0.0029	0.0027	0.0033
02:00 - 03:00	0.0033	0.0042	0.0022	0.0031	0.0046	0.0020	0.0027
03:00 - 04:00	0.0047	0.0045	0.0028	0.0023	0.0040	0.0025	0.0031
04:00 - 05:00	0.0051	0.0025	0.0048	0.0028	0.0029	0.0026	0.0028
05:00 - 06:00	0.0049	0.0051	0.0051	0.0021	0.0046	0.0035	0.0043
06:00 - 07:00	0.0050	0.0044	0.0045	0.0050	0.0021	0.0034	0.0028
07:00 - 08:00	0.0030	0.0047	0.0038	0.0043	0.0026	0.0023	0.0040
08:00 - 09:00	0.0043	0.0048	0.0047	0.0032	0.0036	0.0025	0.0047
09:00 - 10:00	0.0038	0.0027	0.0051	0.0036	0.0027	0.0022	0.0037
10:00 - 11:00	0.0031	0.0034	0.0044	0.0021	0.0027	0.0021	0.0028
Average-24Hr*	0.0037	0.0038	0.0038	0.0034	0.0033	0.0030	0.0035
Max-1Hr	0.0051	0.0051	0.0051	0.0050	0.0051	0.0042	0.0048
Min-1Hr	0.0013	0.0025	0.0022	0.0020	0.0020	0.0020	0.0020
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(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-BIC**

Location : Wat Wiwek Wayuphat Monitor Period : 23-30 Nov 2024
Analyzer Model : API 100A Station No : SECOT-04
Serial No : 083 Site Operator : Mr. Wittaya Krataychan

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	SO2 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0051	0.0029	0.0022	0.0019	0.0023	0.0025	0.0028
10:00 - 11:00	0.0041	0.0019	0.0028	0.0029	0.0031	0.0026	0.0026
11:00 - 12:00	0.0031	0.0027	0.0028	0.0033	0.0020	0.0023	0.0030
12:00 - 13:00	0.0021	0.0034	0.0027	0.0031	0.0029	0.0031	0.0020
13:00 - 14:00	0.0024	0.0021	0.0031	0.0024	0.0021	0.0034	0.0026
14:00 - 15:00	0.0021	0.0030	0.0020	0.0028	0.0030	0.0022	0.0031
15:00 - 16:00	0.0024	0.0031	0.0022	0.0021	0.0029	0.0019	0.0026
16:00 - 17:00	0.0032	0.0024	0.0034	0.0028	0.0022	0.0019	0.0020
17:00 - 18:00	0.0031	0.0025	0.0032	0.0029	0.0030	0.0022	0.0034
18:00 - 19:00	0.0020	0.0028	0.0024	0.0030	0.0028	0.0022	0.0020
19:00 - 20:00	0.0031	0.0020	0.0026	0.0034	0.0031	0.0024	0.0031
20:00 - 21:00	0.0028	0.0019	0.0029	0.0028	0.0020	0.0030	0.0019
21:00 - 22:00	0.0033	0.0021	0.0029	0.0034	0.0023	0.0032	0.0024
22:00 - 23:00	0.0031	0.0022	0.0020	0.0024	0.0031	0.0019	0.0026
23:00 - 00:00	0.0027	0.0024	0.0031	0.0029	0.0025	0.0023	0.0026
00:00 - 01:00	0.0032	0.0034	0.0027	0.0029	0.0033	0.0029	0.0025
01:00 - 02:00	0.0032	0.0031	0.0032	0.0024	0.0020	0.0022	0.0021
02:00 - 03:00	0.0024	0.0024	0.0027	0.0026	0.0029	0.0031	0.0029
03:00 - 04:00	0.0023	0.0026	0.0025	0.0024	0.0027	0.0025	0.0024
04:00 - 05:00	0.0032	0.0029	0.0025	0.0030	0.0032	0.0020	0.0025
05:00 - 06:00	0.0032	0.0029	0.0028	0.0028	0.0031	0.0022	0.0034
06:00 - 07:00	0.0027	0.0026	0.0022	0.0027	0.0026	0.0029	0.0027
07:00 - 08:00	0.0020	0.0031	0.0026	0.0019	0.0034	0.0031	0.0033
08:00 - 09:00	0.0024	0.0023	0.0026	0.0031	0.0024	0.0031	0.0034
Average-24Hr*	0.0029	0.0026	0.0027	0.0027	0.0027	0.0025	0.0027
Max-1Hr	0.0051	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034
Min-1Hr	0.0020	0.0019	0.0020	0.0019	0.0020	0.0019	0.0019
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Sulfur dioxide
MTR-BIC**

Location : Ban Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : API 100A Station No : SECOT-02
Serial No : 1715 Site Operator : Mr. Wittaya Krataychan

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	SO2 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0043	0.0043	0.0028	0.0039	0.0040	0.0023	0.0029
10:00 - 11:00	0.0036	0.0024	0.0044	0.0042	0.0045	0.0029	0.0039
11:00 - 12:00	0.0029	0.0043	0.0028	0.0031	0.0028	0.0026	0.0046
12:00 - 13:00	0.0045	0.0027	0.0025	0.0041	0.0031	0.0028	0.0039
13:00 - 14:00	0.0046	0.0035	0.0026	0.0036	0.0025	0.0031	0.0024
14:00 - 15:00	0.0027	0.0046	0.0041	0.0024	0.0036	0.0046	0.0026
15:00 - 16:00	0.0027	0.0043	0.0029	0.0038	0.0039	0.0033	0.0042
16:00 - 17:00	0.0038	0.0040	0.0042	0.0028	0.0033	0.0039	0.0042
17:00 - 18:00	0.0047	0.0043	0.0031	0.0035	0.0029	0.0045	0.0024
18:00 - 19:00	0.0047	0.0035	0.0043	0.0027	0.0041	0.0037	0.0046
19:00 - 20:00	0.0025	0.0030	0.0047	0.0046	0.0041	0.0039	0.0029
20:00 - 21:00	0.0042	0.0029	0.0040	0.0032	0.0038	0.0036	0.0036
21:00 - 22:00	0.0027	0.0025	0.0040	0.0038	0.0031	0.0035	0.0030
22:00 - 23:00	0.0043	0.0026	0.0032	0.0034	0.0034	0.0026	0.0046
23:00 - 00:00	0.0043	0.0043	0.0024	0.0032	0.0030	0.0046	0.0032
00:00 - 01:00	0.0047	0.0040	0.0031	0.0032	0.0036	0.0029	0.0036
01:00 - 02:00	0.0029	0.0028	0.0045	0.0026	0.0033	0.0036	0.0024
02:00 - 03:00	0.0029	0.0047	0.0025	0.0043	0.0040	0.0044	0.0043
03:00 - 04:00	0.0043	0.0029	0.0034	0.0036	0.0024	0.0034	0.0023
04:00 - 05:00	0.0024	0.0024	0.0046	0.0041	0.0034	0.0033	0.0044
05:00 - 06:00	0.0042	0.0041	0.0037	0.0046	0.0031	0.0029	0.0025
06:00 - 07:00	0.0024	0.0046	0.0044	0.0038	0.0043	0.0026	0.0026
07:00 - 08:00	0.0036	0.0031	0.0042	0.0042	0.0036	0.0045	0.0036
08:00 - 09:00	0.0024	0.0036	0.0043	0.0029	0.0047	0.0033	0.0042
Average-24Hr*	0.0036	0.0036	0.0036	0.0036	0.0035	0.0035	0.0035
Max-1Hr	0.0047	0.0047	0.0047	0.0046	0.0047	0.0046	0.0046
Min-1Hr	0.0024	0.0024	0.0024	0.0024	0.0024	0.0023	0.0023
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Ozone**
MTR-BIC


Location : Wat Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : Thermo 49C Station No : SECOT-01
Serial No : 65576-349 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
08:00 - 09:00	0.0170	0.0055	0.0090	0.0156	0.0090	0.0155	0.0167
09:00 - 10:00	0.0199	0.0151	0.0121	0.0147	0.0135	0.0171	0.0175
10:00 - 11:00	0.0228	0.0210	0.0212	0.0184	0.0172	0.0211	0.0237
11:00 - 12:00	0.0257	0.0231	0.0238	0.0252	0.0238	0.0215	0.0248
12:00 - 13:00	0.0257	0.0235	0.0234	0.0274	0.0251	0.0237	0.0282
13:00 - 14:00	0.0204	0.0244	0.0240	0.0245	0.0255	0.0251	0.0290
14:00 - 15:00	0.0197	0.0231	0.0234	0.0243	0.0229	0.0221	0.0252
15:00 - 16:00	0.0159	0.0175	0.0182	0.0216	0.0175	0.0192	0.0191
16:00 - 17:00	0.0086	0.0126	0.0139	0.0158	0.0146	0.0152	0.0124
17:00 - 18:00	0.0072	0.0078	0.0078	0.0091	0.0070	0.0080	0.0073
18:00 - 19:00	0.0087	0.0081	0.0078	0.0084	0.0066	0.0079	0.0059
19:00 - 20:00	0.0066	0.0100	0.0071	0.0079	0.0080	0.0087	0.0070
20:00 - 21:00	0.0066	0.0099	0.0090	0.0080	0.0065	0.0074	0.0077
21:00 - 22:00	0.0077	0.0073	0.0076	0.0092	0.0064	0.0066	0.0077
22:00 - 23:00	0.0069	0.0095	0.0086	0.0065	0.0083	0.0066	0.0085
23:00 - 00:00	0.0069	0.0089	0.0091	0.0083	0.0086	0.0076	0.0074
00:00 - 01:00	0.0085	0.0098	0.0085	0.0069	0.0079	0.0064	0.0079
01:00 - 02:00	0.0063	0.0079	0.0089	0.0089	0.0094	0.0061	0.0066
02:00 - 03:00	0.0053	0.0093	0.0073	0.0068	0.0066	0.0074	0.0087
03:00 - 04:00	0.0075	0.0079	0.0073	0.0068	0.0091	0.0068	0.0067
04:00 - 05:00	0.0091	0.0080	0.0075	0.0075	0.0069	0.0063	0.0071
05:00 - 06:00	0.0056	0.0095	0.0080	0.0073	0.0072	0.0083	0.0158
06:00 - 07:00	0.0072	0.0071	0.0072	0.0074	0.0083	0.0104	0.0139
07:00 - 08:00	0.0062	0.0086	0.0072	0.0092	0.0090	0.0115	0.0160
Average-24Hr*	0.0118	0.0123	0.0120	0.0127	0.0119	0.0124	0.0138
Max-1Hr	0.0257	0.0244	0.0240	0.0274	0.0255	0.0251	0.0290
Min-1Hr	0.0053	0.0055	0.0071	0.0065	0.0064	0.0061	0.0059
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 08:00-08:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

**Ambient Air Monitoring Results : Ozone**
MTR-BIC


Location : Ban Bang Krasun Monitor Period : 23-30 Nov 2024
Analyzer Model : Thermo 49C Station No : SECOT-03
Serial No : 56682-309 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
10:00 - 11:00	0.0298	0.0192	0.0155	0.0194	0.0200	0.0190	0.0223
11:00 - 12:00	0.0261	0.0135	0.0252	0.0173	0.0212	0.0239	0.0258
12:00 - 13:00	0.0224	0.0172	0.0187	0.0181	0.0210	0.0218	0.0225
13:00 - 14:00	0.0187	0.0192	0.0201	0.0190	0.0216	0.0231	0.0196
14:00 - 15:00	0.0202	0.0205	0.0240	0.0273	0.0242	0.0206	0.0206
15:00 - 16:00	0.0207	0.0148	0.0217	0.0191	0.0194	0.0137	0.0156
16:00 - 17:00	0.0217	0.0160	0.0189	0.0122	0.0139	0.0112	0.0105
17:00 - 18:00	0.0118	0.0079	0.0105	0.0085	0.0112	0.0099	0.0098
18:00 - 19:00	0.0100	0.0099	0.0101	0.0093	0.0118	0.0089	0.0073
19:00 - 20:00	0.0100	0.0106	0.0094	0.0087	0.0088	0.0073	0.0077
20:00 - 21:00	0.0102	0.0095	0.0089	0.0106	0.0092	0.0099	0.0087
21:00 - 22:00	0.0084	0.0101	0.0095	0.0089	0.0073	0.0084	0.0078
22:00 - 23:00	0.0102	0.0099	0.0104	0.0076	0.0073	0.0075	0.0104
23:00 - 00:00	0.0092	0.0100	0.0080	0.0099	0.0088	0.0096	0.0101
00:00 - 01:00	0.0096	0.0093	0.0100	0.0075	0.0081	0.0095	0.0097
01:00 - 02:00	0.0083	0.0092	0.0103	0.0078	0.0083	0.0096	0.0091
02:00 - 03:00	0.0084	0.0099	0.0082	0.0088	0.0083	0.0077	0.0093
03:00 - 04:00	0.0083	0.0106	0.0084	0.0106	0.0103	0.0079	0.0080
04:00 - 05:00	0.0099	0.0100	0.0075	0.0081	0.0087	0.0103	0.0076
05:00 - 06:00	0.0103	0.0087	0.0093	0.0075	0.0089	0.0073	0.0082
06:00 - 07:00	0.0090	0.0094	0.0106	0.0074	0.0073	0.0092	0.0078
07:00 - 08:00	0.0084	0.0105	0.0098	0.0123	0.0086	0.0105	0.0156
08:00 - 09:00	0.0166	0.0113	0.0091	0.0168	0.0102	0.0139	0.0189
09:00 - 10:00	0.0189	0.0129	0.0173	0.0214	0.0158	0.0186	0.0204
Average-24Hr*	0.0140	0.0121	0.0130	0.0127	0.0125	0.0125	0.0131
Max-1Hr	0.0298	0.0205	0.0252	0.0273	0.0242	0.0239	0.0258
Min-1Hr	0.0083	0.0079	0.0075	0.0074	0.0073	0.0073	0.0073
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Ozone MTR-BIC


Location : Chaofasang School Monitor Period : 23-30 Nov 2024
Analyzer Model : Teledyne 400 Station No : SECOT-06
Serial No : 2335 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
12:00 - 13:00	0.0140	0.0204	0.0160	0.0164	0.0171	0.0175	0.0193
13:00 - 14:00	0.0157	0.0180	0.0171	0.0181	0.0149	0.0224	0.0199
14:00 - 15:00	0.0174	0.0175	0.0165	0.0157	0.0184	0.0184	0.0228
15:00 - 16:00	0.0158	0.0166	0.0142	0.0141	0.0135	0.0106	0.0170
16:00 - 17:00	0.0134	0.0064	0.0116	0.0120	0.0120	0.0101	0.0122
17:00 - 18:00	0.0075	0.0074	0.0075	0.0114	0.0095	0.0101	0.0090
18:00 - 19:00	0.0076	0.0058	0.0065	0.0081	0.0067	0.0061	0.0096
19:00 - 20:00	0.0071	0.0071	0.0055	0.0066	0.0067	0.0079	0.0090
20:00 - 21:00	0.0076	0.0078	0.0064	0.0085	0.0071	0.0067	0.0091
21:00 - 22:00	0.0065	0.0077	0.0053	0.0056	0.0057	0.0047	0.0083
22:00 - 23:00	0.0062	0.0067	0.0058	0.0061	0.0062	0.0056	0.0061
23:00 - 00:00	0.0050	0.0066	0.0067	0.0079	0.0065	0.0083	0.0042
00:00 - 01:00	0.0066	0.0085	0.0061	0.0067	0.0076	0.0078	0.0065
01:00 - 02:00	0.0068	0.0078	0.0071	0.0067	0.0055	0.0051	0.0074
02:00 - 03:00	0.0059	0.0065	0.0050	0.0079	0.0069	0.0074	0.0067
03:00 - 04:00	0.0059	0.0074	0.0052	0.0077	0.0081	0.0083	0.0067
04:00 - 05:00	0.0083	0.0066	0.0045	0.0066	0.0076	0.0067	0.0075
05:00 - 06:00	0.0075	0.0063	0.0063	0.0066	0.0073	0.0048	0.0059
06:00 - 07:00	0.0064	0.0060	0.0058	0.0078	0.0059	0.0076	0.0073
07:00 - 08:00	0.0080	0.0060	0.0070	0.0070	0.0061	0.0061	0.0059
08:00 - 09:00	0.0077	0.0154	0.0082	0.0075	0.0066	0.0084	0.0110
09:00 - 10:00	0.0137	0.0156	0.0143	0.0060	0.0128	0.0121	0.0142
10:00 - 11:00	0.0146	0.0167	0.0136	0.0094	0.0162	0.0122	0.0154
11:00 - 12:00	0.0182	0.0183	0.0155	0.0143	0.0164	0.0177	0.0165
Average-24Hr*	0.0097	0.0104	0.0091	0.0094	0.0096	0.0097	0.0107
Max-1Hr	0.0182	0.0204	0.0171	0.0181	0.0184	0.0224	0.0228
Min-1Hr	0.0050	0.0058	0.0045	0.0056	0.0055	0.0047	0.0042
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Ozone MTR-BIC


Location : Wat Chumpol Nikayaram Monitor Period : 23-30 Nov 2024
Analyzer Model : Thermo 49C Station No : SECOT-05
Serial No : 60771-382-2 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
11:00 - 12:00	0.0272	0.0239	0.0220	0.0218	0.0203	0.0212	0.0187
12:00 - 13:00	0.0235	0.0187	0.0251	0.0236	0.0241	0.0218	0.0229
13:00 - 14:00	0.0198	0.0234	0.0190	0.0214	0.0268	0.0197	0.0206
14:00 - 15:00	0.0161	0.0218	0.0161	0.0152	0.0218	0.0180	0.0193
15:00 - 16:00	0.0174	0.0199	0.0126	0.0129	0.0159	0.0153	0.0175
16:00 - 17:00	0.0155	0.0136	0.0113	0.0075	0.0101	0.0121	0.0151
17:00 - 18:00	0.0099	0.0082	0.0099	0.0065	0.0085	0.0100	0.0108
18:00 - 19:00	0.0087	0.0099	0.0095	0.0095	0.0093	0.0066	0.0072
19:00 - 20:00	0.0079	0.0072	0.0090	0.0071	0.0096	0.0064	0.0092
20:00 - 21:00	0.0077	0.0061	0.0090	0.0090	0.0105	0.0090	0.0082
21:00 - 22:00	0.0067	0.0068	0.0065	0.0084	0.0080	0.0065	0.0079
22:00 - 23:00	0.0094	0.0078	0.0082	0.0083	0.0087	0.0073	0.0083
23:00 - 00:00	0.0075	0.0076	0.0070	0.0105	0.0075	0.0090	0.0081
00:00 - 01:00	0.0084	0.0094	0.0079	0.0073	0.0101	0.0066	0.0097
01:00 - 02:00	0.0072	0.0100	0.0079	0.0097	0.0087	0.0083	0.0085
02:00 - 03:00	0.0102	0.0072	0.0073	0.0072	0.0082	0.0082	0.0080
03:00 - 04:00	0.0084	0.0105	0.0084	0.0078	0.0094	0.0067	0.0067
04:00 - 05:00	0.0068	0.0085	0.0081	0.0095	0.0093	0.0083	0.0088
05:00 - 06:00	0.0091	0.0072	0.0073	0.0083	0.0079	0.0069	0.0081
06:00 - 07:00	0.0065	0.0070	0.0096	0.0087	0.0084	0.0092	0.0084
07:00 - 08:00	0.0086	0.0067	0.0079	0.0084	0.0095	0.0069	0.0074
08:00 - 09:00	0.0103	0.0112	0.0107	0.0115	0.0116	0.0079	0.0117
09:00 - 10:00	0.0116	0.0154	0.0151	0.0150	0.0164	0.0162	0.0139
10:00 - 11:00	0.0148	0.0196	0.0190	0.0184	0.0172	0.0182	0.0183
Average-24Hr*	0.0116	0.0120	0.0114	0.0113	0.0124	0.0111	0.0118
Max-1Hr	0.0272	0.0239	0.0251	0.0236	0.0268	0.0218	0.0229
Min-1Hr	0.0065	0.0061	0.0065	0.0065	0.0075	0.0064	0.0067
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Ozone MTR-BIC

Location : Wat Wiwek Wayuphat Monitor Period : 23-30 Nov 2024
Analyzer Model : API 400 Station No : SECOT-04
Serial No : 1097 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0149	0.0157	0.0165	0.0181	0.0176	0.0190	0.0186
10:00 - 11:00	0.0184	0.0197	0.0203	0.0198	0.0197	0.0188	0.0183
11:00 - 12:00	0.0219	0.0218	0.0221	0.0185	0.0226	0.0206	0.0187
12:00 - 13:00	0.0254	0.0269	0.0261	0.0215	0.0223	0.0235	0.0202
13:00 - 14:00	0.0284	0.0278	0.0286	0.0232	0.0252	0.0249	0.0212
14:00 - 15:00	0.0291	0.0215	0.0239	0.0221	0.0177	0.0259	0.0206
15:00 - 16:00	0.0193	0.0178	0.0192	0.0174	0.0133	0.0197	0.0141
16:00 - 17:00	0.0146	0.0159	0.0124	0.0147	0.0126	0.0143	0.0110
17:00 - 18:00	0.0111	0.0109	0.0083	0.0103	0.0097	0.0127	0.0085
18:00 - 19:00	0.0082	0.0074	0.0082	0.0077	0.0073	0.0083	0.0081
19:00 - 20:00	0.0071	0.0079	0.0078	0.0084	0.0073	0.0074	0.0070
20:00 - 21:00	0.0078	0.0080	0.0078	0.0079	0.0073	0.0076	0.0081
21:00 - 22:00	0.0080	0.0079	0.0069	0.0073	0.0074	0.0077	0.0078
22:00 - 23:00	0.0076	0.0070	0.0077	0.0073	0.0067	0.0074	0.0083
23:00 - 00:00	0.0072	0.0071	0.0078	0.0077	0.0082	0.0084	0.0074
00:00 - 01:00	0.0072	0.0074	0.0074	0.0075	0.0085	0.0079	0.0077
01:00 - 02:00	0.0077	0.0083	0.0073	0.0079	0.0072	0.0077	0.0077
02:00 - 03:00	0.0085	0.0072	0.0072	0.0079	0.0072	0.0080	0.0085
03:00 - 04:00	0.0078	0.0077	0.0070	0.0082	0.0078	0.0083	0.0082
04:00 - 05:00	0.0069	0.0074	0.0073	0.0072	0.0078	0.0071	0.0082
05:00 - 06:00	0.0074	0.0068	0.0077	0.0081	0.0081	0.0085	0.0079
06:00 - 07:00	0.0080	0.0075	0.0075	0.0085	0.0073	0.0079	0.0080
07:00 - 08:00	0.0071	0.0084	0.0081	0.0075	0.0071	0.0081	0.0068
08:00 - 09:00	0.0113	0.0141	0.0077	0.0105	0.0093	0.0192	0.0084
Average-24Hr*	0.0125	0.0124	0.0121	0.0119	0.0115	0.0129	0.0112
Max-1Hr	0.0291	0.0278	0.0286	0.0232	0.0252	0.0259	0.0212
Min-1Hr	0.0069	0.0068	0.0069	0.0072	0.0067	0.0071	0.0068
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Ozone MTR-BIC

Location : Ban Khlong Phutsa Monitor Period : 23-30 Nov 2024
Analyzer Model : API 400 Station No : SECOT-02
Serial No : 578 Site Operator : Mr. Wittaya Krataychan

Calibrator Model : Teledyne T700 Serial No : 1367
Calibration Gas Cylinder I.D.: -
Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025

Time	O3 Concentration (ppm)						
	23-24 Nov 2024	24-25 Nov 2024	25-26 Nov 2024	26-27 Nov 2024	27-28 Nov 2024	28-29 Nov 2024	29-30 Nov 2024
09:00 - 10:00	0.0199	0.0160	0.0134	0.0092	0.0127	0.0158	0.0080
10:00 - 11:00	0.0188	0.0150	0.0138	0.0148	0.0128	0.0191	0.0078
11:00 - 12:00	0.0197	0.0175	0.0163	0.0163	0.0154	0.0188	0.0080
12:00 - 13:00	0.0195	0.0140	0.0181	0.0209	0.0186	0.0218	0.0115
13:00 - 14:00	0.0209	0.0147	0.0220	0.0233	0.0220	0.0253	0.0094
14:00 - 15:00	0.0181	0.0181	0.0196	0.0182	0.0180	0.0203	0.0117
15:00 - 16:00	0.0125	0.0070	0.0122	0.0185	0.0132	0.0146	0.0110
16:00 - 17:00	0.0104	0.0085	0.0102	0.0113	0.0113	0.0140	0.0093
17:00 - 18:00	0.0114	0.0080	0.0092	0.0091	0.0081	0.0087	0.0094
18:00 - 19:00	0.0093	0.0073	0.0084	0.0081	0.0061	0.0076	0.0089
19:00 - 20:00	0.0074	0.0088	0.0103	0.0075	0.0067	0.0083	0.0085
20:00 - 21:00	0.0081	0.0068	0.0076	0.0084	0.0070	0.0071	0.0084
21:00 - 22:00	0.0078	0.0073	0.0063	0.0086	0.0069	0.0080	0.0085
22:00 - 23:00	0.0071	0.0077	0.0064	0.0083	0.0065	0.0084	0.0080
23:00 - 00:00	0.0071	0.0068	0.0061	0.0086	0.0062	0.0082	0.0107
00:00 - 01:00	0.0078	0.0062	0.0072	0.0062	0.0066	0.0062	0.0103
01:00 - 02:00	0.0082	0.0064	0.0084	0.0061	0.0064	0.0066	0.0069
02:00 - 03:00	0.0089	0.0065	0.0075	0.0061	0.0062	0.0060	0.0083
03:00 - 04:00	0.0075	0.0069	0.0075	0.0084	0.0074	0.0067	0.0076
04:00 - 05:00	0.0101	0.0071	0.0078	0.0073	0.0075	0.0061	0.0074
05:00 - 06:00	0.0081	0.0083	0.0078	0.0067	0.0080	0.0081	0.0090
06:00 - 07:00	0.0090	0.0096	0.0076	0.0070	0.0114	0.0077	0.0078
07:00 - 08:00	0.0080	0.0084	0.0093	0.0074	0.0113	0.0087	0.0091
08:00 - 09:00	0.0096	0.0108	0.0080	0.0090	0.0133	0.0087	0.0105
Average-24Hr*	0.0115	0.0097	0.0105	0.0106	0.0104	0.0113	0.0090
Max-1Hr	0.0209	0.0181	0.0233	0.0220	0.0220	0.0253	0.0117
Min-1Hr	0.0071	0.0062	0.0061	0.0061	0.0061	0.0060	0.0069
Standard-1Hr	0.10 ppm(200 ug/cu.m)						
Standard-24Hr	-						

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045/Amb(TSP)/Nov(1)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 23-30/11/2024
RECEIVED DATE : 03/12/2024 ANALYTICAL DATE : 03-09/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
SITE OPERATOR : Mr.Wittaya Krataychan
LOCATION DESCRIPTION : 1. Wat Khlong Phutsa
2. Ban Bangkrasun
3. Chaofasang School

PARAMETER	SAMPLING DATE	UNIT	RESULT			STANDARD*	REFERENCE METHOD
			1	2	3		
TSP (24 hr)	23-24/11/2024	mg/m ³	0.040	0.037	0.040	0.330	High Volume Air
	24-25/11/2024	mg/m ³	0.056	0.041	0.068		Sampler/Gravimetric
	25-26/11/2024	mg/m ³	0.055	0.048	0.077		Method
	26-27/11/2024	mg/m ³	0.043	0.048	0.048		
	27-28/11/2024	mg/m ³	0.055	0.044	0.097		
	28-29/11/2024	mg/m ³	0.055	0.056	0.102		
	29-30/11/2024	mg/m ³	0.053	0.054	0.077		

Bongpa Puthum

(Miss Pornnapa 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).



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045/Amb(TSP)/Nov(2)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 23-30/11/2024
RECEIVED DATE : 03/12/2024 ANALYTICAL DATE : 03-09/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
SITE OPERATOR : Mr.Wittaya Krataychan
LOCATION DESCRIPTION : 4. Wat Chumpolnikayaram
5. Wat Wiwek Wayuphat
6. Ban Khlong Phutsa

PARAMETER	SAMPLING DATE	UNIT	RESULT			STANDARD*	REFERENCE METHOD
			4	5	6		
TSP (24 hr)	23-24/11/2024	mg/m ³	0.044	0.041	0.066	0.330	High Volume Air
	24-25/11/2024	mg/m ³	0.069	0.055	0.057		Sampler/Gravimetric
	25-26/11/2024	mg/m ³	0.050	0.050	0.096		Method
	26-27/11/2024	mg/m ³	0.054	0.038	0.118		
	27-28/11/2024	mg/m ³	0.052	0.067	0.109		
	28-29/11/2024	mg/m ³	0.060	0.067	0.214		
	29-30/11/2024	mg/m ³	0.066	0.065	0.184		

Bongpa Puthum

(Miss Pornnapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045/Amb(PM-10)/Nov(1)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 23-30/11/2024
RECEIVED DATE : 03/12/2024 ANALYTICAL DATE : 03-09/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
SITE OPERATOR : Mr.Wittaya Krataychan
LOCATION DESCRIPTION : 1. Wat Khlong Phutsa
2. Ban Bangkrasun
3. Chaofasang School

PARAMETER	SAMPLING DATE	UNIT	RESULT			STANDARD*	REFERENCE METHOD
			1	2	3		
PM-10 (24 hr)	23-24/11/2024	mg/m ³	0.023	0.031	0.027	0.120	High Volume Air
	24-25/11/2024	mg/m ³	0.029	0.026	0.038		Sampler (Hi-Vol
	25-26/11/2024	mg/m ³	0.028	0.025	0.039		PM-10 Size
	26-27/11/2024	mg/m ³	0.027	0.026	0.029		Selective Inlet/
	27-28/11/2024	mg/m ³	0.028	0.027	0.038		Gravimetric Method
	28-29/11/2024	mg/m ³	0.030	0.029	0.039		
	29-30/11/2024	mg/m ³	0.040	0.043	0.040		

Bongpa Budthum

(Miss Pornnapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045/Amb(PM-10)/Nov(2)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 23-30/11/2024
RECEIVED DATE : 03/12/2024 ANALYTICAL DATE : 03-09/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
SITE OPERATOR : Mr.Wittaya Krataychan
LOCATION DESCRIPTION : 4. Wat Chumpolnikayaram
5. Wat Wiwek Wayuphat
6. Ban Khlong Phutsa

PARAMETER	SAMPLING DATE	UNIT	RESULT			STANDARD*	REFERENCE METHOD
			4	5	6		
PM-10 (24 hr)	23-24/11/2024	mg/m ³	0.028	0.024	0.025	0.120	High Volume Air
	24-25/11/2024	mg/m ³	0.043	0.024	0.045		Sampler (Hi-Vol
	25-26/11/2024	mg/m ³	0.038	0.018	0.056		PM-10 Size
	26-27/11/2024	mg/m ³	0.043	0.019	0.046		Selective Inlet/
	27-28/11/2024	mg/m ³	0.038	0.021	0.048		Gravimetric Method
	28-29/11/2024	mg/m ³	0.052	0.025	0.050		
	29-30/11/2024	mg/m ³	0.051	0.029	0.073		

Bongpa Budthum

(Miss Pornnapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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

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3. * Notification of the National Environment Board, No.24, B.E.2547 (2004).

ภาคผนวก ง.2

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากแหล่งกำเนิด



บริษัท ซีคอต จำกัด
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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Co., Ltd.	REFERENCE NO.	: 224045-Stack_PM/HRSG 1_Nov
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 25/11/2024
RECEIVED DATE	: 26/11/2024	ANALYTICAL DATE	: 28-29/11/2024
REPORT DATE	: 03/12/2024	SAMPLE CONDITION	: Good
STACK LOCATION	: HRSG 1	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			

Height	: 45.0	m	Gas Velocity	: 14.7	m/s
Diameter	: 3.2	m	Flow rate*	: 4,794	Ncu.m./min
Temperature	: 116.8	°C	Excess Oxygen	: 14.8	%
Moisture	: 11.1	%			

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		14.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.44	3.26	0.12	60 ^{1/} , 10 ^{2/}	0.61 ^{2/}	US. EPA Method 5

Bongpa Pethlum

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-ก-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-ก-0010

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

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

3. * At standard pressure of 760 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023).

5. ^{2/} The value was assigned in EIA report, B.E.2560

The Monitoring Result of Emission Concentration HRSG1 BANGPA-IN COGENERATION CO., LTD. November 25, 2024

Run Number	Oxygen content (%)		Oxide 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	14.84	14.76	19.54	19.52	44.19
2	14.86	14.76	19.26	19.24	43.56
3	14.88	14.76	19.71	19.69	44.58
Average	14.86	14.76	19.51	19.48	44.11

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	14.84	14.76	0.19	0.14	0.32
2	14.86	14.76	0.20	0.14	0.32
3	14.88	14.76	0.11	0.05	0.11
Average	14.86	14.76	0.16	0.11	0.25

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: November 25, 2024
Start time: 11:30 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Run # : 1
Location : HRSG1
Finish time : 11:50 AM
Serial No.: 121121-9
Serial No.: 441
Serial No.: 060
Serial No.: 365
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:30 AM	14.80	20.57	0.20
11:31 AM	14.85	20.47	0.21
11:32 AM	14.87	20.58	0.19
11:33 AM	14.87	20.32	0.19
11:34 AM	14.90	20.29	0.18
11:35 AM	14.98	19.96	0.18
11:36 AM	14.95	19.52	0.19
11:37 AM	14.91	19.37	0.19
11:38 AM	14.89	19.08	0.18
11:39 AM	14.87	19.23	0.20
11:40 AM	14.85	18.99	0.19
11:41 AM	14.82	18.51	0.18
11:42 AM	14.81	18.58	0.18
11:43 AM	14.79	18.78	0.18
11:44 AM	14.73	19.34	0.18
11:45 AM	14.71	19.72	0.18
11:46 AM	14.70	19.76	0.18
11:47 AM	14.83	19.60	0.18
11:48 AM	14.88	19.50	0.18
11:49 AM	14.71	19.08	0.20
11:50 AM	14.86	19.19	0.18
Average	14.84	19.54	0.19

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: November 25, 2024
Start time: 11:51 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Run # : 2
Location : HRSG1
Finish time : 12:11 PM
Serial No.: 121121-9
Serial No.: 441
Serial No.: 060
Serial No.: 365
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:51 AM	14.84	19.30	0.18
11:52 AM	14.84	19.65	0.18
11:53 AM	14.83	19.56	0.18
11:54 AM	14.81	19.85	0.20
11:55 AM	14.78	19.43	0.18
11:56 AM	14.76	19.29	0.18
11:57 AM	14.73	19.23	0.18
11:58 AM	14.73	19.09	0.18
11:59 AM	14.87	20.56	0.22
12:00 PM	14.88	19.96	0.24
12:01 PM	14.87	19.45	0.27
12:02 PM	14.88	19.23	0.26
12:03 PM	14.91	18.84	0.19
12:04 PM	14.91	18.49	0.17
12:05 PM	14.91	18.79	0.18
12:06 PM	14.91	19.14	0.17
12:07 PM	14.88	19.11	0.21
12:08 PM	14.90	19.14	0.19
12:09 PM	14.91	18.95	0.21
12:10 PM	14.91	18.67	0.20
12:11 PM	14.90	18.72	0.17
Average	14.86	19.26	0.20

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: November 25, 2024
Start time: 12:12 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Run # : 3
Location : HRSG1
Finish time : 12:32 PM
Serial No.: 121121-9
Serial No.: 441
Serial No.: 060
Serial No.: 365
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:12 PM	14.90	18.82	0.16
12:13 PM	14.90	19.29	0.18
12:14 PM	14.92	19.47	0.15
12:15 PM	14.91	19.20	0.06
12:16 PM	14.91	19.17	0.09
12:17 PM	14.88	19.30	0.10
12:18 PM	14.88	19.28	0.11
12:19 PM	14.86	19.25	0.11
12:20 PM	14.88	19.83	0.07
12:21 PM	14.88	20.18	0.04
12:22 PM	14.88	20.26	0.00
12:23 PM	14.88	20.22	0.03
12:24 PM	14.88	19.88	0.01
12:25 PM	14.88	19.77	0.05
12:26 PM	14.87	20.00	0.10
12:27 PM	14.87	20.03	0.12
12:28 PM	14.87	20.61	0.17
12:29 PM	14.87	21.13	0.17
12:30 PM	14.87	20.37	0.17
12:31 PM	14.87	19.27	0.21
12:32 PM	14.87	18.64	0.17
Average	14.88	19.71	0.11

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

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

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. **REFERENCE NO. :** 224045-Stack_PM/HRSG 2_Nov
SAMPLING BY : SECOT Co., Ltd. **SAMPLING DATE :** 25/11/2024
RECEIVED DATE : 26/11/2024 **ANALYTICAL DATE :** 28-29/11/2024
REPORT DATE : 03/12/2024 **SAMPLE CONDITION :** Good
STACK LOCATION : HRSG 2 **SITE OPERATOR :** Mr. Pisanu Seenampeng
SOURCE DESCRIPTION : Combustion **FUEL TYPE :** Natural Gas

STACK DESCRIPTION

Height : 45.0 m **Gas Velocity :** 20.4 m/s
Diameter : 3.2 m **Flow rate* :** 6,646 Ncu.m./min
Temperature : 119.6 °C **Excess Oxygen :** 15.2 %
Moisture : 10.4 %

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE METHOD
		15.2%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.58	3.84	0.18	60 ^{1/} , 10 ^{2/}	0.61 ^{2/}	US. EPA Method 5


 (Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-ก-0018


 (Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-ก-0010

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

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

3. * At standard pressure of 760 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023).

5. ^{2/} The value was assigned in EIA report, B.E.2560

The Monitoring Result of Emission Concentration
HRSG2
BANGPA-IN COGENERATION CO., LTD.
November 25, 2024

Run Number	Oxygen content (%)		Oxide 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	15.27	15.14	22.47	22.45	54.18
2	15.34	15.22	23.78	23.75	58.12
3	15.26	15.15	23.93	23.90	57.78
Average	15.29	15.17	23.39	23.37	56.68

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	15.27	15.14	0.06	0.02	0.05
2	15.34	15.22	0.11	0.07	0.17
3	15.26	15.15	0.09	0.05	0.12
Average	15.29	15.17	0.08	0.05	0.11

BANGPA-IN COGENERATION CO., LTD.
EMISSION TEST RESULT

Date: November 25, 2024
 Start time: 11:30 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 CO instrument Model: THERMO 48 C
 Fuel Type : Natural Gas

Run # : 1
 Location : HRSG2
 Finish time : 11:50 AM
 Serial No.: 121121-9
 Serial No.: 441
 Serial No.: 060
 Serial No.: 365
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:30 AM	15.24	21.23	0.02
11:31 AM	15.26	21.50	0.01
11:32 AM	15.28	21.21	0.04
11:33 AM	15.30	21.05	0.04
11:34 AM	15.33	20.76	0.03
11:35 AM	15.17	21.67	0.03
11:36 AM	15.17	21.97	0.05
11:37 AM	15.19	22.18	0.05
11:38 AM	15.20	22.41	0.02
11:39 AM	15.23	22.08	0.05
11:40 AM	15.23	22.85	0.06
11:41 AM	15.25	23.00	0.06
11:42 AM	15.27	22.40	0.06
11:43 AM	15.28	22.70	0.08
11:44 AM	15.30	23.61	0.08
11:45 AM	15.30	23.81	0.08
11:46 AM	15.31	23.61	0.07
11:47 AM	15.32	23.66	0.10
11:48 AM	15.33	23.34	0.07
11:49 AM	15.33	23.28	0.07
11:50 AM	15.33	23.64	0.12
Average	15.27	22.47	0.06

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: November 25, 2024
Start time: 11:51 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Run # : 2
Location : HRSG2
Finish time : 12:11 PM
Serial No.: 121121-9
Serial No.: 441
Serial No.: 060
Serial No.: 365
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:51 AM	15.33	23.23	0.10
11:52 AM	15.33	23.22	0.09
11:53 AM	15.30	23.26	0.08
11:54 AM	15.31	23.20	0.14
11:55 AM	15.34	24.02	0.14
11:56 AM	15.34	24.02	0.11
11:57 AM	15.34	23.37	0.08
11:58 AM	15.34	23.94	0.08
11:59 AM	15.34	23.65	0.09
12:00 PM	15.36	23.90	0.12
12:01 PM	15.36	24.52	0.13
12:02 PM	15.36	23.78	0.11
12:03 PM	15.36	23.76	0.08
12:04 PM	15.36	23.58	0.10
12:05 PM	15.36	23.73	0.14
12:06 PM	15.36	24.45	0.13
12:07 PM	15.40	23.66	0.11
12:08 PM	15.36	23.93	0.13
12:09 PM	15.35	23.96	0.12
12:10 PM	15.30	23.86	0.13
12:11 PM	15.25	24.24	0.09
Average	15.34	23.78	0.11

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: November 25, 2024
Start time: 12:12 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Run # : 3
Location : HRSG2
Finish time : 12:32 PM
Serial No.: 121121-9
Serial No.: 441
Serial No.: 060
Serial No.: 365
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:12 PM	15.25	23.58	0.11
12:13 PM	15.25	23.99	0.10
12:14 PM	15.25	24.54	0.08
12:15 PM	15.25	23.86	0.08
12:16 PM	15.25	23.56	0.08
12:17 PM	15.25	23.68	0.08
12:18 PM	15.25	24.53	0.13
12:19 PM	15.25	24.03	0.11
12:20 PM	15.25	24.05	0.09
12:21 PM	15.25	24.07	0.07
12:22 PM	15.25	23.80	0.07
12:23 PM	15.25	23.53	0.11
12:24 PM	15.25	23.74	0.07
12:25 PM	15.25	23.90	0.09
12:26 PM	15.25	23.79	0.11
12:27 PM	15.25	24.13	0.07
12:28 PM	15.25	23.62	0.07
12:29 PM	15.27	24.33	0.07
12:30 PM	15.28	23.71	0.07
12:31 PM	15.28	24.01	0.07
12:32 PM	15.29	24.16	0.07
Average	15.26	23.93	0.09

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



บริษัท ซีคอต จำกัด
SECOT CO., LTD.
239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800
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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045-Stack_PM/HRSG 3_Nov
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/11/2024
RECEIVED DATE : 26/11/2024 ANALYTICAL DATE : 28-29/11/2024
REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good
STACK LOCATION : HRSG 3 SITE OPERATOR : Mr. Pisanu Secnampeng
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 13.5 m/s
Diameter : 3.2 m Flow rate* : 4,297 Ncu.m./min
Temperature : 125.8 °C Excess Oxygen : 15.1 %
Moisture : 11.0 %

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE
		15.1%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.76	4.21	0.13	60 ^{1/} , 10 ^{2/}	0.61 ^{2/}	US. EPA Method 5


(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-ก-0018



(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-ก-0010

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

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3. * At standard pressure of 760 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023).

5. ^{2/} The value was assigned in EIA report, B.E.2560

The Monitoring Result of Emission Concentration HRSG3 BANGPA-IN COGENERATION CO., LTD. November 25, 2024

Run Number	Oxygen content (%)		Oxide 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	15.11	15.07	13.49	13.44	32.04
2	15.14	15.08	13.88	13.83	33.03
3	15.18	15.11	13.63	13.58	32.60
Average	15.14	15.09	13.67	13.62	32.56

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	15.11	15.07	0.09	0.06	0.14
2	15.14	15.08	0.09	0.06	0.14
3	15.18	15.11	0.24	0.20	0.48
Average	15.14	15.09	0.14	0.11	0.26

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: <u>November 25, 2024</u>	Run #: <u>1</u>	Location: <u>HRSG3</u>
Start time: <u>11:30 AM</u>	Finish time: <u>11:50 AM</u>	
O ₂ instrument Model: <u>AMI 70</u>	Serial No.: <u>121121-10</u>	
NO _x instrument Model: <u>Teledyne 200 EM</u>	Serial No.: <u>433</u>	
SO ₂ instrument Model: <u>API 100 AH</u>	Serial No.: <u>118</u>	
CO instrument Model: <u>THERMO 48 C</u>	Serial No.: <u>0412106049</u>	
Fuel Type: <u>Natural Gas</u>	Test Operator: <u>Kittipong T.</u>	

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:30 AM	15.10	13.34	0.18
11:31 AM	15.10	13.42	0.13
11:32 AM	15.10	13.42	0.11
11:33 AM	15.10	13.34	0.06
11:34 AM	15.11	13.31	0.07
11:35 AM	15.10	13.30	0.11
11:36 AM	15.11	13.35	0.12
11:37 AM	15.10	13.48	0.07
11:38 AM	15.11	13.60	0.08
11:39 AM	15.11	13.58	0.12
11:40 AM	15.11	13.51	0.06
11:41 AM	15.10	13.45	0.05
11:42 AM	15.11	13.43	0.10
11:43 AM	15.11	13.43	0.11
11:44 AM	15.10	13.44	0.05
11:45 AM	15.11	13.53	0.04
11:46 AM	15.11	13.56	0.05
11:47 AM	15.11	13.66	0.10
11:48 AM	15.11	13.68	0.07
11:49 AM	15.11	13.72	0.10
11:50 AM	15.11	13.73	0.06
Average	15.11	13.49	0.09

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Date: <u>November 25, 2024</u>	Run #: <u>2</u>	Location: <u>HRSG3</u>
Start time: <u>11:51 AM</u>	Finish time: <u>12:11 PM</u>	
O ₂ instrument Model: <u>AMI 70</u>	Serial No.: <u>121121-10</u>	
NO _x instrument Model: <u>Teledyne 200 EM</u>	Serial No.: <u>433</u>	
SO ₂ instrument Model: <u>API 100 AH</u>	Serial No.: <u>118</u>	
CO instrument Model: <u>THERMO 48 C</u>	Serial No.: <u>0412106049</u>	
Fuel Type: <u>Natural Gas</u>	Test Operator: <u>Kittipong T.</u>	

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:51 AM	15.11	13.81	0.03
11:52 AM	15.11	13.89	0.05
11:53 AM	15.11	13.96	0.04
11:54 AM	15.11	14.06	0.00
11:55 AM	15.10	14.06	0.01
11:56 AM	15.11	14.01	0.01
11:57 AM	15.11	14.00	0.02
11:58 AM	15.11	13.99	0.02
11:59 AM	15.13	13.85	0.08
12:00 PM	15.13	13.97	0.07
12:01 PM	15.16	13.85	0.07
12:02 PM	15.16	13.90	0.08
12:03 PM	15.16	13.88	0.12
12:04 PM	15.15	13.65	0.11
12:05 PM	15.16	13.90	0.16
12:06 PM	15.16	13.93	0.16
12:07 PM	15.16	13.99	0.10
12:08 PM	15.16	13.89	0.15
12:09 PM	15.17	13.66	0.18
12:10 PM	15.16	13.67	0.22
12:11 PM	15.16	13.62	0.21
Average	15.14	13.88	0.09

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Run # : 3
Date: November 25, 2024
Start time: 12:12 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas

Location : HRSG3
Finish time : 12:32 PM
Serial No.: 121121-10
Serial No.: 433
Serial No.: 118
Serial No.: 0412106049
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:12 PM	15.18	13.66	0.22
12:13 PM	15.16	13.83	0.26
12:14 PM	15.18	13.84	0.22
12:15 PM	15.17	13.71	0.23
12:16 PM	15.18	13.61	0.22
12:17 PM	15.18	13.41	0.25
12:18 PM	15.18	13.52	0.22
12:19 PM	15.18	13.60	0.22
12:20 PM	15.18	13.66	0.25
12:21 PM	15.18	13.77	0.25
12:22 PM	15.18	13.63	0.25
12:23 PM	15.18	13.63	0.24
12:24 PM	15.18	13.61	0.27
12:25 PM	15.19	13.61	0.28
12:26 PM	15.18	13.57	0.28
12:27 PM	15.20	13.63	0.27
12:28 PM	15.18	13.61	0.27
12:29 PM	15.18	13.59	0.20
12:30 PM	15.18	13.59	0.25
12:31 PM	15.18	13.63	0.22
12:32 PM	15.18	13.46	0.25
Average	15.18	13.63	0.24

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800
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 TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. **REFERENCE NO. :** 224045-Stack_PM/HRSG 4_Nov
SAMPLING BY : SECOT Co., Ltd. **SAMPLING DATE :** 25/11/2024
RECEIVED DATE : 26/11/2024 **ANALYTICAL DATE :** 28-29/11/2024
REPORT DATE : 03/12/2024 **SAMPLE CONDITION :** Good
STACK LOCATION : HRSG 4 **SITE OPERATOR :** Mr. Pisanu Seenampeng
SOURCE DESCRIPTION : Combustion **FUEL TYPE :** Natural Gas

STACK DESCRIPTION

Height : 45.0 m **Gas Velocity :** 18.6 m/s
Diameter : 3.2 m **Flow rate* :** 5,733 Ncu.m/min
Temperature : 139.0 °C **Excess Oxygen :** 14.8 %
Moisture : 11.0 %

PARAMETER	UNIT	RESULT			STANDARD		REFERENCE METHOD
		14.8%O ₂	7%O ₂	g/s	7%O ₂	g/s	
Particulate Matter	mg/Ncu.m.	1.58	3.63	0.15	60 ^{1/} , 10 ^{2/}	0.61 ^{2/}	US. EPA Method 5


 (Miss Pornnapa Budthum)

Analyst

REG.NO. 3-239-ก-0018


 (Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 3-239-ก-0010

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

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

3. * At standard pressure of 760 mm.Hg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of Ministry Natural Resources and Environmental, B.E.2566 (2023).

5. ^{2/} The value was assigned in EIA report, B.E.2560

**The Monitoring Result of Emission Concentration
HRSG4
BANGPA-IN COGENERATION CO., LTD.
November 25, 2024**

Run Number	Oxygen content (%)		Oxide 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	14.90	14.82	20.67	20.64	47.19
2	14.91	14.84	20.68	20.65	47.37
3	14.92	14.86	20.70	20.67	47.57
Average	14.91	14.84	20.68	20.65	47.37

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	14.90	14.82	0.14	0.10	0.23
2	14.91	14.84	0.24	0.19	0.44
3	14.92	14.86	0.32	0.26	0.60
Average	14.91	14.84	0.23	0.18	0.42

**BANGPA-IN COGENERATION CO., LTD.
EMISSION TEST RESULT**

Date: November 25, 2024
 Start time: 11:30 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 CO instrument Model: THERMO 48 C
 Fuel Type : Natural Gas

Run # : 1
 Location : HRSG4
 Finish time : 11:50 AM
 Serial No.: 121121-10
 Serial No.: 433
 Serial No.: 118
 Serial No.: 0412106049
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:30 AM	14.88	20.69	0.05
11:31 AM	14.89	20.67	0.08
11:32 AM	14.89	20.67	0.10
11:33 AM	14.90	20.63	0.14
11:34 AM	14.90	20.65	0.06
11:35 AM	14.90	20.75	0.15
11:36 AM	14.90	20.79	0.11
11:37 AM	14.90	20.75	0.12
11:38 AM	14.90	20.66	0.14
11:39 AM	14.90	20.65	0.15
11:40 AM	14.90	20.70	0.19
11:41 AM	14.90	20.68	0.13
11:42 AM	14.90	20.57	0.13
11:43 AM	14.90	20.61	0.16
11:44 AM	14.90	20.66	0.18
11:45 AM	14.90	20.68	0.18
11:46 AM	14.90	20.67	0.19
11:47 AM	14.90	20.62	0.17
11:48 AM	14.90	20.59	0.20
11:49 AM	14.90	20.65	0.17
11:50 AM	14.90	20.77	0.15
Average	14.90	20.67	0.14

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Run # : 2
Date: November 25, 2024
Start time: 11:51 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas
Location : HRSG4
Finish time : 12:11 PM
Serial No.: 121121-10
Serial No.: 433
Serial No.: 118
Serial No.: 0412106049
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:51 AM	14.90	20.79	0.15
11:52 AM	14.90	20.80	0.18
11:53 AM	14.90	20.79	0.21
11:54 AM	14.90	20.83	0.21
11:55 AM	14.90	20.86	0.21
11:56 AM	14.90	20.69	0.22
11:57 AM	14.90	20.63	0.26
11:58 AM	14.91	20.64	0.24
11:59 AM	14.91	20.60	0.24
12:00 PM	14.90	20.67	0.23
12:01 PM	14.90	20.76	0.21
12:02 PM	14.92	20.64	0.21
12:03 PM	14.93	20.54	0.23
12:04 PM	14.93	20.56	0.27
12:05 PM	14.91	20.66	0.23
12:06 PM	14.91	20.66	0.27
12:07 PM	14.92	20.64	0.29
12:08 PM	14.90	20.70	0.30
12:09 PM	14.93	20.63	0.28
12:10 PM	14.92	20.56	0.27
12:11 PM	14.93	20.56	0.27
Average	14.91	20.68	0.24

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

BANGPA-IN COGENERATION CO., LTD. EMISSION TEST RESULT

Run # : 3
Date: November 25, 2024
Start time: 12:12 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
CO instrument Model: THERMO 48 C
Fuel Type : Natural Gas
Location : HRSG4
Finish time : 12:32 PM
Serial No.: 121121-10
Serial No.: 433
Serial No.: 118
Serial No.: 0412106049
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:12 PM	14.92	20.56	0.28
12:13 PM	14.90	20.69	0.31
12:14 PM	14.90	20.76	0.32
12:15 PM	14.91	20.73	0.28
12:16 PM	14.93	20.66	0.30
12:17 PM	14.91	20.71	0.32
12:18 PM	14.91	20.79	0.31
12:19 PM	14.92	20.76	0.29
12:20 PM	14.91	20.81	0.30
12:21 PM	14.91	20.89	0.32
12:22 PM	14.92	20.78	0.34
12:23 PM	14.93	20.65	0.36
12:24 PM	14.93	20.65	0.37
12:25 PM	14.93	20.69	0.37
12:26 PM	14.93	20.70	0.31
12:27 PM	14.93	20.70	0.34
12:28 PM	14.92	20.68	0.34
12:29 PM	14.92	20.66	0.34
12:30 PM	14.93	20.62	0.33
12:31 PM	14.93	20.63	0.33
12:32 PM	14.93	20.63	0.33
Average	14.92	20.70	0.32

Signature

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

ภาคผนวก ง.3

ใบรับรองผลการตรวจวัดระดับเสียงทั่วไป




Noise Monitoring Result : Community Noise MTR-BIC

Location : Ban Khlong Phutsa		Monitor Period : 20-25 Sep 2024			
SLM Model : Cirrus CR162B		Serial No : G302738			
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515		Serial No : 94296			
Calibration Ref dB(A) : 94.0		Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0		Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-277					
Time	Equivalent Sound Pressure Level (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
12:00 - 13:00	54.6	49.9	62.0	51.8	55.5
13:00 - 14:00	49.7	52.4	66.2	53.9	53.0
14:00 - 15:00	52.1	57.3	68.0	51.6	57.4
15:00 - 16:00	57.7	61.9	70.3	51.6	54.3
16:00 - 17:00	53.8	54.6	69.7	53.5	56.4
17:00 - 18:00	55.6	55.0	56.2	52.2	55.5
18:00 - 19:00	51.2	53.8	57.5	54.4	54.2
19:00 - 20:00	51.7	65.9	56.1	51.9	55.0
20:00 - 21:00	53.5	57.2	55.2	54.1	55.0
21:00 - 22:00	51.3	56.1	54.8	51.4	52.5
22:00 - 23:00	50.3	56.1	55.6	50.0	54.4
23:00 - 00:00	48.2	56.4	59.1	49.0	57.1
00:00 - 01:00	48.5	62.3	57.4	49.2	55.7
01:00 - 02:00	48.5	64.9	60.3	46.4	54.6
02:00 - 03:00	46.8	60.9	57.6	44.9	54.9
03:00 - 04:00	48.8	58.7	59.6	53.9	54.4
04:00 - 05:00	49.9	54.7	49.5	50.8	48.6
05:00 - 06:00	51.1	53.1	50.8	50.2	54.1
06:00 - 07:00	58.2	55.9	55.3	54.9	56.2
07:00 - 08:00	62.5	56.3	56.7	56.1	56.3
08:00 - 09:00	59.3	54.6	57.2	54.0	54.0
09:00 - 10:00	58.8	54.1	52.4	51.6	52.9
10:00 - 11:00	57.7	53.2	56.3	62.4	51.3
11:00 - 12:00	51.8	52.2	57.2	58.9	52.1
Leq(24)*	55.1	58.7	62.3	54.2	54.8
Ldn	59.2	65.9	65.5	58.3	61.3
Lmax **	83.8	95.2	93.1	90.3	87.6
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

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

** Maximum Sound Pressure Level between 12:00-12:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team




Noise Monitoring Result : Background Noise MTR-BIC

Location : Ban Khlong Phutsa			Monitor Period : 20-25 Sep 2024		
SLM Model : Cirrus CR162B			Serial No : G302738		
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515			Serial No : 94296		
Calibration Ref dB(A) : 94.0			Certified Date : 14 Feb 2024		
SLM Reading / Adjust dB(A) : 93.7/0.0			Expire Date : 13 Feb 2025		
Cal Sheet No.: CR-515-2024-277					
Time	L90 (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
12:00 - 13:00	42.2	40.2	45.7	40.1	50.8
13:00 - 14:00	40.5	42.1	62.8	39.8	43.7
14:00 - 15:00	41.9	42.8	47.6	39.8	42.6
15:00 - 16:00	45.4	41.5	49.4	41.4	42.6
16:00 - 17:00	44.2	43.7	53.2	45.2	44.9
17:00 - 18:00	46.2	45.9	52.7	46.6	46.4
18:00 - 19:00	45.5	46.4	54.0	47.1	47.4
19:00 - 20:00	48.0	53.0	53.3	46.7	49.1
20:00 - 21:00	46.9	54.1	52.6	48.2	49.0
21:00 - 22:00	46.3	52.7	52.4	47.9	47.4
22:00 - 23:00	45.1	52.7	51.8	46.5	47.1
23:00 - 00:00	44.5	52.4	51.3	45.0	46.4
00:00 - 01:00	44.3	53.2	49.1	44.4	45.3
01:00 - 02:00	44.1	53.4	47.3	43.2	43.3
02:00 - 03:00	43.2	49.9	44.9	42.2	42.1
03:00 - 04:00	43.4	50.1	44.8	43.3	42.3
04:00 - 05:00	44.5	46.6	43.9	44.2	43.0
05:00 - 06:00	44.1	45.6	44.5	44.4	44.9
06:00 - 07:00	46.7	46.6	47.0	46.4	47.1
07:00 - 08:00	48.4	48.1	48.6	48.6	51.3
08:00 - 09:00	45.4	44.8	46.3	46.3	45.5
09:00 - 10:00	41.7	45.7	43.5	42.9	45.2
10:00 - 11:00	41.4	45.1	48.8	43.6	41.8
11:00 - 12:00	39.2	43.6	45.0	45.3	39.8
L90(avg)*	44.9	49.4	52.4	45.2	46.4

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


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BIC

Location : Northeast Fence			Monitor Period : 20-25 Sep 2024		
SLM Model : Cirrus CR162B			Serial No : G300709		
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515			Serial No : 94296		
Calibration Ref dB(A) : 94.0			Certified Date : 14 Feb 2024		
SLM Reading / Adjust dB(A) : 93.7/0.0			Expire Date : 13 Feb 2025		
Cal Sheet No.: CR-515-2024-277					
Time	Equivalent Sound Pressure Level (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
14:00 - 15:00	64.4	63.8	63.0	64.8	65.0
15:00 - 16:00	63.8	64.1	66.4	65.2	65.7
16:00 - 17:00	64.1	64.5	67.0	65.5	65.1
17:00 - 18:00	65.0	64.7	65.1	65.4	65.7
18:00 - 19:00	66.3	67.1	65.5	67.4	67.4
19:00 - 20:00	64.2	67.9	64.1	65.2	65.1
20:00 - 21:00	64.4	65.2	64.8	66.1	65.2
21:00 - 22:00	63.7	64.0	64.2	65.1	64.4
22:00 - 23:00	64.1	63.8	63.7	65.0	64.3
23:00 - 00:00	66.8	67.1	63.2	64.7	64.3
00:00 - 01:00	62.3	62.8	63.0	63.9	64.8
01:00 - 02:00	62.2	62.8	62.8	63.6	63.8
02:00 - 03:00	61.8	62.7	62.6	63.7	63.7
03:00 - 04:00	62.2	62.5	62.8	63.6	64.2
04:00 - 05:00	63.8	63.5	63.8	64.7	64.6
05:00 - 06:00	64.8	64.3	65.2	65.8	65.9
06:00 - 07:00	63.2	63.2	64.6	64.3	64.5
07:00 - 08:00	63.9	63.9	65.5	65.3	66.0
08:00 - 09:00	64.2	63.8	64.9	64.8	65.0
09:00 - 10:00	62.9	63.1	64.7	64.4	64.9
10:00 - 11:00	63.9	63.0	64.7	65.0	64.4
11:00 - 12:00	64.1	63.3	65.3	64.7	64.2
12:00 - 13:00	63.1	62.8	64.1	64.4	63.9
13:00 - 14:00	63.1	63.1	64.7	64.9	64.2
Leq(24)*	64.0	64.3	64.6	65.0	64.9
Ldn	70.2	70.4	70.3	71.0	71.0
Lmax **	94.8	96.6	85.8	87.3	90.3
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BIC

Location : Northeast Fence			Monitor Period : 20-25 Sep 2024		
SLM Model : Cirrus CR162B			Serial No : G300709		
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515			Serial No : 94296		
Calibration Ref dB(A) : 94.0			Certified Date : 14 Feb 2024		
SLM Reading / Adjust dB(A) : 93.7/0.0			Expire Date : 13 Feb 2025		
Cal Sheet No.: CR-515-2024-277					
Time	L90 (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
14:00 – 15:00	63.0	62.7	61.7	63.8	64.2
15:00 – 16:00	62.5	62.9	62.6	64.1	63.8
16:00 – 17:00	62.2	63.0	62.9	64.1	63.9
17:00 – 18:00	63.4	63.0	62.6	64.1	64.1
18:00 – 19:00	63.6	63.8	63.7	65.1	64.6
19:00 – 20:00	63.1	64.6	63.4	64.1	64.0
20:00 – 21:00	63.0	63.6	63.8	64.5	63.4
21:00 – 22:00	63.1	63.1	63.6	64.2	63.4
22:00 – 23:00	63.0	63.1	62.3	64.2	63.6
23:00 – 00:00	62.0	62.2	62.4	63.5	63.3
00:00 – 01:00	61.4	62.1	62.2	63.2	63.1
01:00 – 02:00	61.5	62.3	62.3	63.0	63.1
02:00 – 03:00	61.3	62.1	62.2	62.9	62.9
03:00 – 04:00	61.5	62.0	62.2	62.8	63.0
04:00 – 05:00	62.2	62.2	62.5	63.4	63.3
05:00 – 06:00	62.8	63.1	63.8	64.3	64.5
06:00 – 07:00	61.9	62.1	63.6	63.2	63.5
07:00 – 08:00	62.2	62.3	63.9	63.7	64.1
08:00 – 09:00	61.6	61.7	63.8	63.7	63.8
09:00 – 10:00	61.9	61.6	63.9	63.6	63.9
10:00 – 11:00	62.4	61.9	63.9	63.9	63.5
11:00 – 12:00	63.0	62.0	64.0	63.7	63.3
12:00 – 13:00	61.4	62.1	63.3	63.5	63.1
13:00 – 14:00	62.0	62.0	63.8	64.0	63.0
L90(avg)*	62.4	62.6	63.2	63.8	63.6

Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team





Noise Monitoring Result : Community Noise MTR-BIC

Location : South Fence		Monitor Period : 20-25 Sep 2024			
SLM Model : Cirrus CR162B		Serial No : G300769			
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515		Serial No : 94296			
Calibration Ref dB(A) : 94.0		Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.5/0.2		Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-277					
Time	Equivalent Sound Pressure Level (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	64.8	64.6	60.9	61.0	65.5
14:00 - 15:00	64.8	64.2	60.8	61.0	65.8
15:00 - 16:00	65.3	64.3	61.1	61.2	65.6
16:00 - 17:00	65.2	64.6	60.8	61.1	65.5
17:00 - 18:00	65.6	64.9	61.4	61.9	65.4
18:00 - 19:00	65.7	65.2	61.4	61.5	65.9
19:00 - 20:00	65.8	65.1	61.2	61.4	65.8
20:00 - 21:00	65.9	65.2	61.3	61.4	65.7
21:00 - 22:00	65.8	65.3	61.4	61.3	65.6
22:00 - 23:00	62.3	65.4	61.5	61.3	65.7
23:00 - 00:00	61.5	65.3	61.5	61.5	65.7
00:00 - 01:00	61.3	64.9	61.3	65.7	65.5
01:00 - 02:00	61.4	65.0	61.4	65.2	65.2
02:00 - 03:00	61.5	65.0	61.4	65.3	65.3
03:00 - 04:00	61.4	65.0	61.4	65.1	65.4
04:00 - 05:00	61.4	65.1	61.3	65.1	65.2
05:00 - 06:00	61.6	65.2	61.3	65.3	65.2
06:00 - 07:00	64.5	65.3	61.4	65.3	65.3
07:00 - 08:00	66.3	65.3	61.8	65.2	65.5
08:00 - 09:00	65.6	65.2	61.4	65.3	66.3
09:00 - 10:00	65.7	65.2	61.4	65.3	65.6
10:00 - 11:00	65.5	64.4	61.3	65.3	65.7
11:00 - 12:00	65.0	62.6	61.0	65.5	65.5
12:00 - 13:00	64.7	60.8	60.5	65.7	65.0
Leq(24)*	64.5	64.8	61.3	63.9	65.5
Ldn	69.1	71.5	67.8	70.9	71.8
Lmax **	83.1	79.9	82.5	84.4	82.1
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team




Noise Monitoring Result : Background Noise MTR-BIC

Location : South Fence			Monitor Period : 20-25 Sep 2024		
SLM Model : Cirrus CR162B			Serial No : G300769		
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515			Serial No : 94296		
Calibration Ref dB(A) : 94.0			Certified Date : 14 Feb 2024		
SLM Reading / Adjust dB(A) : 93.5/0.2			Expire Date : 13 Feb 2025		
Cal Sheet No.: CR-515-2024-277					
Time	L90 (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	64.5	64.4	60.5	60.5	65.1
14:00 - 15:00	64.6	63.9	60.4	60.7	65.7
15:00 - 16:00	65.1	63.9	60.6	60.8	65.5
16:00 - 17:00	65.0	64.3	60.5	60.9	65.3
17:00 - 18:00	65.1	64.6	60.6	61.0	65.2
18:00 - 19:00	65.5	64.8	60.9	61.1	65.4
19:00 - 20:00	65.7	65.0	61.0	61.0	65.5
20:00 - 21:00	65.7	65.1	61.1	61.1	65.5
21:00 - 22:00	65.8	65.2	61.3	61.2	65.4
22:00 - 23:00	61.2	65.3	61.4	61.2	65.6
23:00 - 00:00	61.2	64.9	61.2	61.2	65.6
00:00 - 01:00	61.2	64.8	61.1	65.2	65.1
01:00 - 02:00	61.3	64.9	61.3	65.1	65.1
02:00 - 03:00	61.4	64.9	61.2	65.1	65.2
03:00 - 04:00	61.3	64.9	61.3	65.0	65.2
04:00 - 05:00	61.2	65.0	61.2	65.0	65.1
05:00 - 06:00	61.3	65.0	61.1	65.1	65.1
06:00 - 07:00	61.5	65.1	61.1	65.2	65.2
07:00 - 08:00	65.5	65.0	61.2	65.0	65.2
08:00 - 09:00	65.3	64.8	61.0	65.1	65.5
09:00 - 10:00	65.5	65.0	61.1	65.0	65.3
10:00 - 11:00	65.2	63.9	61.0	65.1	65.5
11:00 - 12:00	64.7	60.8	60.7	65.0	65.2
12:00 - 13:00	64.4	60.5	60.2	65.4	64.7
L90(avg)*	64.1	64.5	61.0	63.7	65.3

Remark : * Average time between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BIC

Location : East Fence		Monitor Period : 20-25 Sep 2024			
SLM Model : Cirrus CR162B		Serial No : G302333			
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515		Serial No : 94296			
Calibration Ref dB(A) : 94.0		Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0		Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-277					
Time	Equivalent Sound Pressure Level (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	60.3	60.3	58.7	60.2	60.4
14:00 - 15:00	61.4	60.3	58.9	60.7	60.6
15:00 - 16:00	60.8	59.7	62.2	59.8	60.4
16:00 - 17:00	60.7	61.3	63.8	60.3	61.0
17:00 - 18:00	61.6	61.0	60.8	60.7	61.6
18:00 - 19:00	61.5	60.8	61.3	61.1	61.5
19:00 - 20:00	60.7	63.8	61.3	60.2	60.5
20:00 - 21:00	60.5	60.3	61.7	60.9	60.6
21:00 - 22:00	60.0	59.7	61.5	60.2	60.0
22:00 - 23:00	60.5	60.0	60.8	60.1	59.8
23:00 - 00:00	60.4	60.3	59.9	59.5	59.7
00:00 - 01:00	58.8	58.9	59.8	58.6	58.9
01:00 - 02:00	58.8	58.6	59.2	58.3	58.9
02:00 - 03:00	58.7	58.3	58.8	58.3	58.9
03:00 - 04:00	58.8	58.2	58.7	58.7	59.5
04:00 - 05:00	59.1	58.3	58.7	59.0	59.4
05:00 - 06:00	59.4	59.0	59.4	59.7	59.9
06:00 - 07:00	59.5	59.2	59.5	59.5	60.0
07:00 - 08:00	59.9	59.5	60.3	60.3	60.4
08:00 - 09:00	59.9	59.5	59.6	62.4	59.6
09:00 - 10:00	60.2	59.6	60.7	62.5	60.2
10:00 - 11:00	60.5	59.3	60.1	61.7	60.2
11:00 - 12:00	60.1	59.1	59.7	60.1	59.9
12:00 - 13:00	59.6	58.7	58.4	59.5	59.4
Leq(24)*	60.2	59.9	60.4	60.2	60.1
Ldn	66.0	65.7	66.1	65.8	66.0
Lmax **	84.4	84.8	90.4	82.9	78.1
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BIC

Location : East Fence			Monitor Period : 20-25 Sep 2024		
SLM Model : Cirrus CR162B			Serial No : G302333		
Site Operator : Mr. Sittichai Sawangwongchai					
Calibrator Model : Cirrus CR:515			Serial No : 94296		
Calibration Ref dB(A) : 94.0			Certified Date : 14 Feb 2024		
SLM Reading / Adjust dB(A) : 93.7/0.0			Expire Date : 13 Feb 2025		
Cal Sheet No.: CR-515-2024-277					
Time	L90 (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	59.1	59.0	57.7	58.3	59.3
14:00 - 15:00	59.8	58.9	57.7	59.3	59.8
15:00 - 16:00	59.9	59.0	57.8	59.0	59.8
16:00 - 17:00	59.7	59.2	59.2	59.0	60.0
17:00 - 18:00	60.2	59.5	58.8	59.2	60.1
18:00 - 19:00	60.5	59.4	60.7	60.3	60.3
19:00 - 20:00	60.1	60.3	60.9	59.7	59.9
20:00 - 21:00	59.6	59.7	61.1	59.7	59.6
21:00 - 22:00	59.6	59.4	61.1	59.4	59.3
22:00 - 23:00	59.8	59.5	60.1	59.2	59.2
23:00 - 00:00	59.0	59.0	59.5	58.4	58.9
00:00 - 01:00	58.4	58.5	59.4	57.9	58.4
01:00 - 02:00	58.4	58.1	58.8	58.0	58.5
02:00 - 03:00	58.3	57.9	58.4	57.9	58.6
03:00 - 04:00	58.4	57.8	58.4	57.9	58.6
04:00 - 05:00	58.5	57.8	58.3	58.0	58.8
05:00 - 06:00	58.8	58.4	58.7	58.5	59.1
06:00 - 07:00	58.6	58.5	58.7	58.4	59.1
07:00 - 08:00	58.9	58.2	58.9	58.9	59.4
08:00 - 09:00	58.8	58.1	58.5	58.9	58.9
09:00 - 10:00	59.5	58.2	59.5	59.1	59.5
10:00 - 11:00	59.3	58.2	59.1	59.4	59.4
11:00 - 12:00	59.2	58.2	58.8	59.5	59.2
12:00 - 13:00	58.5	57.9	57.5	58.8	58.7
L90(avg)*	59.3	58.8	59.2	58.9	59.3

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-BIC

Location : West Fence Monitor Period : 20-25 Sep 2024
SLM Model : Cirrus CR162B Serial No : G302742
Site Operator : Mr. Sittichai Sawangwongchai

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-515-2024-277

Time	Equivalent Sound Pressure Level (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	63.2	63.9	63.2	63.6	64.2
14:00 - 15:00	63.2	64.0	63.0	63.8	64.1
15:00 - 16:00	63.9	63.9	64.6	63.8	64.2
16:00 - 17:00	64.0	64.0	65.9	64.2	64.4
17:00 - 18:00	64.3	64.4	66.3	65.1	65.2
18:00 - 19:00	65.7	65.9	65.8	66.4	65.9
19:00 - 20:00	64.4	65.8	64.9	65.0	65.4
20:00 - 21:00	64.4	65.0	64.9	65.0	64.5
21:00 - 22:00	64.3	64.7	64.9	64.6	64.6
22:00 - 23:00	64.3	64.7	64.6	64.6	64.6
23:00 - 00:00	64.2	64.7	64.2	64.4	64.6
00:00 - 01:00	63.4	64.2	64.0	63.8	63.6
01:00 - 02:00	63.3	64.0	64.0	63.6	63.6
02:00 - 03:00	63.4	63.9	63.9	63.9	63.6
03:00 - 04:00	63.5	63.8	63.8	63.8	63.6
04:00 - 05:00	63.7	64.1	64.2	64.1	63.8
05:00 - 06:00	64.3	64.9	64.9	64.6	64.5
06:00 - 07:00	63.6	64.4	64.3	63.9	63.8
07:00 - 08:00	63.7	64.2	64.2	64.0	63.8
08:00 - 09:00	63.5	64.0	63.9	63.7	63.5
09:00 - 10:00	63.8	64.0	64.5	64.4	64.2
10:00 - 11:00	63.5	63.7	64.3	64.6	64.1
11:00 - 12:00	63.6	63.6	64.0	64.4	63.8
12:00 - 13:00	62.7	63.3	63.4	63.6	63.3
Leq(24)*	63.9	64.3	64.5	64.3	64.3
Ldn	70.2	70.7	70.7	70.6	
Lmax **	76.6	83.1	93.9	79.7	83.9
Standard-24Hr	70 dB(A)				
Standard-Max	115 dB(A)				

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-BIC

Location : West Fence Monitor Period : 20-25 Sep 2024
SLM Model : Cirrus CR162B Serial No : G302742
Site Operator : Mr. Sittichai Sawangwongchai

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-515-2024-277

Time	L90 (dB(A))				
	20-21 Sep 2024	21-22 Sep 2024	22-23 Sep 2024	23-24 Sep 2024	24-25 Sep 2024
13:00 - 14:00	62.6	62.9	62.8	62.9	63.5
14:00 - 15:00	62.5	63.6	62.5	63.4	63.7
15:00 - 16:00	63.4	63.4	63.2	63.4	63.8
16:00 - 17:00	63.6	63.6	64.3	63.7	64.0
17:00 - 18:00	63.8	63.8	64.3	64.2	64.2
18:00 - 19:00	64.3	64.5	64.6	64.8	64.4
19:00 - 20:00	64.0	64.8	64.6	64.5	64.3
20:00 - 21:00	64.1	64.6	64.6	64.5	64.2
21:00 - 22:00	64.1	64.4	64.6	64.3	64.3
22:00 - 23:00	64.0	64.4	64.1	64.3	64.3
23:00 - 00:00	63.6	64.1	63.9	63.7	64.0
00:00 - 01:00	63.0	63.9	63.7	63.4	63.3
01:00 - 02:00	63.0	63.7	63.6	63.3	63.3
02:00 - 03:00	63.0	63.6	63.5	63.4	63.3
03:00 - 04:00	63.2	63.5	63.5	63.5	63.2
04:00 - 05:00	63.4	63.8	63.7	63.7	63.5
05:00 - 06:00	63.8	64.3	64.4	64.1	63.8
06:00 - 07:00	63.2	63.9	63.8	63.5	63.4
07:00 - 08:00	63.2	63.7	63.7	63.5	63.4
08:00 - 09:00	63.0	63.5	63.5	63.3	63.1
09:00 - 10:00	63.3	63.3	64.0	63.9	63.8
10:00 - 11:00	63.1	63.2	63.9	64.1	63.7
11:00 - 12:00	63.1	63.1	63.6	64.0	63.3
12:00 - 13:00	62.3	62.9	62.9	63.0	62.7
L90(avg)*	63.4	63.8	63.8	63.8	63.7

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ง.4

ใบรับรองผลการตรวจวัดระดับเสียงในสถานที่ทำงาน



Noise Monitoring Result : Working Noise

MTR-BIC

LOCATION	: Gas Turbine Generator 1	MEASUREMENT DATE	: 07-08-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820729
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07-08-2024	
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		
09:00 - 10:00		79.0
10:00 - 11:00		78.8
11:00 - 12:00		78.3
12:00 - 13:00		78.2
13:00 - 14:00		78.9
14:00 - 15:00		79.1
15:00 - 16:00		79.1
16:00 - 17:00		79.2
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)		78.8
Lmax		87.6
Standard*		90 dB(A)
Standard-Max		140 dB(A)

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

(Miss Katesarin Vorraderwitaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-BIC

LOCATION	: Gas Turbine Generator 2	MEASUREMENT DATE	: 07-08-2024
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07-08-2024	
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		
09:00 - 10:00		81.0
10:00 - 11:00		80.7
11:00 - 12:00		78.6
12:00 - 13:00		78.7
13:00 - 14:00		79.8
14:00 - 15:00		79.9
15:00 - 16:00		79.8
16:00 - 17:00		79.7
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)		79.8
Lmax		87.3
Standard*		90 dB(A)
Standard-Max		140 dB(A)

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

(Miss Katesarin Vorraderwitaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise

MTR-BIC

LOCATION	: Steam Turbine (STG) 1	MEASUREMENT DATE	: 07-08-2024
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07-08-2024
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	
09:00 - 10:00	83.9
10:00 - 11:00	83.7
11:00 - 12:00	82.8
12:00 - 13:00	82.4
13:00 - 14:00	84.1
14:00 - 15:00	83.8
15:00 - 16:00	85.1
16:00 - 17:00	84.6
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(8)	83.9
Lmax	90.6
Standard*	90 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-BIC

LOCATION	: Cooling tower	MEASUREMENT DATE	: 07-08-2024
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	07-08-2024
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	
09:00 - 10:00	83.6
10:00 - 11:00	83.6
11:00 - 12:00	83.6
12:00 - 13:00	83.6
13:00 - 14:00	83.7
14:00 - 15:00	83.4
15:00 - 16:00	83.6
16:00 - 17:00	83.6
17:00 - 18:00	
18:00 - 19:00	
19:00 - 20:00	
20:00 - 21:00	
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(8)	83.6
Lmax	84.7
Standard*	90 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-BIC

LOCATION	: Steam Turbine (STG) 2	MEASUREMENT DATE	: 07-08-2024
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07-08-2024	
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		
09:00 - 10:00	84.3	
10:00 - 11:00	84.1	
11:00 - 12:00	83.5	
12:00 - 13:00	84.5	
13:00 - 14:00	84.2	
14:00 - 15:00	84.7	
15:00 - 16:00	83.8	
16:00 - 17:00	85.6	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	84.4	
Lmax	92.0	
Standard*	90 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-BIC

LOCATION	: Gas Turbine Generator 3	MEASUREMENT DATE	: 07-08-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820726
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07-08-2024	
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		
09:00 - 10:00	80.2	
10:00 - 11:00	80.3	
11:00 - 12:00	80.5	
12:00 - 13:00	80.3	
13:00 - 14:00	80.4	
14:00 - 15:00	80.3	
15:00 - 16:00	80.1	
16:00 - 17:00	80.3	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	80.3	
Lmax	81.4	
Standard*	90 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-BIC

LOCATION	: Gas Turbine Generator 4	MEASUREMENT DATE	: 07-08-2024
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-2408-0132-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	07-08-2024	
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		
09:00 - 10:00	81.1	
10:00 - 11:00	83.3	
11:00 - 12:00	82.9	
12:00 - 13:00	81.8	
13:00 - 14:00	83.4	
14:00 - 15:00	81.3	
15:00 - 16:00	81.2	
16:00 - 17:00	85.9	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	82.9	
Lmax	88.5	
Standard*	90 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-BIC


LOCATION	: Gas Turbine Generator 1	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Salisa Ainree		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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	77.0	
09:00 - 10:00	76.8	
10:00 - 11:00	76.8	
11:00 - 12:00	76.9	
12:00 - 13:00	77.0	
13:00 - 14:00	78.7	
14:00 - 15:00	79.2	
15:00 - 16:00	79.3	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	77.8	
Lmax	81.2	
Standard*	90 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-BIC

LOCATION	: Gas Turbine Generator 2	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: Cirrus CR162B	SERIAL No.	: G302738
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.7	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.7/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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		79.0
09:00 - 10:00		78.3
10:00 - 11:00		78.5
11:00 - 12:00		78.7
12:00 - 13:00		79.6
13:00 - 14:00		82.6
14:00 - 15:00		81.2
15:00 - 16:00		78.5
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)		79.8
Lmax		86.4
Standard*		90 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-BIC

LOCATION	: Steam Turbine (STG) 1	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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		82.3
09:00 - 10:00		82.6
10:00 - 11:00		83.1
11:00 - 12:00		84.7
12:00 - 13:00		84.0
13:00 - 14:00		83.7
14:00 - 15:00		82.6
15:00 - 16:00		81.5
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)		83.2
Lmax		91.8
Standard*		90 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-BIC

LOCATION	: Cooling tower	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: Cirrus CR162B	SERIAL No.	: G302741
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.7	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.7/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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	81.1	
09:00 - 10:00	80.8	
10:00 - 11:00	80.7	
11:00 - 12:00	80.7	
12:00 - 13:00	80.8	
13:00 - 14:00	81.1	
14:00 - 15:00	81.3	
15:00 - 16:00	81.3	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	81.0	
Lmax	81.9	
Standard*	90 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-BIC

LOCATION	: Steam Turbine (STG) 2	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820726
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR.515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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	83.2	
09:00 - 10:00	82.1	
10:00 - 11:00	83.7	
11:00 - 12:00	82.6	
12:00 - 13:00	83.2	
13:00 - 14:00	84.3	
14:00 - 15:00	82.1	
15:00 - 16:00	82.3	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	83.0	
Lmax	100.0	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

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

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Technical Management Team



Noise Monitoring Result : Working Noise


MTR-BIC

LOCATION	: Gas Turbine Generator 3	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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	79.0	
09:00 - 10:00	78.3	
10:00 - 11:00	78.4	
11:00 - 12:00	78.1	
12:00 - 13:00	78.9	
13:00 - 14:00	80.1	
14:00 - 15:00	80.2	
15:00 - 16:00	80.2	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	79.2	
Lmax	92.1	
Standard*	90 dB(A)	
Standard-Max	140 dB(A)	

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


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Technical Management Team



Noise Monitoring Result : Working Noise


MTR-BIC

LOCATION	: Gas Turbine Generator 4	MEASUREMENT DATE	: 06-11-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820727
SITE OPERATOR	: Miss Salisa Ainree		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0034-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	06-11-2024	
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	80.5	
09:00 - 10:00	80.0	
10:00 - 11:00	79.9	
11:00 - 12:00	79.9	
12:00 - 13:00	80.2	
13:00 - 14:00	84.2	
14:00 - 15:00	84.6	
15:00 - 16:00	84.4	
16:00 - 17:00		
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(8)	82.2	
Lmax	88.2	
Standard*	90 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

ภาคผนวก ง.5

ใบรับรองผลการตรวจวัดคุณภาพน้ำทิ้ง



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1383/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 05/07/2024	SAMPLING TIME	: 13:39
RECEIVED DATE	: 06/07/2024	ANALYTICAL DATE	: 06-13/07/024
REPORT DATE	: 15/07/2024	SITE OPERATOR	: Mr.Sittichai Sawangwongchai
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_July
LOCATION DESCRIPTION	1.บ่อดักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				1	
Temperature	°C	2550 B	< 0.5	34.3	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.38	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	22.6	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,722	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	6	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.2	≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	2.4	≤ 100
COD	mg/l	5220 D	< 40.00	69.44	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.28	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. ๖-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1383/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 05/07/2024	SAMPLING TIME	: 13:52
RECEIVED DATE	: 06/07/2024	ANALYTICAL DATE	: 06-13/07/024
REPORT DATE	: 15/07/2024	SITE OPERATOR	: Mr.Sittichai Sawangwongchai
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_July
LOCATION DESCRIPTION	2.บ่อดักตรวจสอบคุณภาพน้ำทิ้งก่อนระบายเข้าสู่ระบบ บำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				2	
Temperature	°C	2550 B	< 0.5	32.3	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.27	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	26.8	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	432	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 500
COD	mg/l	5220 D	< 40.00	48.33	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	ND	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.05	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. ๖-239-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	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1593/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 07/08/2024	SAMPLING TIME	: 08:56
RECEIVED DATE	: 08/08/2024	ANALYTICAL DATE	: 08-16/08/2024
REPORT DATE	: 17/08/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_August
LOCATION DESCRIPTION	1. บ่อพักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				I	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	32.5	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.42	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	24.4	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,592	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	8	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.4	≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	2.5	≤ 100
COD	mg/l	5220 D	< 40.00	57.46	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.21	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 3-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 3-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1593/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 07/08/2024	SAMPLING TIME	: 09:00
RECEIVED DATE	: 08/08/2024	ANALYTICAL DATE	: 08-16/08/2024
REPORT DATE	: 17/08/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_August
LOCATION DESCRIPTION	2. บ่อตรวจสอบคุณภาพน้ำทิ้งก่อนระบายเข้าสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	30.7	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.25	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	19.7	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	448	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	6	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.8	≤ 500
COD	mg/l	5220 D	< 40.00	< 40.00	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.04	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 3-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 3-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1838/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/09/2024	SAMPLING TIME	: 09:10
RECEIVED DATE	: 05/09/2024	ANALYTICAL DATE	: 05-11/09/2024
REPORT DATE	: 12/09/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_September
LOCATION DESCRIPTION	1.บ่อกักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS	ND	STATION		STANDARD ^{1/}
		METHODS	(non-detectable)	I		
Temperature	°C	2550 B	< 0.5	31.3		≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.17		5.5 - 9.0
Color	ADMI	2120 F	< 6.0	22.6		≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,158		≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	8		≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND		≤ 10
BOD ₅	mg/l	5210 B	< 1.0	1.5		≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	2.9		≤ 100
COD	mg/l	5220 D	< 40.00	71.20		≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02		≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.22		≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 3-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 3-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1838/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/09/2024	SAMPLING TIME	: 09:00
RECEIVED DATE	: 05/09/2024	ANALYTICAL DATE	: 05-11/09/2024
REPORT DATE	: 12/09/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_September
LOCATION DESCRIPTION	2.บ่อดักของบ่อบำบัดน้ำทิ้งก่อนระบายเข้าสู่ระบบ บำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	2	
Temperature	°C	2550 B	< 0.5	31.7	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.44	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	19.8	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	276	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	13	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	4.2	≤ 500
COD	mg/l	5220 D	< 40.00	59.78	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	ND	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.10	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 3-239-ก-0005

(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1997/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 02/10/2024	SAMPLING TIME	: 09:45
RECEIVED DATE	: 03/10/2024	ANALYTICAL DATE	: 03-10/10/2024
REPORT DATE	: 11/10/2024	SITE OPERATOR	: Miss Thipsuda Wannakran
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_October
LOCATION DESCRIPTION	1.บ่อพักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				1	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	32.2	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.64	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	20.8	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,602	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	10	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.0	≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	2.5	≤ 100
COD	mg/l	5220 D	< 40.00	66.67	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.15	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	1997/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 02/10/2024	SAMPLING TIME	: 09:35
RECEIVED DATE	: 03/10/2024	ANALYTICAL DATE	: 03-10/10/2024
REPORT DATE	: 11/10/2024	SITE OPERATOR	: Miss Thipsuda Wannakran
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_October
LOCATION DESCRIPTION	2.บ่อดำรงสับคุณภาพน้ำทิ้งก่อนระบายเข้าสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	31.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.48	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	18.4	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	750	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	1.8	≤ 500
COD	mg/l	5220 D	< 40.00	41.06	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.04	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No. :	2249/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 06/11/2024	SAMPLING TIME	: 09:30
RECEIVED DATE	: 07/11/2024	ANALYTICAL DATE	: 07-15/11/2024
REPORT DATE	: 18/11/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_November
LOCATION DESCRIPTION	1. บ่อพักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				1	
Temperature	°C	2550 B	< 0.5	28.6	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.08	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	25.4	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,203	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	8	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.7	≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	2.6	≤ 100
COD	mg/l	5220 D	< 40.00	65.64	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.18	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

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Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No. :	2249/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 06/11/2024	SAMPLING TIME	: 09:20
RECEIVED DATE	: 07/11/2024	ANALYTICAL DATE	: 07-15/11/2024
REPORT DATE	: 18/11/2024	SITE OPERATOR	: Mr. Chitpon Somprasong
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_November
LOCATION DESCRIPTION	2. บ่อตรวจสอบคุณภาพน้ำทิ้งก่อนระบายเข้าสู่ระบบ บำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				2	
Temperature	°C	2550 B	< 0.5	29.1	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.32	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	21.9	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	1,314	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	6	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	2.1	≤ 500
COD	mg/l	5220 D	< 40.00	< 40.00	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.13	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tippasuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	2522/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/12/2024	SAMPLING TIME	: 09:31
RECEIVED DATE	: 05/12/2024	ANALYTICAL DATE	: 05-12/12/2024
REPORT DATE	: 12/12/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_December
LOCATION DESCRIPTION	1. บ่อพักน้ำทิ้งจากระบบหล่อเย็น		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				I	
Temperature	°C	2550 B	< 0.5	30.0	≤ 45
pH	-	4500-H ⁺ B	< 0.10	8.13	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	29.8	≤ 600
Total Dissolved Solids	mg/l	2540 C	< 50	2,296	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	5	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	1.9	≤ 500
TKN	mg/l	4500-N _{org} B	< 0.20	3.4	≤ 100
COD	mg/l	5220 D	< 40.00	81.67	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.14	≤ 5.0

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

(Miss Khemchuda Insorn)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Bangpa-in Cogeneration Limited	REQUEST SERVICE No.:	2522/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 04/12/2024	SAMPLING TIME	: 09:22
RECEIVED DATE	: 05/12/2024	ANALYTICAL DATE	: 05-12/12/2024
REPORT DATE	: 12/12/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224045_WW_December
LOCATION DESCRIPTION	2. บ่อตรวจสอบคุณภาพน้ำทิ้งก่อนระบายเข้าสู่ระบบบำบัดน้ำเสียส่วนกลางของนิคมอุตสาหกรรมบางปะอิน		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				2	
Temperature	°C	2550 B	< 0.5	28.2	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.98	5.5 - 9.0
Color	ADMI	2120 F	< 6.0	36.1	≤ 600
Free Chlorine	mg/l	4500-Cl G	< 0.03	ND	≤ 1
Total Dissolved Solids	mg/l	2540 C	< 50	352	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	8	≤ 200
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	4.8	≤ 500
COD	mg/l	5220 D	< 40.00	45.00	≤ 750
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Zinc (Zn)	mg/l	3120 B	< 0.003	0.06	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparak)

Technical Management Team

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ภาคผนวก ง.6

ใบรับรองผลการตรวจวัดความร้อนในที่ทำงาน



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045_BIC_Heat/Aug
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/08/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210178, 3522210176
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{avg}	
Gas Turbine Generator 1	10:27-10:57	26.6	31.6	33.5	28.5	28.8	34.0
	10:57-11:27	26.9	32.6	34.8	29.0		
	11:27-11:57	26.9	32.7	34.6	29.0		
	11:57-12:27	26.5	32.2	34.6	28.7		
Gas Turbine Generator 2	10:25-10:55	27.2	32.1	36.3	29.5	29.4	34.0
	10:55-11:25	26.6	32.4	37.0	29.3		
	11:25-11:55	27.1	33.6	37.0	29.7		
	11:55-12:25	26.8	32.3	35.1	29.0		

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
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 : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045_BIC_Heat/Aug
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/08/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210178, 3522210176
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{avg}	
Gas Turbine Generator 3	12:32-13:02	27.7	33.8	35.6	29.9	30.1	34.0
	13:02-13:32	28.1	34.4	35.9	30.3		
	13:32-14:02	27.3	33.9	35.9	29.7		
	14:02-14:32	28.1	35.2	37.1	30.6		
Gas Turbine Generator 4	12:30-13:00	27.3	34.0	36.5	29.8	30.3	34.0
	13:00-13:30	27.9	34.8	36.8	30.4		
	13:30-14:00	28.0	34.0	37.1	30.4		
	14:00-14:30	27.9	35.2	37.0	30.5		

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team

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HEAT STRESS MEASUREMENT REPORT

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/08/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210179, 3522210174
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{Tout}	WBGT _{Avg}	
HRSG 1	10:30-11:00	27.0	32.2	33.6	28.9	29.0	34.0
	11:00-11:30	27.3	33.6	35.1	29.5		
	11:30-12:00	26.7	32.2	34.5	28.8		
	12:00-12:30	26.6	32.2	33.7	28.6		
HRSG 2	10:28-10:58	27.3	33.0	37.5	29.9	29.3	34.0
	10:58-11:28	26.8	33.8	36.7	29.5		
	11:28-11:58	26.8	32.9	36.7	29.4		
	11:58-12:28	26.2	32.5	34.7	28.5		

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045_BIC_Heat/Aug
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 07/08/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210179, 3522210174
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{Tout}	WBGT _{Avg}	
HRSG 3	12:35-13:05	27.1	32.9	34.8	29.2	30.3	34.0
	13:05-13:35	28.2	34.5	35.7	30.3		
	13:35-14:05	28.4	36.0	36.3	30.7		
	14:05-14:35	28.5	35.3	36.8	30.8		
HRSG 4	12:30-13:00	26.8	33.4	36.2	29.3	29.8	34.0
	13:00-13:30	27.8	34.7	35.7	30.1		
	13:30-14:00	27.2	34.4	36.4	29.8		
	14:00-14:30	27.0	35.6	36.6	29.8		

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045_BIC_Heat/Nov
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 06/11/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210179, 3522210174
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{Tout}	WBGT _{Avg}	
Gas Turbine Generator 1	10:29-10:59	25.1	30.5	33.0	27.2	28.0	34.0
	10:59-11:29	25.4	31.1	34.2	27.7		
	11:29-11:59	26.0	32.1	35.4	28.5		
	11:59-12:29	26.2	31.8	34.9	28.5		
Gas Turbine Generator 2	10:02-10:32	26.3	30.4	34.8	28.4	27.5	34.0
	10:32-11:02	24.9	29.7	31.7	26.8		
	11:02-11:32	25.2	30.2	31.7	27.0		
	11:32-12:02	25.8	31.0	32.5	27.7		

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 06/11/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210173, 3522210176
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{Tout}	WBGT _{Avg}	
Gas Turbine Generator 3	10:14-10:44	24.7	28.8	30.4	26.3	26.9	34.0
	10:44-11:14	25.0	29.0	30.7	26.5		
	11:14-11:44	25.4	29.9	31.9	27.2		
	11:44-12:14	25.9	30.4	32.2	27.6		
Gas Turbine Generator 4	10:13-10:43	24.8	30.4	31.6	26.7	27.0	34.0
	10:43-11:13	25.1	30.5	31.9	27.0		
	11:13-11:43	25.4	30.1	31.9	27.2		
	11:43-12:13	25.6	30.0	31.4	27.2		

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CLIENT NAME : Bangpa-in Cogeneration Co., Ltd. REFERENCE NO. : 224045_BIC_Heat/Nov
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 06/11/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210172, 3522210178
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{avg}	
HRSG 1	10:23-10:53	27.0	31.5	35.6	29.2	29.4	34.0
	10:53-11:23	26.4	30.7	33.9	28.3		
	11:23-11:53	28.0	34.3	38.4	30.7		
	11:53-12:23	27.1	31.9	36.8	29.5		
HRSG 2	10:03-10:33	26.7	29.0	33.3	28.3	28.1	34.0
	10:33-11:03	26.4	29.2	31.5	27.7		
	11:03-11:33	26.7	29.6	32.0	28.0		
	11:33-12:03	26.7	29.9	32.3	28.2		

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 06/11/2024 MODEL NO. : JT2011-E2A
MEASUREMENT LOCATION : Working area SERIAL NO. : 3522210180, 3522210177
SITE OPERATOR : Miss Salisa Ainree

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT _{out}	WBGT _{avg}	
HRSG 3	10:15-10:45	24.8	29.7	30.9	26.5	26.9	34.0
	10:45-11:15	24.8	29.6	31.0	26.5		
	11:15-11:45	25.4	30.6	31.5	27.1		
	11:45-12:15	25.8	30.8	32.5	27.6		
HRSG 4	10:17-10:47	24.1	29.2	30.3	25.9	26.5	34.0
	10:47-11:17	24.4	29.4	30.8	26.2		
	11:17-11:47	24.9	30.1	31.7	26.8		
	11:47-12:17	24.9	30.4	32.3	26.9		

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