

ภาคผนวก ง

หนังสือรับรองผลการตรวจวัดและวิเคราะห์

ภาคผนวก ง.1

ใบรับรองผลการตรวจวิเคราะห์
คุณภาพอากาศในบรรยากาศ



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REFERENCE NO.	: REN (Oper)-224046-Cert Amb/TSP-Jun24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/06/2024
RECEIVED DATE	: 01/07/2024	ANALYTICAL DATE	: 01-03/07/2024
REPORT DATE	: 05/07/2024	SAMPLE CONDITION	: Normal
STATION DESCRIPTION	1. Santi Silaram Temple 2. Banna Klang School 3. Nong Bon Temple 4. Nong Takai Temple		

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
TSP (24 hr.)	20-21/06/2024	mg/m ³	0.073	0.049	0.043	0.041	0.330	High Volume
	21-22/06/2024	mg/m ³	0.137	0.059	0.039	0.056		Air Sampler/
	22-23/06/2024	mg/m ³	0.043	0.043	0.022	0.020		Gravimetric Method
	23-24/06/2024	mg/m ³	0.030	0.038	0.018	0.017		
	24-25/06/2024	mg/m ³	0.033	0.035	0.021	0.023		
	25-26/06/2024	mg/m ³	0.048	0.013	0.012	0.022		
	26-27/06/2024	mg/m ³	0.032	0.021	0.018	0.032		

Phatchara Samanchan
(Miss Phatchara Samanchan)

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.



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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REFERENCE NO.	: REN (Oper)-224046-Cert Amb/PM-10-Jun24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/06/2024
RECEIVED DATE	: 01/07/2024	ANALYTICAL DATE	: 01-03/07/2024
REPORT DATE	: 05/07/2024	SAMPLE CONDITION	: Normal
STATION DESCRIPTION	1. Santi Silaram Temple 2. Banna Klang School 3. Nong Bon Temple 4. Nong Takai Temple		

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
PM-10 (24 hr.)	20-21/06/2024	mg/m ³	0.032	0.047	0.017	0.020	0.120	High Volume
	21-22/06/2024	mg/m ³	0.054	0.046	0.017	0.025		Air Sampler/
	22-23/06/2024	mg/m ³	0.027	0.032	0.014	0.018		(Hi-Vol PM-10
	23-24/06/2024	mg/m ³	0.023	0.028	0.013	0.016		Size Selective Inlet)/
	24-25/06/2024	mg/m ³	0.020	0.029	0.011	0.015		Gravimetric Method
	25-26/06/2024	mg/m ³	0.015	0.008	0.008	0.013		
	26-27/06/2024	mg/m ³	0.018	0.015	0.013	0.019		

Phatchara Samanchan
(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

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

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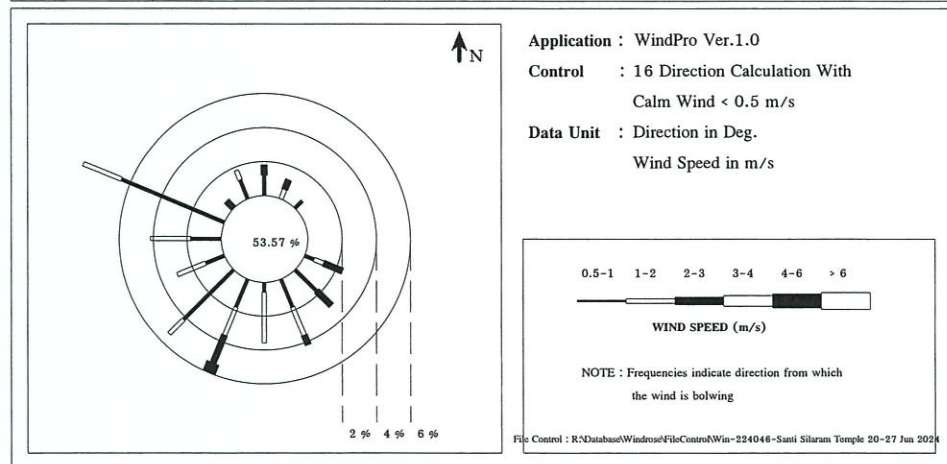
3. * Notification of the National Environment Board, No.24, B.E.2547.



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple Monitor period : 20-27 Jun 2024
Wind Speed Model : Novalynx WS-25 Serial No : A5091
Wind Direction Model : Novalynx WS-25 Serial No : A5091

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	0.0119	0.0000	0.0060	0.0000	0.0000	0.0000	0.0179
NNE	0.0000	0.0060	0.0060	0.0000	0.0000	0.0000	0.0119
NE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
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	0.0060	0.0060	0.0119	0.0000	0.0000	0.0000	0.0238
SE	0.0179	0.0000	0.0119	0.0000	0.0000	0.0000	0.0298
SSE	0.0179	0.0179	0.0060	0.0000	0.0000	0.0000	0.0417
S	0.0060	0.0298	0.0000	0.0000	0.0000	0.0000	0.0357
SSW	0.0179	0.0179	0.0179	0.0000	0.0060	0.0000	0.0595
SW	0.0417	0.0119	0.0000	0.0000	0.0000	0.0000	0.0536
WSW	0.0119	0.0179	0.0000	0.0000	0.0000	0.0000	0.0298
W	0.0179	0.0238	0.0000	0.0000	0.0000	0.0000	0.0417
WNW	0.0655	0.0238	0.0000	0.0000	0.0000	0.0000	0.0893
NW	0.0000	0.0000	0.0060	0.0000	0.0000	0.0000	0.0060
NNW	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
CALM	0.5357						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

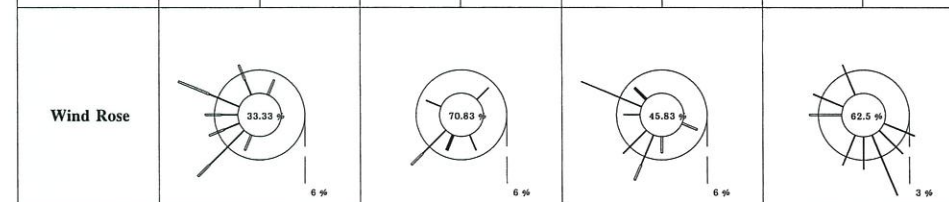
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple Monitor period : 20-27 Jun 2024
Wind Speed Model : Novalynx WS-25 Serial No : A5091
Wind Direction Model : Novalynx WS-25 Serial No : A5091

Time	20-21 Jun 2024		21-22 Jun 2024		22-23 Jun 2024		23-24 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
15:00 - 16:00	0.9	W	0.8	SW	0.0	W	0.4	NNE
16:00 - 17:00	1.3	NNW	1.1	SW	0.6	WNW	0.7	SE
17:00 - 18:00	0.8	SW	0.2	WSW	0.5	WNW	0.5	SSE
18:00 - 19:00	0.8	WNW	0.0	W	0.0	NE	0.7	SSE
19:00 - 20:00	0.2	WNW	0.8	SSE	1.2	SSW	0.0	W
20:00 - 21:00	0.2	W	0.0	WSW	1.2	ESE	0.0	E
21:00 - 22:00	0.3	WNW	0.0	S	0.1	S	0.7	ESE
22:00 - 23:00	0.4	WNW	0.4	SSE	0.7	SSW	0.2	N
23:00 - 24:00	0.2	SW	0.0	NNW	0.9	W	0.0	SW
00:00 - 01:00	1.3	WNW	0.4	WSW	1.1	S	0.9	SSW
01:00 - 02:00	1.0	WSW	0.9	SW	0.1	N	0.3	SSE
02:00 - 03:00	0.5	SW	0.4	S	0.3	SSE	0.1	NW
03:00 - 04:00	1.0	SW	0.2	NNE	0.0	S	0.0	NW
04:00 - 05:00	0.1	WNW	0.6	WNW	0.0	W	0.0	SE
05:00 - 06:00	0.6	SW	0.7	NE	0.7	WNW	0.0	NNW
06:00 - 07:00	1.2	WNW	0.3	N	0.8	SSW	0.3	WSW
07:00 - 08:00	1.5	SSW	0.2	WSW	0.1	NNE	0.6	NNW
08:00 - 09:00	0.4	SSW	0.0	WNW	0.0	SW	0.0	NE
09:00 - 10:00	1.7	NNE	0.3	NW	0.5	SW	0.0	SW
10:00 - 11:00	0.7	WNW	0.3	W	0.0	SW	0.9	WNW
11:00 - 12:00	0.7	NNW	0.0	E	0.1	WSW	0.0	WNW
12:00 - 13:00	1.1	W	2.0	SSW	2.0	NW	0.2	N
13:00 - 14:00	0.3	W	0.0	NW	0.7	WNW	1.6	W
14:00 - 15:00	0.5	WSW	0.2	W	0.5	SW	0.6	S



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple

Monitor period : 20-27 Jun 2024

Wind Speed Model : Novalynx WS-25

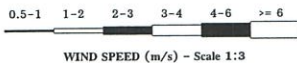
Serial No : A5091

Wind Direction Model : Novalynx WS-25

Serial No : A5091

Time	24-25 Jun 2024		25-26 Jun 2024		26-27 Jun 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
15:00 - 16:00	0.6	N	0.2	SE	0.4	SSE	
16:00 - 17:00	0.9	SE	0.0	NNE	0.3	SE	
17:00 - 18:00	0.2	SSE	2.0	SE	0.0	SW	
18:00 - 19:00	0.0	SSW	5.0	SSW	0.0	S	
19:00 - 20:00	0.2	SSW	1.4	S	0.0	NW	
20:00 - 21:00	0.1	SW	0.0	SW	1.3	SSE	
21:00 - 22:00	1.2	S	0.0	SW	0.0	S	
22:00 - 23:00	0.3	NE	1.3	W	0.3	SSW	
23:00 - 24:00	0.4	NW	0.0	SW	2.1	ESE	
00:00 - 01:00	0.2	NW	1.0	SSW	1.8	S	
01:00 - 02:00	0.3	NE	0.6	WNW	0.1	NNW	
02:00 - 03:00	1.4	WSW	0.0	NNW	0.8	WNW	
03:00 - 04:00	0.4	SSW	0.0	N	0.0	NW	
04:00 - 05:00	0.8	N	1.2	W	0.0	NW	
05:00 - 06:00	1.4	SSE	0.0	SSW	0.3	SSE	
06:00 - 07:00	1.0	WNW	1.1	WNW	2.1	N	
07:00 - 08:00	0.9	SE	2.1	SSW	2.3	SE	
08:00 - 09:00	0.0	SSW	2.6	SSE	2.6	SSW	
09:00 - 10:00	0.2	WNW	2.8	NNE	0.0	WSW	
10:00 - 11:00	0.2	S	2.5	ESE	0.0	NNE	
11:00 - 12:00	0.6	WNW	1.2	S	0.0	NE	
12:00 - 13:00	0.8	W	0.0	NNE	1.2	SSE	
13:00 - 14:00	0.2	SW	0.0	ESE	0.0	NE	
14:00 - 15:00	0.0	SSE	0.6	WSW	1.1	WSW	

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-224046-Santi Silaram Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 20-27 Jun 2024

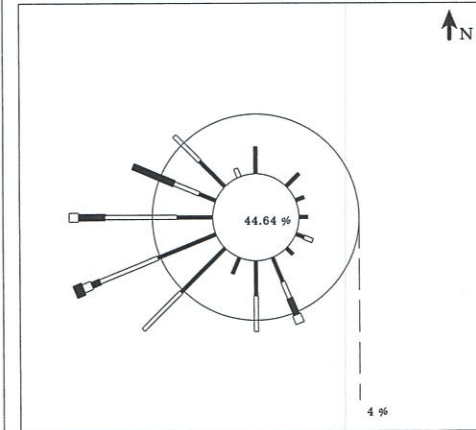
Wind Speed Model : Novalynx WS-25

Serial No : A5084

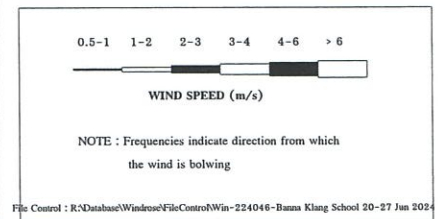
Wind Direction Model : Novalynx WS-25

Serial No : A5084

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	0.0179	0.0000	0.0000	0.0000	0.0000	0.0000	0.0179
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
ENE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
E	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
ESE	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
SSE	0.0179	0.0119	0.0119	0.0060	0.0000	0.0000	0.0476
S	0.0238	0.0238	0.0000	0.0000	0.0000	0.0000	0.0476
SSW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
SW	0.0417	0.0357	0.0000	0.0000	0.0000	0.0000	0.0774
WSW	0.0417	0.0417	0.0060	0.0060	0.0000	0.0000	0.1012
W	0.0238	0.0476	0.0179	0.0060	0.0000	0.0000	0.0952
WNW	0.0119	0.0179	0.0298	0.0000	0.0000	0.0000	0.0595
NW	0.0238	0.0238	0.0000	0.0000	0.0000	0.0000	0.0476
NNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
CALM	0.4464						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With
Calm Wind < 0.5 m/sData Unit : Direction in Deg.
Wind Speed in m/sNOTE : Frequencies indicate direction from which
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224046-Banna Klang School 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 20-27 Jun 2024

Wind Speed Model : Novalynx WS-25

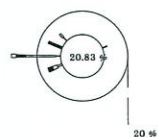
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Wind Direction Model : Novalynx WS-25

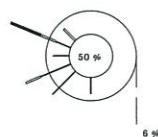
Serial No : A5084

Time	20-21 Jun 2024		21-22 Jun 2024		22-23 Jun 2024		23-24 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	2.4	W	2.1	WNW	0.1	NW	2.6	W
17:00 - 18:00	1.3	W	1.2	WSW	0.1	NNE	2.0	SSE
18:00 - 19:00	1.2	W	0.7	SW	0.7	E	0.2	E
19:00 - 20:00	1.8	WSW	0.6	W	1.0	SSE	0.1	ENE
20:00 - 21:00	1.0	W	0.9	WSW	0.2	SSE	0.0	NE
21:00 - 22:00	3.3	WSW	0.8	WSW	0.0	SW	0.0	NNE
22:00 - 23:00	0.3	NW	0.1	WNW	0.0	NW	0.3	ENE
23:00 - 24:00	2.2	WNW	0.1	WNW	0.2	SSW	0.6	SE
00:00 - 01:00	2.3	W	0.1	WNW	0.1	SSW	0.4	SSE
01:00 - 02:00	3.2	W	0.1	SSE	0.1	NE	0.8	SSE
02:00 - 03:00	1.0	W	0.1	SSE	0.1	ENE	0.1	SW
03:00 - 04:00	1.3	NW	0.1	N	0.1	ENE	0.9	NW
04:00 - 05:00	0.8	W	0.6	S	0.1	SSE	0.3	SE
05:00 - 06:00	1.8	W	0.9	SW	0.1	SSE	0.7	W
06:00 - 07:00	2.9	WNW	0.0	NNW	0.1	NE	0.0	NE
07:00 - 08:00	0.8	NW	0.4	WNW	0.4	W	0.3	SW
08:00 - 09:00	2.0	WNW	2.9	WNW	1.4	WNW	1.0	SW
09:00 - 10:00	0.1	WNW	1.1	NW	1.4	NW	0.0	SW
10:00 - 11:00	0.8	ENE	0.8	WNW	0.1	NNW	0.4	WNW
11:00 - 12:00	0.4	NNW	0.0	W	0.1	NW	0.5	WNW
12:00 - 13:00	0.1	NNE	0.0	NNW	0.0	NE	0.1	S
13:00 - 14:00	0.4	NW	1.0	WNW	0.1	N	0.0	ESE
14:00 - 15:00	5.4	WSW	0.0	NNW	0.0	NE	0.7	SSE
15:00 - 16:00	1.5	W	0.0	NNW	2.1	SSE	1.2	S

Wind Rose



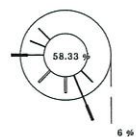
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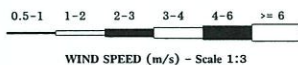
6 %



3 %



6 %



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 20-27 Jun 2024

Wind Speed Model : Novalynx WS-25

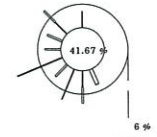
Serial No : A5084

Wind Direction Model : Novalynx WS-25

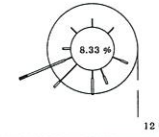
Serial No : A5084

Time	24-25 Jun 2024		25-26 Jun 2024		26-27 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	1.7	S	0.4	SSW	0.0	WSW
17:00 - 18:00	0.0	S	1.6	S	0.0	SW
18:00 - 19:00	1.1	SW	1.4	WSW	0.5	SW
19:00 - 20:00	0.7	WSW	0.6	NE	0.4	W
20:00 - 21:00	0.0	SW	0.5	SW	1.2	SW
21:00 - 22:00	0.5	WSW	0.7	S	0.0	SW
22:00 - 23:00	0.3	SW	1.2	WSW	0.0	SW
23:00 - 24:00	0.4	W	0.6	N	0.4	SW
00:00 - 01:00	0.0	SSW	0.8	SSE	0.0	SSW
01:00 - 02:00	0.8	SSW	1.1	SSE	0.5	WSW
02:00 - 03:00	0.0	SSW	1.6	S	0.6	W
03:00 - 04:00	0.2	S	1.2	ESE	0.0	SSW
04:00 - 05:00	0.9	S	2.4	WSW	0.2	SW
05:00 - 06:00	0.5	WSW	1.4	WSW	0.5	SW
06:00 - 07:00	0.0	S	0.7	SW	0.0	SW
07:00 - 08:00	0.8	NW	0.9	SW	0.1	WNW
08:00 - 09:00	0.7	SSW	0.5	WSW	1.2	NNW
09:00 - 10:00	1.2	WNW	0.0	SW	0.6	N
10:00 - 11:00	1.4	NW	1.0	SW	1.1	SW
11:00 - 12:00	0.7	N	0.6	ESE	0.1	S
12:00 - 13:00	0.0	WSW	0.9	NW	0.5	NE
13:00 - 14:00	1.2	W	1.0	WSW	0.1	E
14:00 - 15:00	3.2	SSE	1.6	W	1.2	SW
15:00 - 16:00	0.0	S	1.1	WSW	0.5	S

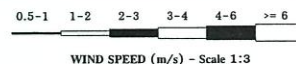
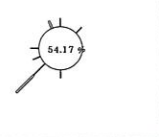
Wind Rose



6 %



12 %



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple Monitor period : 20-27 Jun 2024

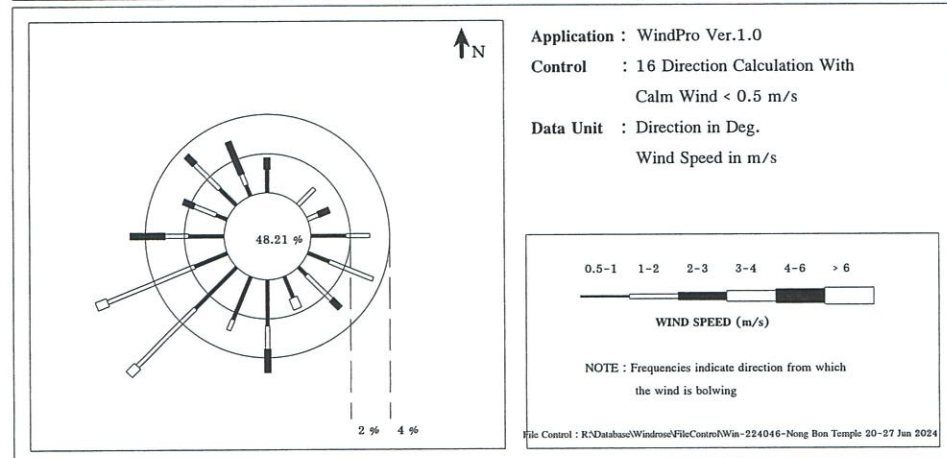
Wind Speed Model : Novalynx WS-25

Serial No : A4905

Wind Direction Model : Novalynx WS-25

Serial No : A4905

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	0.0000	0.0060	0.0000	0.0000	0.0000	0.0179
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
ENE	0.0000	0.0060	0.0060	0.0000	0.0000	0.0000	0.0119
E	0.0179	0.0119	0.0000	0.0000	0.0000	0.0000	0.0298
ESE	0.0119	0.0238	0.0000	0.0000	0.0000	0.0000	0.0357
SE	0.0060	0.0179	0.0060	0.0000	0.0000	0.0000	0.0298
SSE	0.0119	0.0000	0.0000	0.0060	0.0000	0.0000	0.0179
S	0.0238	0.0119	0.0119	0.0000	0.0000	0.0000	0.0476
SSW	0.0238	0.0060	0.0000	0.0000	0.0000	0.0000	0.0298
SW	0.0298	0.0417	0.0000	0.0060	0.0000	0.0000	0.0774
WSW	0.0179	0.0476	0.0000	0.0060	0.0000	0.0000	0.0714
W	0.0179	0.0119	0.0179	0.0000	0.0000	0.0000	0.0476
WNW	0.0060	0.0119	0.0060	0.0000	0.0000	0.0000	0.0238
NW	0.0119	0.0179	0.0060	0.0000	0.0000	0.0000	0.0357
NNW	0.0060	0.0060	0.0179	0.0000	0.0000	0.0000	0.0298
CALM	0.4821						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple

Monitor period : 20-27 Jun 2024

Wind Speed Model : Novalynx WS-25

Serial No : A4905

Wind Direction Model : Novalynx WS-25

Serial No : A4905

Time	20-21 Jun 2024		21-22 Jun 2024		22-23 Jun 2024		23-24 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
18:00 - 19:00	0.0	NW	1.2	ESE	0.2	ENE	1.1	E
19:00 - 20:00	0.6	NNW	0.9	ESE	0.8	E	0.0	N
20:00 - 21:00	1.0	WNW	1.2	ESE	0.7	ESE	0.4	ENE
21:00 - 22:00	0.1	S	0.0	ESE	0.0	ESE	1.3	SE
22:00 - 23:00	0.1	SW	0.4	ESE	1.2	ESE	0.0	WSW
23:00 - 24:00	0.4	NW	1.5	W	0.6	WNW	0.0	WSW
00:00 - 01:00	0.0	NNW	1.1	WNW	1.5	SW	0.5	S
01:00 - 02:00	1.6	NW	0.0	SW	1.2	NE	0.3	SW
02:00 - 03:00	1.1	NW	0.0	W	0.6	N	0.1	SW
03:00 - 04:00	0.6	W	0.5	SSE	0.0	SE	1.1	SW
04:00 - 05:00	1.1	WSW	1.4	E	2.1	WNW	1.0	NE
05:00 - 06:00	0.0	NW	1.3	W	0.3	WSW	0.0	WSW
06:00 - 07:00	0.0	NW	1.3	WSW	0.0	WSW	1.2	SW
07:00 - 08:00	0.8	NW	1.7	WSW	0.2	W	0.6	SW
08:00 - 09:00	1.0	WSW	0.2	S	0.0	NW	1.5	SW
09:00 - 10:00	1.5	S	0.0	WSW	0.2	SW	0.0	NNW
10:00 - 11:00	0.8	SE	1.3	NNW	0.0	WNW	0.5	W
11:00 - 12:00	2.8	N	0.2	W	2.5	NNW	2.0	NW
12:00 - 13:00	0.6	W	0.0	WNW	0.0	NW	0.0	W
13:00 - 14:00	0.6	NW	1.9	SW	2.9	NNW	1.6	NW
14:00 - 15:00	3.1	SSE	2.4	W	0.2	N	0.6	E
15:00 - 16:00	2.2	SE	0.0	SSW	0.0	E	0.4	S
16:00 - 17:00	1.8	ESE	0.3	NW	0.5	SSE	0.0	ESE
17:00 - 18:00	0.3	ESE	0.0	NNW	1.1	SSW	0.0	SSE



File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Bon Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple

Monitor period : 20-27 Jun 2024

Wind Speed Model : Novalynx WS-25

Serial No : A4905

Wind Direction Model : Novalynx WS-25

Serial No : A4905

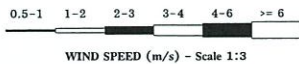
Time	24-25 Jun 2024		25-26 Jun 2024		26-27 Jun 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
18:00 - 19:00	0.2	WSW	0.4	SW	0.6	S	
19:00 - 20:00	0.4	SSW	0.0	SSW	0.1	SSE	
20:00 - 21:00	1.0	WSW	0.0	WSW	0.0	SW	
21:00 - 22:00	0.0	SSW	0.5	WSW	0.1	SSW	
22:00 - 23:00	0.5	SW	0.5	WSW	0.5	E	
23:00 - 24:00	0.2	WSW	0.0	W	0.2	SSE	
00:00 - 01:00	0.6	SW	1.1	WSW	0.9	SSW	
01:00 - 02:00	0.2	SSW	0.3	SSW	0.2	SSW	
02:00 - 03:00	0.4	SW	0.5	N	0.6	SW	
03:00 - 04:00	0.0	SW	0.1	SSW	0.0	SSW	
04:00 - 05:00	0.1	WSW	1.6	SW	1.2	SW	
05:00 - 06:00	0.1	SSE	0.4	SSW	0.0	SSE	
06:00 - 07:00	0.0	SW	0.7	S	2.1	NNW	
07:00 - 08:00	0.4	SW	0.8	SSW	0.6	S	
08:00 - 09:00	2.8	S	0.0	S	0.0	ESE	
09:00 - 10:00	0.0	NNW	0.3	SE	0.7	SSW	
10:00 - 11:00	0.1	WNW	0.0	SE	1.4	S	
11:00 - 12:00	3.7	WSW	0.4	E	1.8	ENE	
12:00 - 13:00	2.9	W	1.1	WSW	2.4	ENE	
13:00 - 14:00	0.2	SSW	2.0	S	1.9	SE	
14:00 - 15:00	0.0	SW	3.8	SW	0.8	SSW	
15:00 - 16:00	2.5	W	0.0	SE	0.7	SW	
16:00 - 17:00	0.1	E	1.2	SE	0.9	WSW	
17:00 - 18:00	1.1	WSW	0.2	S	0.2	WNW	

Wind Rose

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File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Bon Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple

Monitor period : 20-27 Jun 2024

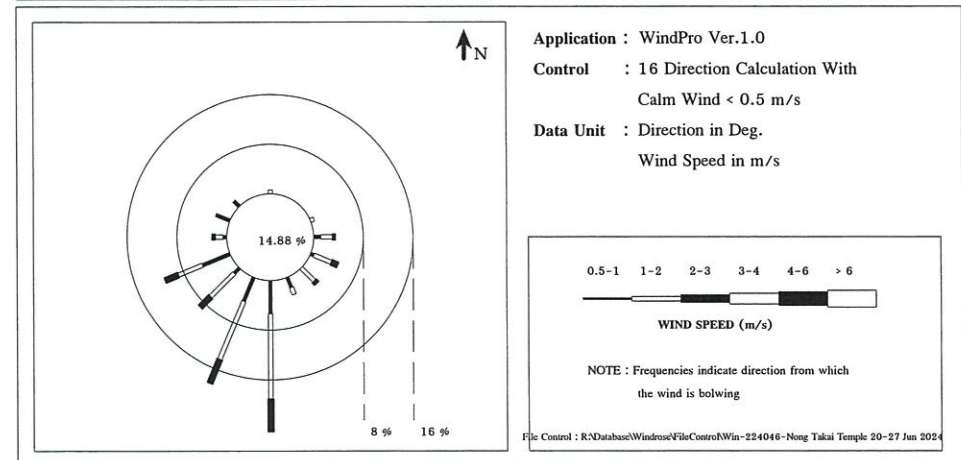
Wind Speed Model : Novalynx WS-25

Serial No : A4904

Wind Direction Model : Novalynx WS-25

Serial No : A4904

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	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
E	0.0119	0.0179	0.0060	0.0000	0.0000	0.0000	0.0357
ESE	0.0060	0.0298	0.0119	0.0000	0.0000	0.0000	0.0476
SE	0.0000	0.0298	0.0060	0.0000	0.0000	0.0000	0.0357
SSE	0.0179	0.0119	0.0000	0.0000	0.0000	0.0000	0.0298
S	0.0536	0.1369	0.0536	0.0000	0.0000	0.0000	0.2440
SSW	0.0417	0.1012	0.0417	0.0000	0.0000	0.0000	0.1845
SW	0.0119	0.0536	0.0238	0.0000	0.0000	0.0000	0.0893
WSW	0.0476	0.0417	0.0238	0.0000	0.0000	0.0000	0.1131
W	0.0060	0.0119	0.0060	0.0000	0.0000	0.0000	0.0238
WNW	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0238
NW	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.1488						



File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Takai Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

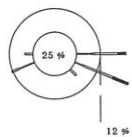


Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple	Monitor period : 20-27 Jun 2024
Wind Speed Model : Novalynx WS-25	Serial No : A4904
Wind Direction Model : Novalynx WS-25	Serial No : A4904

Time	20-21 Jun 2024		21-22 Jun 2024		22-23 Jun 2024		23-24 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
17:00 - 18:00	0.1	SE	2.2	WSW	0.6	SSW	0.9	S
18:00 - 19:00	1.4	SE	1.3	S	1.5	SSW	1.6	SSW
19:00 - 20:00	2.3	ESE	0.3	SW	1.9	SE	1.8	S
20:00 - 21:00	0.7	ESE	0.2	SW	1.1	SE	0.7	S
21:00 - 22:00	0.2	ESE	1.2	SSW	0.4	SW	1.2	S
22:00 - 23:00	2.3	ESE	0.9	SSW	2.3	SSW	0.4	S
23:00 - 24:00	1.8	ESE	0.1	SSW	0.5	SSW	1.2	S
00:00 - 01:00	0.3	E	0.7	S	2.1	S	0.4	S
01:00 - 02:00	1.7	E	2.0	S	1.5	S	1.6	S
02:00 - 03:00	1.0	E	1.6	S	1.7	S	0.5	S
03:00 - 04:00	0.4	E	1.1	S	1.7	S	1.4	S
04:00 - 05:00	0.5	E	0.1	S	0.2	S	1.8	S
05:00 - 06:00	0.7	E	1.6	SSE	0.3	S	2.2	S
06:00 - 07:00	1.1	E	0.5	SSE	2.0	S	1.8	S
07:00 - 08:00	2.0	E	0.6	SSE	1.5	S	2.1	SSW
08:00 - 09:00	1.1	ESE	1.6	SW	1.6	SSW	1.9	SW
09:00 - 10:00	1.8	ESE	0.6	SSW	1.7	SW	0.5	SW
10:00 - 11:00	1.9	ESE	1.0	N	0.7	WSW	0.4	WSW
11:00 - 12:00	1.4	WSW	1.9	SW	0.3	W	0.6	SSW
12:00 - 13:00	0.1	NW	1.4	WSW	0.9	NW	0.4	SSW
13:00 - 14:00	1.0	W	1.8	W	0.5	NW	0.8	S
14:00 - 15:00	0.6	WSW	0.7	SW	1.6	ESE	0.6	S
15:00 - 16:00	0.2	SSW	1.0	SSW	2.1	W	1.1	SE
16:00 - 17:00	0.9	WSW	0.9	SSE	1.0	SSW	1.6	SE

Wind Rose



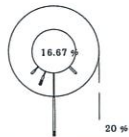
12 %



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File Control :R:\Database\Windrose\FileControl\Win-224046-Nong Takai Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

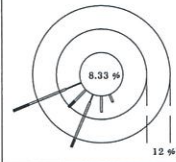


Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple	Monitor period : 20-27 Jun 2024
Wind Speed Model : Novalynx WS-25	Serial No : A4904
Wind Direction Model : Novalynx WS-25	Serial No : A4904

Time	24-25 Jun 2024		25-26 Jun 2024		26-27 Jun 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
17:00 - 18:00	0.9	WSW	0.1	SE	1.9	SSW
18:00 - 19:00	1.4	WSW	0.5	WSW	0.7	S
19:00 - 20:00	1.8	SW	2.2	SW	2.0	S
20:00 - 21:00	0.4	S	1.6	SW	1.2	SSW
21:00 - 22:00	2.0	SW	2.2	WSW	1.3	S
22:00 - 23:00	1.5	SSE	0.5	WSW	2.0	S
23:00 - 24:00	1.3	S	1.3	SW	1.4	S
00:00 - 01:00	1.9	S	2.0	SSW	0.9	S
01:00 - 02:00	0.7	SSW	1.6	SSW	0.3	S
02:00 - 03:00	1.0	SSW	2.3	S	2.3	SSW
03:00 - 04:00	1.1	SSW	1.5	S	1.1	S
04:00 - 05:00	1.2	WSW	2.0	SSW	0.6	SSW
05:00 - 06:00	1.5	SSW	1.9	SSW	2.2	S
06:00 - 07:00	1.8	SSW	2.3	SW	1.9	S
07:00 - 08:00	1.9	SSW	1.9	SW	0.4	SSW
08:00 - 09:00	1.4	WSW	2.0	S	0.9	S
09:00 - 10:00	0.5	WSW	0.1	SSW	2.3	SW
10:00 - 11:00	2.0	WSW	0.9	WNW	1.8	S
11:00 - 12:00	2.3	SSW	2.1	SE	2.2	SSW
12:00 - 13:00	1.8	WSW	0.7	WSW	1.6	S
13:00 - 14:00	0.1	SW	0.9	WNW	1.1	ENE
14:00 - 15:00	2.1	WSW	0.7	WNW	0.4	WSW
15:00 - 16:00	1.9	WSW	1.0	SSW	0.7	WNW
16:00 - 17:00	1.1	SW	1.4	SSW	0.9	W

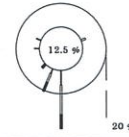
Wind Rose



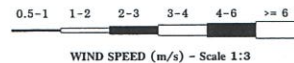
12 % 24 %



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File Control :R:\Database\Windrose\FileControl\Win-224046-Nong Takai Temple 20-27 Jun 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-REN Operation

Location : Santi Silaram Temple	Monitor Period : 20-27 Jun 2024
Analyzer Model : API 200A	Station No : Shelter 18
Serial No : 1523	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
15:00 - 16:00	0.0050	0.0063	0.0065	0.0051	0.0050	0.0052	0.0060
16:00 - 17:00	0.0053	0.0061	0.0063	0.0063	0.0064	0.0056	0.0059
17:00 - 18:00	0.0066	0.0053	0.0065	0.0063	0.0060	0.0050	0.0053
18:00 - 19:00	0.0053	0.0062	0.0051	0.0066	0.0051	0.0052	0.0064
19:00 - 20:00	0.0058	0.0058	0.0062	0.0051	0.0058	0.0059	0.0059
20:00 - 21:00	0.0062	0.0051	0.0057	0.0057	0.0068	0.0068	0.0056
21:00 - 22:00	0.0046	0.0067	0.0048	0.0052	0.0053	0.0065	0.0056
22:00 - 23:00	0.0056	0.0050	0.0052	0.0060	0.0059	0.0061	0.0065
23:00 - 00:00	0.0051	0.0054	0.0066	0.0062	0.0065	0.0063	0.0056
00:00 - 01:00	0.0060	0.0062	0.0070	0.0055	0.0053	0.0052	0.0065
01:00 - 02:00	0.0047	0.0059	0.0048	0.0057	0.0062	0.0047	0.0050
02:00 - 03:00	0.0056	0.0057	0.0066	0.0056	0.0064	0.0046	0.0052
03:00 - 04:00	0.0049	0.0046	0.0054	0.0051	0.0061	0.0049	0.0051
04:00 - 05:00	0.0046	0.0051	0.0063	0.0055	0.0059	0.0069	0.0059
05:00 - 06:00	0.0050	0.0053	0.0063	0.0045	0.0053	0.0059	0.0052
06:00 - 07:00	0.0069	0.0056	0.0045	0.0051	0.0066	0.0045	0.0062
07:00 - 08:00	0.0058	0.0055	0.0061	0.0060	0.0046	0.0059	0.0058
08:00 - 09:00	0.0053	0.0059	0.0068	0.0062	0.0067	0.0053	0.0047
09:00 - 10:00	0.0060	0.0060	0.0057	0.0054	0.0059	0.0060	0.0061
10:00 - 11:00	0.0052	0.0063	0.0050	0.0051	0.0065	0.0064	0.0065
11:00 - 12:00	0.0057	0.0047	0.0049	0.0052	0.0066	0.0054	0.0060
12:00 - 13:00	0.0050	0.0053	0.0062	0.0053	0.0053	0.0052	0.0059
13:00 - 14:00	0.0065	0.0061	0.0051	0.0065	0.0058	0.0057	0.0057
14:00 - 15:00	0.0053	0.0054	0.0061	0.0069	0.0057	0.0066	0.0060
Average-24Hr*	0.0055	0.0056	0.0058	0.0057	0.0059	0.0057	0.0058
Max-1Hr	0.0069	0.0067	0.0070	0.0069	0.0068	0.0069	0.0065
Min-1Hr	0.0046	0.0046	0.0045	0.0045	0.0046	0.0045	0.0047
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-REN Operation

Location : Banna Klang School	Monitor Period : 20-27 Jun 2024
Analyzer Model : API 200A	Station No : Shelter 16
Serial No : 2384	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
16:00 - 17:00	0.0073	0.0058	0.0063	0.0061	0.0064	0.0070	0.0074
17:00 - 18:00	0.0064	0.0051	0.0072	0.0072	0.0081	0.0080	0.0062
18:00 - 19:00	0.0066	0.0054	0.0071	0.0087	0.0051	0.0064	0.0075
19:00 - 20:00	0.0076	0.0069	0.0065	0.0058	0.0057	0.0073	0.0051
20:00 - 21:00	0.0078	0.0063	0.0082	0.0071	0.0067	0.0053	0.0055
21:00 - 22:00	0.0073	0.0075	0.0070	0.0072	0.0074	0.0069	0.0055
22:00 - 23:00	0.0072	0.0068	0.0067	0.0052	0.0050	0.0063	0.0075
23:00 - 00:00	0.0069	0.0064	0.0073	0.0069	0.0076	0.0059	0.0064
00:00 - 01:00	0.0083	0.0079	0.0066	0.0069	0.0062	0.0069	0.0059
01:00 - 02:00	0.0046	0.0067	0.0081	0.0078	0.0079	0.0064	0.0052
02:00 - 03:00	0.0067	0.0066	0.0057	0.0061	0.0061	0.0085	0.0058
03:00 - 04:00	0.0061	0.0056	0.0070	0.0068	0.0075	0.0067	0.0066
04:00 - 05:00	0.0063	0.0052	0.0069	0.0049	0.0078	0.0056	0.0074
05:00 - 06:00	0.0059	0.0061	0.0074	0.0068	0.0068	0.0063	0.0069
06:00 - 07:00	0.0059	0.0071	0.0050	0.0062	0.0086	0.0055	0.0061
07:00 - 08:00	0.0076	0.0059	0.0058	0.0073	0.0069	0.0051	0.0061
08:00 - 09:00	0.0055	0.0074	0.0054	0.0050	0.0061	0.0054	0.0058
09:00 - 10:00	0.0084	0.0060	0.0061	0.0066	0.0083	0.0048	0.0060
10:00 - 11:00	0.0077	0.0065	0.0080	0.0064	0.0066	0.0067	0.0060
11:00 - 12:00	0.0063	0.0065	0.0052	0.0052	0.0063	0.0071	0.0058
12:00 - 13:00	0.0065	0.0051	0.0065	0.0086	0.0067	0.0058	0.0073
13:00 - 14:00	0.0065	0.0053	0.0078	0.0063	0.0076	0.0055	0.0069
14:00 - 15:00	0.0069	0.0065	0.0068	0.0071	0.0069	0.0076	0.0078
15:00 - 16:00	0.0068	0.0064	0.0056	0.0048	0.0052	0.0063	0.0076
Average-24Hr*	0.0068	0.0063	0.0067	0.0065	0.0068	0.0064	0.0064
Max-1Hr	0.0084	0.0079	0.0082	0.0087	0.0086	0.0085	0.0078
Min-1Hr	0.0046	0.0051	0.0050	0.0048	0.0050	0.0048	0.0051
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-REN Operation

Location : Nong Bon Temple Monitor Period : 20-27 Jun 2024
Analyzer Model : API 200AU Station No : Shelter 19
Serial No : 144 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
18:00 - 19:00	0.0099	0.0097	0.0120	0.0089	0.0109	0.0092	0.0098
19:00 - 20:00	0.0108	0.0112	0.0120	0.0098	0.0098	0.0091	0.0082
20:00 - 21:00	0.0079	0.0114	0.0107	0.0099	0.0098	0.0098	0.0095
21:00 - 22:00	0.0118	0.0098	0.0102	0.0095	0.0078	0.0108	0.0074
22:00 - 23:00	0.0101	0.0105	0.0096	0.0081	0.0096	0.0098	0.0087
23:00 - 00:00	0.0096	0.0098	0.0096	0.0088	0.0086	0.0064	0.0070
00:00 - 01:00	0.0079	0.0083	0.0089	0.0110	0.0083	0.0082	0.0090
01:00 - 02:00	0.0081	0.0075	0.0088	0.0105	0.0072	0.0093	0.0110
02:00 - 03:00	0.0100	0.0113	0.0089	0.0100	0.0097	0.0115	0.0081
03:00 - 04:00	0.0067	0.0097	0.0088	0.0081	0.0075	0.0111	0.0081
04:00 - 05:00	0.0118	0.0090	0.0086	0.0078	0.0098	0.0086	0.0106
05:00 - 06:00	0.0077	0.0104	0.0102	0.0114	0.0108	0.0100	0.0089
06:00 - 07:00	0.0104	0.0100	0.0100	0.0101	0.0083	0.0109	0.0108
07:00 - 08:00	0.0086	0.0106	0.0094	0.0121	0.0097	0.0070	0.0101
08:00 - 09:00	0.0108	0.0097	0.0109	0.0098	0.0086	0.0088	0.0089
09:00 - 10:00	0.0067	0.0104	0.0093	0.0113	0.0087	0.0069	0.0085
10:00 - 11:00	0.0098	0.0102	0.0087	0.0081	0.0119	0.0094	0.0105
11:00 - 12:00	0.0088	0.0096	0.0109	0.0083	0.0090	0.0110	0.0114
12:00 - 13:00	0.0115	0.0098	0.0096	0.0105	0.0099	0.0090	0.0120
13:00 - 14:00	0.0070	0.0077	0.0102	0.0082	0.0112	0.0077	0.0078
14:00 - 15:00	0.0079	0.0107	0.0072	0.0095	0.0088	0.0111	0.0109
15:00 - 16:00	0.0081	0.0102	0.0086	0.0083	0.0102	0.0091	0.0103
16:00 - 17:00	0.0081	0.0083	0.0092	0.0088	0.0080	0.0099	0.0104
17:00 - 18:00	0.0094	0.0105	0.0072	0.0115	0.0073	0.0082	0.0070
Average-24Hr*	0.0091	0.0098	0.0096	0.0096	0.0092	0.0093	0.0094
Max-1Hr	0.0118	0.0114	0.0120	0.0121	0.0119	0.0115	0.0120
Min-1Hr	0.0067	0.0075	0.0072	0.0078	0.0072	0.0064	0.0070
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 18:00-18:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-REN Operation

Location : Nong Takai Temple Monitor Period : 20-27 Jun 2024
Analyzer Model : API 200A Station No : Shelter 14
Serial No : 1645 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
17:00 - 18:00	0.0067	0.0074	0.0087	0.0068	0.0090	0.0076	0.0082
18:00 - 19:00	0.0058	0.0077	0.0089	0.0062	0.0101	0.0078	0.0077
19:00 - 20:00	0.0060	0.0045	0.0074	0.0099	0.0059	0.0057	0.0102
20:00 - 21:00	0.0075	0.0081	0.0088	0.0086	0.0082	0.0068	0.0070
21:00 - 22:00	0.0071	0.0084	0.0067	0.0044	0.0072	0.0085	0.0058
22:00 - 23:00	0.0063	0.0089	0.0058	0.0069	0.0066	0.0046	0.0093
23:00 - 00:00	0.0052	0.0050	0.0064	0.0066	0.0078	0.0049	0.0074
00:00 - 01:00	0.0052	0.0075	0.0073	0.0066	0.0091	0.0053	0.0091
01:00 - 02:00	0.0050	0.0081	0.0083	0.0064	0.0085	0.0098	0.0056
02:00 - 03:00	0.0094	0.0082	0.0043	0.0098	0.0088	0.0084	0.0075
03:00 - 04:00	0.0073	0.0062	0.0074	0.0037	0.0063	0.0097	0.0076
04:00 - 05:00	0.0081	0.0047	0.0077	0.0075	0.0066	0.0093	0.0080
05:00 - 06:00	0.0074	0.0078	0.0066	0.0067	0.0086	0.0076	0.0062
06:00 - 07:00	0.0076	0.0078	0.0072	0.0100	0.0063	0.0045	0.0081
07:00 - 08:00	0.0082	0.0039	0.0087	0.0071	0.0069	0.0080	0.0052
08:00 - 09:00	0.0099	0.0067	0.0060	0.0060	0.0069	0.0062	0.0077
09:00 - 10:00	0.0087	0.0089	0.0069	0.0053	0.0038	0.0089	0.0056
10:00 - 11:00	0.0061	0.0075	0.0079	0.0063	0.0060	0.0088	0.0070
11:00 - 12:00	0.0084	0.0086	0.0077	0.0090	0.0056	0.0049	0.0049
12:00 - 13:00	0.0082	0.0090	0.0070	0.0051	0.0074	0.0038	0.0065
13:00 - 14:00	0.0095	0.0043	0.0077	0.0041	0.0078	0.0053	0.0091
14:00 - 15:00	0.0079	0.0093	0.0096	0.0068	0.0083	0.0085	0.0099
15:00 - 16:00	0.0073	0.0051	0.0095	0.0072	0.0089	0.0041	0.0079
16:00 - 17:00	0.0043	0.0049	0.0055	0.0044	0.0041	0.0086	0.0051
Average-24Hr*	0.0072	0.0070	0.0074	0.0067	0.0073	0.0070	0.0074
Max-1Hr	0.0099	0.0093	0.0096	0.0100	0.0101	0.0098	0.0102
Min-1Hr	0.0043	0.0039	0.0043	0.0037	0.0038	0.0038	0.0049
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 17:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Santi Silaram Temple Monitor Period : 20-27 Jun 2024
Analyzer Model : Teledyne T100 Station No : Shelter 18
Serial No : 119 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
15:00 - 16:00	0.0071	0.0076	0.0065	0.0077	0.0072	0.0077	0.0076
16:00 - 17:00	0.0073	0.0067	0.0077	0.0066	0.0066	0.0073	0.0066
17:00 - 18:00	0.0073	0.0067	0.0072	0.0072	0.0076	0.0065	0.0078
18:00 - 19:00	0.0069	0.0066	0.0079	0.0066	0.0078	0.0071	0.0078
19:00 - 20:00	0.0075	0.0071	0.0072	0.0078	0.0065	0.0065	0.0070
20:00 - 21:00	0.0075	0.0074	0.0079	0.0072	0.0079	0.0077	0.0073
21:00 - 22:00	0.0068	0.0076	0.0066	0.0072	0.0074	0.0079	0.0074
22:00 - 23:00	0.0069	0.0069	0.0072	0.0070	0.0073	0.0071	0.0076
23:00 - 00:00	0.0077	0.0071	0.0065	0.0072	0.0068	0.0065	0.0065
00:00 - 01:00	0.0065	0.0074	0.0078	0.0067	0.0074	0.0066	0.0071
01:00 - 02:00	0.0072	0.0070	0.0065	0.0079	0.0075	0.0065	0.0070
02:00 - 03:00	0.0065	0.0065	0.0067	0.0076	0.0069	0.0073	0.0079
03:00 - 04:00	0.0079	0.0071	0.0066	0.0065	0.0070	0.0067	0.0078
04:00 - 05:00	0.0076	0.0073	0.0070	0.0065	0.0074	0.0067	0.0066
05:00 - 06:00	0.0069	0.0074	0.0076	0.0068	0.0068	0.0075	0.0076
06:00 - 07:00	0.0074	0.0065	0.0068	0.0078	0.0071	0.0067	0.0072
07:00 - 08:00	0.0070	0.0075	0.0075	0.0066	0.0074	0.0071	0.0075
08:00 - 09:00	0.0075	0.0068	0.0068	0.0071	0.0073	0.0074	0.0068
09:00 - 10:00	0.0067	0.0067	0.0077	0.0067	0.0069	0.0076	0.0074
10:00 - 11:00	0.0066	0.0066	0.0070	0.0067	0.0071	0.0074	0.0076
11:00 - 12:00	0.0065	0.0067	0.0071	0.0066	0.0067	0.0069	0.0071
12:00 - 13:00	0.0066	0.0071	0.0071	0.0076	0.0073	0.0069	0.0071
13:00 - 14:00	0.0069	0.0071	0.0066	0.0070	0.0075	0.0071	0.0074
14:00 - 15:00	0.0077	0.0070	0.0075	0.0068	0.0073	0.0073	0.0070
Average-24Hr*	0.0071	0.0070	0.0071	0.0071	0.0072	0.0071	0.0073
Max-1Hr	0.0079	0.0076	0.0079	0.0079	0.0079	0.0079	0.0079
Min-1Hr	0.0065	0.0065	0.0065	0.0065	0.0065	0.0065	0.0065
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Banna Klang School Monitor Period : 20-27 Jun 2024
Analyzer Model : Teledyne 100A Station No : Shelter 16
Serial No : 2009 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
16:00 - 17:00	0.0048	0.0063	0.0068	0.0066	0.0068	0.0067	0.0053
17:00 - 18:00	0.0065	0.0049	0.0049	0.0061	0.0057	0.0060	0.0061
18:00 - 19:00	0.0055	0.0060	0.0057	0.0048	0.0070	0.0053	0.0055
19:00 - 20:00	0.0052	0.0047	0.0065	0.0068	0.0067	0.0053	0.0056
20:00 - 21:00	0.0070	0.0059	0.0055	0.0058	0.0060	0.0058	0.0064
21:00 - 22:00	0.0049	0.0066	0.0064	0.0054	0.0062	0.0056	0.0070
22:00 - 23:00	0.0067	0.0055	0.0063	0.0050	0.0059	0.0057	0.0048
23:00 - 00:00	0.0065	0.0054	0.0060	0.0064	0.0048	0.0048	0.0063
00:00 - 01:00	0.0068	0.0054	0.0067	0.0070	0.0053	0.0064	0.0071
01:00 - 02:00	0.0069	0.0056	0.0065	0.0066	0.0052	0.0058	0.0051
02:00 - 03:00	0.0060	0.0059	0.0051	0.0067	0.0047	0.0055	0.0048
03:00 - 04:00	0.0054	0.0058	0.0053	0.0070	0.0059	0.0055	0.0062
04:00 - 05:00	0.0069	0.0051	0.0052	0.0068	0.0067	0.0053	0.0053
05:00 - 06:00	0.0050	0.0059	0.0069	0.0060	0.0060	0.0062	0.0068
06:00 - 07:00	0.0052	0.0056	0.0054	0.0049	0.0053	0.0067	0.0052
07:00 - 08:00	0.0066	0.0058	0.0064	0.0070	0.0063	0.0054	0.0051
08:00 - 09:00	0.0061	0.0062	0.0067	0.0063	0.0064	0.0067	0.0053
09:00 - 10:00	0.0060	0.0063	0.0049	0.0059	0.0058	0.0059	0.0059
10:00 - 11:00	0.0071	0.0071	0.0056	0.0067	0.0065	0.0052	0.0050
11:00 - 12:00	0.0057	0.0068	0.0059	0.0050	0.0063	0.0057	0.0054
12:00 - 13:00	0.0048	0.0059	0.0050	0.0049	0.0070	0.0057	0.0066
13:00 - 14:00	0.0062	0.0066	0.0063	0.0071	0.0070	0.0057	0.0066
14:00 - 15:00	0.0058	0.0058	0.0060	0.0061	0.0049	0.0058	0.0062
15:00 - 16:00	0.0049	0.0056	0.0053	0.0048	0.0063	0.0052	0.0061
Average-24Hr*	0.0059	0.0059	0.0059	0.0061	0.0060	0.0057	0.0058
Max-1Hr	0.0071	0.0071	0.0069	0.0071	0.0070	0.0067	0.0071
Min-1Hr	0.0048	0.0047	0.0049	0.0048	0.0047	0.0048	0.0048
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team





Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Nong Bon Temple	Monitor Period : 20-27 Jun 2024
Analyzer Model : API 100A	Station No : Shelter 19
Serial No : 376	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
18:00 - 19:00	0.0099	0.0103	0.0099	0.0096	0.0097	0.0101	0.0096
19:00 - 20:00	0.0098	0.0099	0.0100	0.0098	0.0097	0.0102	0.0102
20:00 - 21:00	0.0096	0.0097	0.0102	0.0098	0.0100	0.0100	0.0100
21:00 - 22:00	0.0099	0.0100	0.0102	0.0101	0.0097	0.0098	0.0097
22:00 - 23:00	0.0098	0.0096	0.0101	0.0102	0.0099	0.0099	0.0097
23:00 - 00:00	0.0102	0.0102	0.0103	0.0103	0.0098	0.0101	0.0097
00:00 - 01:00	0.0097	0.0103	0.0097	0.0099	0.0098	0.0096	0.0102
01:00 - 02:00	0.0102	0.0096	0.0100	0.0096	0.0096	0.0096	0.0098
02:00 - 03:00	0.0103	0.0103	0.0097	0.0101	0.0101	0.0103	0.0096
03:00 - 04:00	0.0099	0.0103	0.0101	0.0102	0.0098	0.0100	0.0099
04:00 - 05:00	0.0101	0.0102	0.0101	0.0097	0.0103	0.0096	0.0102
05:00 - 06:00	0.0099	0.0097	0.0103	0.0100	0.0101	0.0100	0.0098
06:00 - 07:00	0.0099	0.0102	0.0096	0.0099	0.0103	0.0097	0.0100
07:00 - 08:00	0.0101	0.0096	0.0097	0.0100	0.0096	0.0101	0.0098
08:00 - 09:00	0.0099	0.0102	0.0103	0.0096	0.0102	0.0096	0.0099
09:00 - 10:00	0.0097	0.0097	0.0096	0.0103	0.0100	0.0097	0.0099
10:00 - 11:00	0.0103	0.0099	0.0098	0.0101	0.0102	0.0096	0.0098
11:00 - 12:00	0.0101	0.0102	0.0098	0.0103	0.0097	0.0103	0.0097
12:00 - 13:00	0.0097	0.0096	0.0099	0.0099	0.0102	0.0101	0.0099
13:00 - 14:00	0.0103	0.0096	0.0102	0.0101	0.0099	0.0101	0.0096
14:00 - 15:00	0.0096	0.0101	0.0102	0.0102	0.0099	0.0101	0.0096
15:00 - 16:00	0.0102	0.0098	0.0103	0.0102	0.0099	0.0097	0.0102
16:00 - 17:00	0.0103	0.0098	0.0100	0.0097	0.0099	0.0099	0.0098
17:00 - 18:00	0.0099	0.0098	0.0099	0.0099	0.0098	0.0100	0.0101
Average-24Hr*	0.0100	0.0099	0.0100	0.0100	0.0099	0.0099	0.0099
Max-1Hr	0.0103	0.0103	0.0103	0.0103	0.0103	0.0103	0.0102
Min-1Hr	0.0096	0.0096	0.0096	0.0096	0.0096	0.0096	0.0096
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 18:00-18:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team





Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Nong Takai Temple	Monitor Period : 20-27 Jun 2024
Analyzer Model : API 100E	Station No : Shelter 14
Serial No : 069	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
17:00 - 18:00	0.0086	0.0081	0.0081	0.0093	0.0088	0.0082	0.0079
18:00 - 19:00	0.0091	0.0086	0.0084	0.0093	0.0080	0.0079	0.0090
19:00 - 20:00	0.0079	0.0092	0.0088	0.0084	0.0087	0.0079	0.0080
20:00 - 21:00	0.0082	0.0084	0.0080	0.0079	0.0077	0.0079	0.0083
21:00 - 22:00	0.0093	0.0085	0.0086	0.0084	0.0092	0.0079	0.0076
22:00 - 23:00	0.0093	0.0091	0.0083	0.0091	0.0092	0.0091	0.0084
23:00 - 00:00	0.0086	0.0092	0.0078	0.0091	0.0079	0.0088	0.0090
00:00 - 01:00	0.0077	0.0086	0.0085	0.0086	0.0084	0.0088	0.0083
01:00 - 02:00	0.0076	0.0081	0.0086	0.0083	0.0078	0.0083	0.0093
02:00 - 03:00	0.0087	0.0077	0.0082	0.0078	0.0087	0.0087	0.0086
03:00 - 04:00	0.0078	0.0092	0.0088	0.0087	0.0093	0.0083	0.0083
04:00 - 05:00	0.0092	0.0080	0.0090	0.0089	0.0077	0.0090	0.0091
05:00 - 06:00	0.0092	0.0076	0.0079	0.0087	0.0082	0.0079	0.0093
06:00 - 07:00	0.0088	0.0084	0.0079	0.0078	0.0090	0.0083	0.0085
07:00 - 08:00	0.0077	0.0091	0.0084	0.0080	0.0080	0.0081	0.0092
08:00 - 09:00	0.0085	0.0079	0.0080	0.0090	0.0077	0.0079	0.0088
09:00 - 10:00	0.0083	0.0084	0.0085	0.0089	0.0086	0.0087	0.0088
10:00 - 11:00	0.0077	0.0081	0.0088	0.0088	0.0084	0.0087	0.0091
11:00 - 12:00	0.0090	0.0078	0.0076	0.0084	0.0089	0.0087	0.0087
12:00 - 13:00	0.0089	0.0093	0.0089	0.0085	0.0085	0.0088	0.0079
13:00 - 14:00	0.0087	0.0088	0.0093	0.0080	0.0088	0.0089	0.0076
14:00 - 15:00	0.0091	0.0078	0.0082	0.0090	0.0080	0.0076	0.0078
15:00 - 16:00	0.0089	0.0084	0.0080	0.0082	0.0084	0.0091	0.0075
16:00 - 17:00	0.0085	0.0079	0.0079	0.0077	0.0088	0.0077	0.0071
Average-24Hr*	0.0086	0.0084	0.0084	0.0085	0.0084	0.0084	0.0084
Max-1Hr	0.0093	0.0093	0.0093	0.0093	0.0093	0.0091	0.0093
Min-1Hr	0.0076	0.0076	0.0076	0.0077	0.0077	0.0076	0.0071
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 17:00-17:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert Amb/TSP-Nov24
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/11/2024-05/12/2024
RECEIVED DATE : 07/12/2024 ANALYTICAL DATE : 09-11/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
STATION DESCRIPTION : 1. Santi Silaram Temple 3. Nong Bon Temple
2. Banna Klang School 4. Nong Takai Temple

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
TSP (24 hr.)	28-29/11/2024	mg/m ³	0.079	0.086	0.113	0.056	0.330	High Volume
	29-30/11/2024	mg/m ³	0.065	0.078	0.073	0.058		Air Sampler/
	30/11-01/12/2024	mg/m ³	0.064	0.062	0.069	0.064		Gravimetric Method
	01-02/12/2024	mg/m ³	0.086	0.150	0.093	0.088		
	02-03/12/2024	mg/m ³	0.065	0.095	0.057	0.051		
	03-04/12/2024	mg/m ³	0.060	0.101	0.098	0.054		
	04-05/12/2024	mg/m ³	0.061	0.087	0.066	0.041		

Pornnapa Budthum
(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.



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert Amb/PM-10-Nov24
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/11/2024-05/12/2024
RECEIVED DATE : 07/12/2024 ANALYTICAL DATE : 09-11/12/2024
REPORT DATE : 12/12/2024 SAMPLE CONDITION : Normal
STATION DESCRIPTION : 1. Santi Silaram Temple 3. Nong Bon Temple
2. Banna Klang School 4. Nong Takai Temple

PARAMETER	SAMPLING DATE	UNITS	RESULTS				STANDARD*	REFERENCE METHODS
			1	2	3	4		
PM-10 (24 hr.)	28-29/11/2024	mg/m ³	0.042	0.029	0.100	0.023	0.120	High Volume
	29-30/11/2024	mg/m ³	0.045	0.040	0.059	0.033		Air Sampler/
	30/11-01/12/2024	mg/m ³	0.059	0.047	0.057	0.038		(Hi-Vol PM-10
	01-02/12/2024	mg/m ³	0.071	0.088	0.074	0.050		Size Selective Inlet/
	02-03/12/2024	mg/m ³	0.058	0.079	0.047	0.031		Gravimetric Method
	03-04/12/2024	mg/m ³	0.053	0.044	0.057	0.034		
	04-05/12/2024	mg/m ³	0.052	0.043	0.044	0.029		

Pornnapa Budthum
(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.



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple

Monitor period : 28 Nov 2024-05 Dec 2024

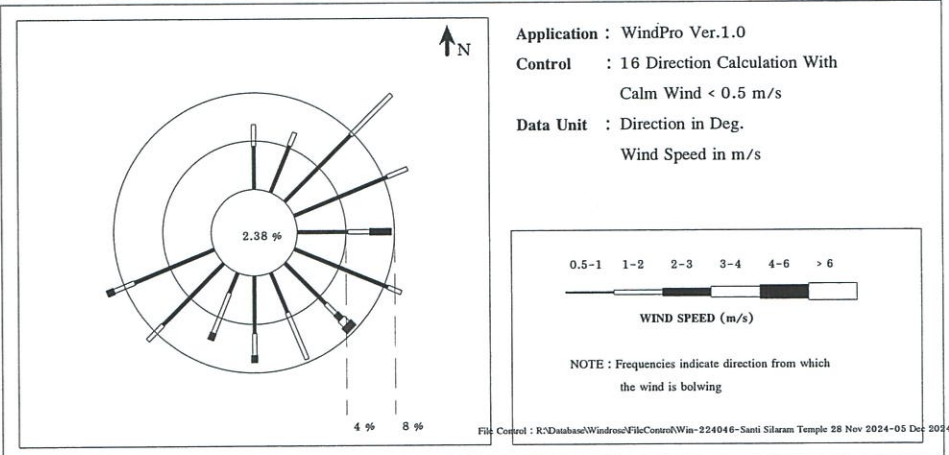
Wind Speed Model : Novalynx WS-25

Serial No : A5091

Wind Direction Model : Novalynx WS-25

Serial No : A5091

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	0.0357	0.0179	0.0000	0.0000	0.0000	0.0000	0.0536
NNE	0.0417	0.0119	0.0000	0.0000	0.0000	0.0000	0.0536
NE	0.0774	0.0476	0.0000	0.0000	0.0000	0.0000	0.1250
ENE	0.0833	0.0179	0.0000	0.0000	0.0000	0.0000	0.1012
E	0.0417	0.0179	0.0179	0.0000	0.0000	0.0000	0.0774
ESE	0.0833	0.0119	0.0000	0.0000	0.0000	0.0000	0.0952
SE	0.0476	0.0119	0.0060	0.0060	0.0060	0.0000	0.0774
SSE	0.0357	0.0417	0.0000	0.0000	0.0000	0.0000	0.0774
S	0.0476	0.0179	0.0060	0.0000	0.0000	0.0000	0.0714
SSW	0.0179	0.0357	0.0060	0.0000	0.0000	0.0000	0.0595
SW	0.0714	0.0179	0.0000	0.0000	0.0000	0.0000	0.0893
WSW	0.0714	0.0179	0.0060	0.0000	0.0000	0.0000	0.0952
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0238						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx WS-25

Serial No : A5091

Wind Direction Model : Novalynx WS-25

Serial No : A5091

Time	28-29 Nov 2024		29-30 Nov 2024		30 Nov-01 Dec 2024		01-02 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	0.9	SW	0.9	ENE	0.5	SE	0.5	ESE
10:00 - 11:00	0.6	N	0.5	N	1.2	NE	1.0	SSW
11:00 - 12:00	0.7	ENE	1.2	SE	1.2	S	0.6	SW
12:00 - 13:00	0.7	SE	0.9	NE	0.7	N	0.4	ESE
13:00 - 14:00	0.8	WSW	0.4	ESE	2.1	S	1.2	WSW
14:00 - 15:00	4.4	SE	0.6	NE	0.5	NE	0.9	ENE
15:00 - 16:00	1.3	ENE	1.9	ENE	0.6	ENE	0.8	WSW
16:00 - 17:00	0.8	SSE	0.8	NNE	1.2	ESE	1.0	ESE
17:00 - 18:00	0.7	S	0.7	SW	0.8	ESE	0.7	NE
18:00 - 19:00	2.5	SSW	0.9	WSW	1.1	SSE	0.8	S
19:00 - 20:00	2.4	E	0.9	N	0.7	ENE	0.8	S
20:00 - 21:00	0.7	S	1.0	SSE	1.1	S	0.8	NE
21:00 - 22:00	0.5	SW	1.2	SSE	0.7	ESE	0.9	WSW
22:00 - 23:00	0.6	E	0.5	WSW	0.5	SE	1.2	E
23:00 - 24:00	0.4	ENE	0.7	E	0.5	SSE	1.0	ENE
00:00 - 01:00	3.6	SE	0.5	SW	0.5	WSW	1.2	SSW
01:00 - 02:00	1.0	NE	1.2	N	0.6	NE	0.5	NNE
02:00 - 03:00	2.3	SE	0.6	E	0.6	ESE	1.2	SSE
03:00 - 04:00	1.0	WSW	0.7	NNE	0.7	SE	0.8	SSE
04:00 - 05:00	0.6	ENE	1.0	SE	0.8	ENE	0.7	ESE
05:00 - 06:00	1.3	SW	1.0	NE	0.8	NE	0.5	SW
06:00 - 07:00	1.1	SSW	0.7	SSW	0.5	SE	0.9	ENE
07:00 - 08:00	1.2	NNE	0.5	WSW	0.5	ENE	0.8	SSE
08:00 - 09:00	2.9	E	0.6	E	1.0	NE	0.6	NE

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-224046-Santi Silaram Temple 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Santi Silaram Temple

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx WS-25

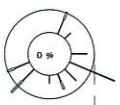
Serial No : A5091

Wind Direction Model : Novalynx WS-25

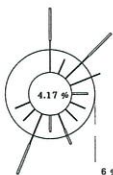
Serial No : A5091

Time	02-03 Dec 2024		03-04 Dec 2024		04-05 Dec 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
09:00 - 10:00	0.8	SE	0.7	SSE	0.7	NE	
10:00 - 11:00	0.8	NE	1.0	SSW	1.9	SSW	
11:00 - 12:00	0.6	SW	1.1	S	2.2	WSW	
12:00 - 13:00	0.7	E	1.5	SSW	1.5	NE	
13:00 - 14:00	0.9	NNE	1.0	N	1.0	E	
14:00 - 15:00	1.2	NNE	0.8	NE	2.8	E	
15:00 - 16:00	1.0	WSW	1.2	NE	0.5	ESE	
16:00 - 17:00	0.9	SSE	0.9	ENE	0.5	S	
17:00 - 18:00	0.6	ESE	1.1	SSE	0.5	SW	
18:00 - 19:00	0.9	ESE	0.5	N	0.5	WSW	
19:00 - 20:00	0.5	ESE	1.0	N	0.6	WSW	
20:00 - 21:00	0.5	ESE	1.1	NE	0.6	E	
21:00 - 22:00	0.6	ESE	0.7	WSW	0.6	S	
22:00 - 23:00	0.5	WSW	0.5	ESE	1.2	NE	
23:00 - 24:00	0.6	S	0.9	SE	0.7	SW	
00:00 - 01:00	1.2	SW	0.8	NNE	0.9	ESE	
01:00 - 02:00	0.5	WSW	0.7	SSW	0.5	S	
02:00 - 03:00	0.5	SE	0.8	SW	0.8	ENE	
03:00 - 04:00	0.5	SW	0.6	NE	0.7	ENE	
04:00 - 05:00	0.8	E	0.6	N	0.5	SW	
05:00 - 06:00	0.8	NNE	1.1	E	0.7	NNE	
06:00 - 07:00	1.0	SSE	0.7	ENE	1.0	SSE	
07:00 - 08:00	0.6	ESE	0.9	SSW	0.7	ENE	
08:00 - 09:00	1.0	SW	0.1	NE	0.7	NE	

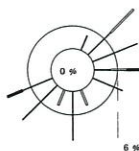
Wind Rose



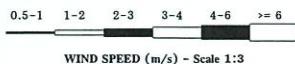
12 %



6 %



6 %



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

File Control :R:\Database\Windrose\FileControl\Win-224046-Santi Silaram Temple 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 28 Nov 2024-05 Dec 2024

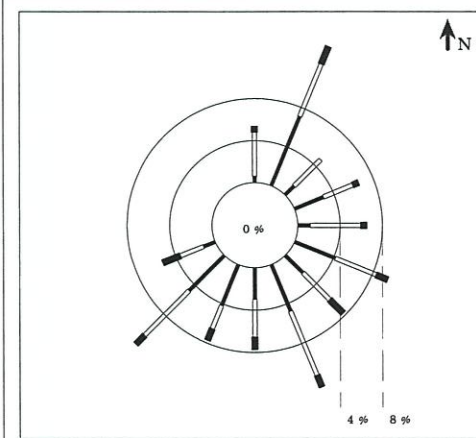
Wind Speed Model : Novalynx NL-32

Serial No : 15102801

Wind Direction Model : Novalynx NL-32

Serial No : 15102801

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	0.0060	0.0417	0.0060	0.0000	0.0000	0.0000	0.0536
NNE	0.0714	0.0536	0.0179	0.0000	0.0000	0.0000	0.1429
NE	0.0119	0.0357	0.0000	0.0000	0.0000	0.0000	0.0476
ENE	0.0298	0.0298	0.0060	0.0000	0.0000	0.0000	0.0655
E	0.0119	0.0476	0.0060	0.0000	0.0000	0.0000	0.0655
ESE	0.0417	0.0417	0.0119	0.0000	0.0000	0.0000	0.0952
SE	0.0238	0.0357	0.0179	0.0000	0.0000	0.0000	0.0774
SSE	0.0476	0.0655	0.0119	0.0000	0.0000	0.0000	0.1250
S	0.0298	0.0357	0.0119	0.0000	0.0000	0.0000	0.0774
SSW	0.0417	0.0238	0.0119	0.0000	0.0000	0.0000	0.0774
SW	0.0476	0.0595	0.0119	0.0000	0.0000	0.0000	0.1190
WSW	0.0119	0.0238	0.0179	0.0000	0.0000	0.0000	0.0536
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0000						



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



WIND SPEED (m/s)

NOTE : Frequencies indicate direction from which
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224046-Banna Klang School 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx NL-32

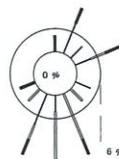
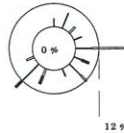
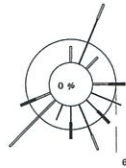
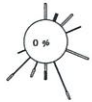
Serial No : 15102801

Wind Direction Model : Novalynx NL-32

Serial No : 15102801

Time	28-29 Nov 2024		29-30 Nov 2024		30 Nov-01 Dec 2024		01-02 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.1	NE	2.0	WSW	0.5	NNE	0.7	SSW
11:00 - 12:00	1.4	S	1.7	NE	0.7	ESE	1.7	SSW
12:00 - 13:00	0.9	WSW	0.6	SE	1.7	E	1.6	SSE
13:00 - 14:00	0.9	SSE	1.7	E	2.1	ESE	2.0	WSW
14:00 - 15:00	1.1	SSE	0.5	SSW	1.6	E	0.9	NNE
15:00 - 16:00	0.6	SSE	2.1	E	0.8	SSE	2.1	ENE
16:00 - 17:00	0.9	ENE	0.9	ESE	0.9	SE	1.1	SSE
17:00 - 18:00	2.0	S	0.6	ESE	2.1	SSW	1.3	ENE
18:00 - 19:00	0.9	SW	1.2	SSE	0.8	SW	1.0	S
19:00 - 20:00	0.6	SW	0.9	NNE	0.6	E	0.9	NNE
20:00 - 21:00	1.1	SSW	1.5	SW	1.0	E	2.1	N
21:00 - 22:00	1.6	NE	0.7	NNE	0.6	SW	1.9	SW
22:00 - 23:00	0.8	SSW	1.7	SW	0.8	N	2.0	SSW
23:00 - 24:00	1.6	N	2.1	SE	0.6	NNE	0.5	S
00:00 - 01:00	0.6	SW	0.8	NNE	0.7	E	0.7	SSW
01:00 - 02:00	0.7	SSE	1.5	SW	0.9	SW	2.0	NNE
02:00 - 03:00	1.2	N	1.3	SW	1.3	WSW	0.8	NE
03:00 - 04:00	1.4	ESE	1.0	N	1.2	SSW	2.1	SSE
04:00 - 05:00	0.7	SSE	2.0	S	2.0	SW	1.7	S
05:00 - 06:00	1.3	SW	1.8	WSW	1.8	SE	0.8	ENE
06:00 - 07:00	1.8	ESE	0.7	SSE	0.7	SE	1.3	S
07:00 - 08:00	0.8	ENE	1.5	NNE	0.7	ENE	0.9	ESE
08:00 - 09:00	2.1	NNE	0.7	SSE	1.1	NE	1.7	SE
09:00 - 10:00	1.9	ESE	0.9	S	1.	E	1.1	SSE

Wind Rose



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

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Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Banna Klang School

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx NL-32

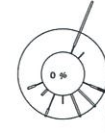
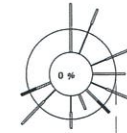
Serial No : 15102801

Wind Direction Model : Novalynx NL-32

Serial No : 15102801

Time	02-03 Dec 2024		03-04 Dec 2024		04-05 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.1	WSW	1.0	SW	1.7	SSE
11:00 - 12:00	2.0	SE	1.8	NNE	2.1	NNE
12:00 - 13:00	0.9	ENE	1.0	NNE	2.1	SSE
13:00 - 14:00	1.7	SW	0.5	NE	0.8	NNE
14:00 - 15:00	1.4	ESE	1.0	SSE	0.9	SE
15:00 - 16:00	1.7	N	1.5	NNE	1.1	ENE
16:00 - 17:00	1.2	N	1.5	SSE	1.3	NE
17:00 - 18:00	1.1	E	0.9	SSW	1.5	ENE
18:00 - 19:00	0.8	SW	1.0	SE	1.3	NE
19:00 - 20:00	0.5	ESE	1.0	NNE	0.9	SW
20:00 - 21:00	1.2	E	0.7	ESE	0.8	NNE
21:00 - 22:00	1.2	NNE	1.8	ESE	0.8	ESE
22:00 - 23:00	1.3	ENE	0.6	SSW	0.5	SSE
23:00 - 24:00	1.7	SSE	1.0	SSW	2.0	SW
00:00 - 01:00	1.0	S	0.9	NNE	1.4	ESE
01:00 - 02:00	1.2	N	1.3	SE	1.9	SW
02:00 - 03:00	1.8	ENE	1.9	NNE	1.8	N
03:00 - 04:00	0.8	S	2.1	ESE	1.6	S
04:00 - 05:00	1.9	WSW	1.3	WSW	0.6	S
05:00 - 06:00	0.9	NNE	1.1	NNE	1.0	NNE
06:00 - 07:00	1.4	ESE	1.3	SSE	2.0	SE
07:00 - 08:00	0.6	NNE	1.9	SE	1.8	SSE
08:00 - 09:00	1.3	SW	0.9	WSW	0.7	SSW
09:00 - 10:00	1.2	SE	0.6	S	1.6	E

Wind Rose



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

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Bangruae, Bangkok 10800

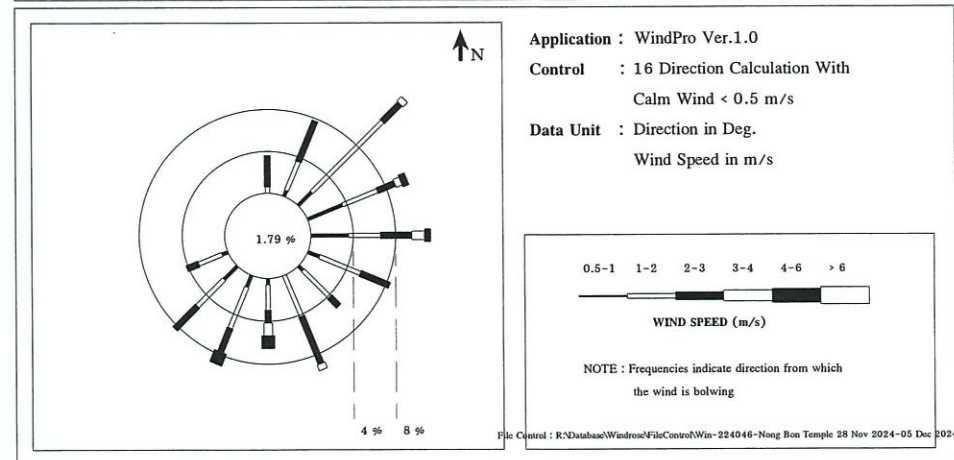
Tel:166(0)2959-3600 Fax:166(0)2959-3535



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple Monitor period : 28 Nov 2024-05 Dec 2024
Wind Speed Model : Novalynx WS-25 Serial No : A4905
Wind Direction Model : Novalynx WS-25 Serial No : A4905

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	0.0000	0.0060	0.0298	0.0000	0.0000	0.0000	0.0357
NNE	0.0060	0.0298	0.0417	0.0000	0.0000	0.0000	0.0774
NE	0.0179	0.0952	0.0238	0.0060	0.0000	0.0000	0.1429
ENE	0.0357	0.0357	0.0179	0.0060	0.0060	0.0000	0.1012
E	0.0357	0.0298	0.0298	0.0119	0.0060	0.0000	0.1131
ESE	0.0119	0.0417	0.0298	0.0000	0.0000	0.0000	0.0833
SE	0.0060	0.0357	0.0119	0.0000	0.0000	0.0000	0.0536
SSE	0.0000	0.0417	0.0476	0.0060	0.0000	0.0000	0.0952
S	0.0060	0.0238	0.0119	0.0119	0.0119	0.0000	0.0655
SSW	0.0119	0.0417	0.0238	0.0000	0.0119	0.0000	0.0893
SW	0.0179	0.0357	0.0298	0.0000	0.0000	0.0000	0.0833
WSW	0.0060	0.0238	0.0119	0.0000	0.0000	0.0000	0.0417
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0179						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

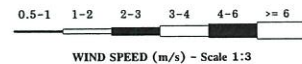


Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple Monitor period : 28 Nov 2024-05 Dec 2024
Wind Speed Model : Novalynx WS-25 Serial No : A4905
Wind Direction Model : Novalynx WS-25 Serial No : A4905

Time	28-29 Nov 2024		29-30 Nov 2024		30 Nov-01 Dec 2024		01-02 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
12:00 - 13:00	2.0	S	1.8	NE	3.2	S	0.5	E
13:00 - 14:00	1.7	SE	1.6	NNE	4.0	E	0.4	SSE
14:00 - 15:00	2.2	ESE	2.5	N	0.7	S	3.0	NE
15:00 - 16:00	1.0	NE	0.9	SSW	0.2	SE	1.8	NE
16:00 - 17:00	1.2	ENE	1.7	NNE	1.6	ESE	2.3	NNE
17:00 - 18:00	2.6	NNE	2.7	E	2.5	NE	1.0	SSW
18:00 - 19:00	2.7	NE	1.9	NE	1.9	E	2.5	NNE
19:00 - 20:00	1.9	WSW	2.1	WSW	1.7	NE	1.4	ESE
20:00 - 21:00	2.1	E	0.9	E	1.0	NE	2.5	NE
21:00 - 22:00	1.1	SSE	0.9	ENE	2.0	WSW	1.8	WSW
22:00 - 23:00	1.4	NE	2.3	SSW	0.9	E	2.2	E
23:00 - 24:00	2.2	SE	1.4	NE	1.1	S	0.8	ENE
00:00 - 01:00	1.7	N	2.3	SSE	1.6	NE	1.6	SSW
01:00 - 02:00	1.5	ESE	1.8	SW	2.3	SSE	1.7	NE
02:00 - 03:00	2.6	SW	1.4	NE	2.6	N	2.0	SSE
03:00 - 04:00	1.2	NE	0.9	SW	1.5	ESE	2.3	SW
04:00 - 05:00	2.3	SSE	0.9	SW	2.5	SW	2.5	ENE
05:00 - 06:00	1.6	SSW	2.4	NE	1.5	NE	1.4	SW
06:00 - 07:00	1.8	NE	2.2	SSE	2.1	SSE	1.6	WSW
07:00 - 08:00	0.8	SE	2.7	ENE	2.5	SSW	0.8	NE
08:00 - 09:00	0.7	ESE	2.2	ESE	0.6	ENE	1.1	SSE
09:00 - 10:00	1.8	ENE	0.9	ENE	2.5	SSE	0.7	ENE
10:00 - 11:00	0.8	ENE	1.4	SW	2.0	ESE	0.9	ESE
11:00 - 12:00	1.0	SSE	1.7	SW	4.1	ENE	3.7	ENE

Wind Rose



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Bon Temple

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx WS-25

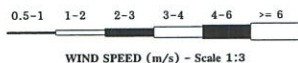
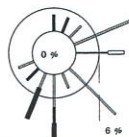
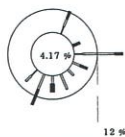
Serial No : A4905

Wind Direction Model : Novalynx WS-25

Serial No : A4905

Time	02-03 Dec 2024		03-04 Dec 2024		04-05 Dec 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
12:00 - 13:00	0.6	SW	5.1	S	3.8	E	
13:00 - 14:00	2.0	ESE	1.7	NE	2.2	NNE	
14:00 - 15:00	1.7	SSE	2.8	NNE	2.5	N	
15:00 - 16:00	2.4	SSW	1.2	SSW	3.0	S	
16:00 - 17:00	0.3	SW	1.8	S	1.0	NNE	
17:00 - 18:00	1.9	E	1.1	SE	1.3	ESE	
18:00 - 19:00	1.1	E	1.6	WSW	2.7	ESE	
19:00 - 20:00	1.7	E	0.6	E	1.2	NNE	
20:00 - 21:00	0.7	NNE	2.0	S	2.6	E	
21:00 - 22:00	1.6	S	1.9	ENE	1.5	NE	
22:00 - 23:00	2.3	E	1.3	SE	0.6	WSW	
23:00 - 24:00	1.7	SSE	1.5	SE	0.8	NE	
00:00 - 01:00	0.8	E	1.3	ENE	2.7	NNE	
01:00 - 02:00	1.8	SSW	1.4	ENE	2.2	SSE	
02:00 - 03:00	1.8	SE	1.8	SE	2.2	N	
03:00 - 04:00	2.3	ENE	1.4	SSE	1.3	ESE	
04:00 - 05:00	1.9	ESE	1.2	S	1.6	SW	
05:00 - 06:00	2.6	NNE	2.4	N	0.8	NE	
06:00 - 07:00	1.8	NNE	0.6	E	0.8	SSW	
07:00 - 08:00	1.1	SW	3.2	E	2.3	SW	
08:00 - 09:00	2.3	SSW	4.0	SSW	3.8	SSE	
09:00 - 10:00	1.7	E	1.4	ENE	1.5	SSW	
10:00 - 11:00	1.9	SSW	4.4	SSW	2.0	SE	
11:00 - 12:00	4.3	S	2.5	SW	1.9	SSE	

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Bon Temple 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
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(Miss Preeda Somjai)
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Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple

Monitor period : 28 Nov 2024-05 Dec 2024

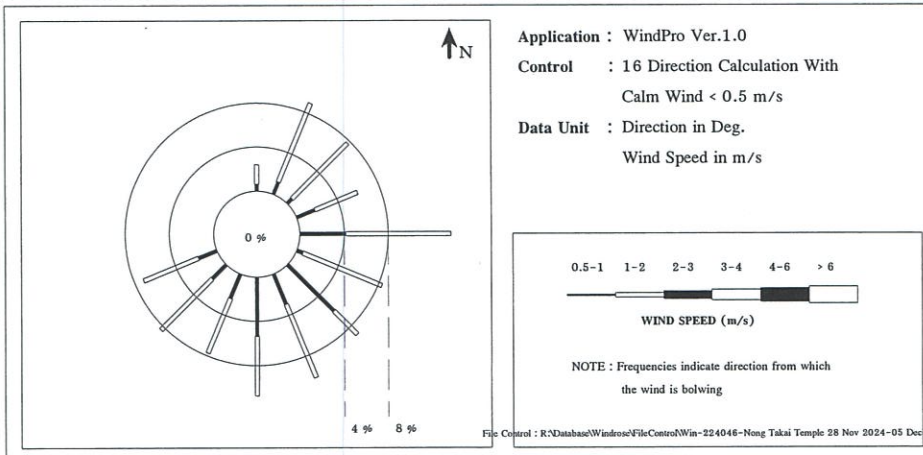
Wind Speed Model : Novalynx NL-32

Serial No : 17112002

Wind Direction Model : Novalynx NL-32

Serial No : 17112002

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	0.0060	0.0179	0.0000	0.0000	0.0000	0.0000	0.0238
NNE	0.0119	0.0774	0.0000	0.0000	0.0000	0.0000	0.0893
NE	0.0060	0.0714	0.0000	0.0000	0.0000	0.0000	0.0774
ENE	0.0179	0.0417	0.0000	0.0000	0.0000	0.0000	0.0595
E	0.0417	0.0952	0.0000	0.0000	0.0000	0.0000	0.1369
ESE	0.0060	0.0774	0.0000	0.0000	0.0000	0.0000	0.0833
SE	0.0595	0.0298	0.0000	0.0000	0.0000	0.0000	0.0893
SSE	0.0298	0.0714	0.0000	0.0000	0.0000	0.0000	0.1012
S	0.0536	0.0536	0.0000	0.0000	0.0000	0.0000	0.1071
SSW	0.0238	0.0536	0.0000	0.0000	0.0000	0.0000	0.0774
SW	0.0179	0.0655	0.0000	0.0000	0.0000	0.0000	0.0833
WSW	0.0179	0.0536	0.0000	0.0000	0.0000	0.0000	0.0714
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0000						



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(Miss Preeda Somjai)
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Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx NL-32

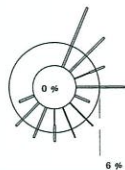
Serial No : 17112002

Wind Direction Model : Novalynx NL-32

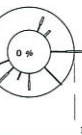
Serial No : 17112002

Time	28-29 Nov 2024		29-30 Nov 2024		30 Nov-01 Dec 2024		01-02 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.2	NNE	1.1	ESE	0.5	SE	1.1	NE
12:00 - 13:00	1.9	S	1.4	ESE	0.5	E	1.5	SSW
13:00 - 14:00	0.5	S	1.6	S	0.5	E	1.8	SSE
14:00 - 15:00	0.5	ENE	0.5	SW	1.1	WSW	1.2	E
15:00 - 16:00	0.8	SE	0.9	SE	1.1	WSW	1.7	E
16:00 - 17:00	1.7	E	1.5	NE	1.9	E	1.1	SSE
17:00 - 18:00	1.9	E	1.7	SSW	0.6	SSW	1.5	N
18:00 - 19:00	1.7	NE	0.9	S	0.7	SE	1.6	ENE
19:00 - 20:00	1.8	E	0.9	S	0.6	WSW	1.6	E
20:00 - 21:00	1.0	NE	1.0	SE	1.4	SW	0.7	SE
21:00 - 22:00	1.4	NE	1.6	NNE	1.2	S	1.1	S
22:00 - 23:00	1.8	NNE	1.8	SSW	0.8	S	0.8	SW
23:00 - 24:00	1.9	WSW	1.7	SW	1.2	WSW	1.2	SSE
00:00 - 01:00	1.9	NNE	0.8	SSW	1.2	SW	1.8	NE
01:00 - 02:00	0.7	SE	1.3	ESE	1.7	E	1.0	E
02:00 - 03:00	1.9	SW	1.4	WSW	0.9	NNE	0.6	SE
03:00 - 04:00	1.7	NNE	1.5	SSE	0.8	SE	1.1	ESE
04:00 - 05:00	0.7	SSE	1.1	S	1.1	NE	1.9	ESE
05:00 - 06:00	1.0	ESE	1.8	NE	0.7	SW	1.6	SW
06:00 - 07:00	0.7	SSE	0.6	ENE	1.1	WSW	0.9	E
07:00 - 08:00	1.5	SSW	0.5	SE	1.7	SW	0.7	NE
08:00 - 09:00	1.3	SSW	1.3	ESE	1.8	NNE	1.8	SSE
09:00 - 10:00	1.9	ENE	1.5	ESE	0.5	WSW	1.3	E
10:00 - 11:00	1.4	SW	1.4	NE	0.8	WSW	1.9	SE

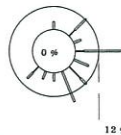
Wind Rose



6 %



12 %



12 %



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

File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Takai Temple 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-REN Operation

Location : Nong Takai Temple

Monitor period : 28 Nov 2024-05 Dec 2024

Wind Speed Model : Novalynx NL-32

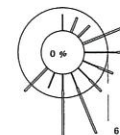
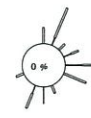
Serial No : 17112002

Wind Direction Model : Novalynx NL-32

Serial No : 17112002

Time	02-03 Dec 2024		03-04 Dec 2024		04-05 Dec 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.1	N	1.3	SSE	0.5	SSE
12:00 - 13:00	0.6	E	1.0	ESE	1.7	NNE
13:00 - 14:00	1.1	SSW	1.1	SSW	1.0	NE
14:00 - 15:00	0.5	E	0.6	SSE	1.1	S
15:00 - 16:00	1.9	SSE	1.8	ENE	1.3	E
16:00 - 17:00	0.5	ENE	1.5	E	0.8	E
17:00 - 18:00	0.5	S	0.8	S	0.8	ESE
18:00 - 19:00	1.7	ENE	1.2	S	1.1	SW
19:00 - 20:00	1.6	ESE	1.7	SSE	1.1	SSE
20:00 - 21:00	0.8	SSW	1.1	SW	1.2	SSE
21:00 - 22:00	1.7	SSW	1.2	E	0.6	N
22:00 - 23:00	1.6	ESE	1.7	WSW	1.6	ENE
23:00 - 24:00	1.4	ESE	1.7	NNE	1.8	SSE
00:00 - 01:00	1.1	NE	1.9	SW	0.6	E
01:00 - 02:00	1.2	NNE	1.2	SSE	0.5	SE
02:00 - 03:00	1.0	E	1.2	SE	1.9	S
03:00 - 04:00	1.7	NNE	1.6	NNE	1.2	ENE
04:00 - 05:00	0.9	S	0.9	S	1.6	SW
05:00 - 06:00	1.1	NNE	1.9	SE	1.9	ENE
06:00 - 07:00	1.6	NNE	0.9	SSE	1.5	ESE
07:00 - 08:00	1.9	WSW	1.4	WSW	0.8	S
08:00 - 09:00	1.4	E	1.5	E	0.8	SSW
09:00 - 10:00	1.4	N	1.5	NE	1.1	SE
10:00 - 11:00	0.8	NNE	1.0	SSW	1.5	S

Wind Rose



6 %



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

File Control : R:\Database\Windrose\FileControl\Win-224046-Nong Takai Temple 28 Nov 2024-05 Dec 2024

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-REN Operation

Location : Santi Silaram Temple Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : API 200A Station No : Shelter 17
Serial No : 2387 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
09:00 - 10:00	0.0066	0.0076	0.0071	0.0075	0.0071	0.0063	0.0056
10:00 - 11:00	0.0057	0.0079	0.0060	0.0070	0.0056	0.0064	0.0066
11:00 - 12:00	0.0063	0.0069	0.0065	0.0065	0.0066	0.0061	0.0066
12:00 - 13:00	0.0060	0.0062	0.0057	0.0059	0.0053	0.0073	0.0062
13:00 - 14:00	0.0074	0.0068	0.0071	0.0063	0.0077	0.0070	0.0068
14:00 - 15:00	0.0055	0.0055	0.0073	0.0069	0.0056	0.0077	0.0066
15:00 - 16:00	0.0068	0.0077	0.0065	0.0065	0.0058	0.0062	0.0064
16:00 - 17:00	0.0076	0.0059	0.0070	0.0055	0.0060	0.0065	0.0069
17:00 - 18:00	0.0070	0.0060	0.0057	0.0058	0.0068	0.0069	0.0065
18:00 - 19:00	0.0057	0.0064	0.0065	0.0063	0.0065	0.0062	0.0064
19:00 - 20:00	0.0076	0.0062	0.0065	0.0071	0.0055	0.0076	0.0055
20:00 - 21:00	0.0064	0.0071	0.0054	0.0059	0.0065	0.0053	0.0068
21:00 - 22:00	0.0063	0.0063	0.0057	0.0065	0.0066	0.0075	0.0066
22:00 - 23:00	0.0059	0.0075	0.0075	0.0072	0.0064	0.0072	0.0062
23:00 - 00:00	0.0057	0.0064	0.0065	0.0053	0.0060	0.0070	0.0070
00:00 - 01:00	0.0078	0.0068	0.0071	0.0059	0.0061	0.0072	0.0069
01:00 - 02:00	0.0064	0.0070	0.0068	0.0062	0.0055	0.0076	0.0063
02:00 - 03:00	0.0071	0.0058	0.0065	0.0074	0.0060	0.0064	0.0076
03:00 - 04:00	0.0060	0.0065	0.0068	0.0064	0.0064	0.0063	0.0071
04:00 - 05:00	0.0077	0.0060	0.0064	0.0067	0.0059	0.0070	0.0056
05:00 - 06:00	0.0067	0.0072	0.0078	0.0062	0.0054	0.0067	0.0055
06:00 - 07:00	0.0068	0.0059	0.0064	0.0063	0.0071	0.0063	0.0070
07:00 - 08:00	0.0076	0.0058	0.0062	0.0058	0.0068	0.0056	0.0067
08:00 - 09:00	0.0071	0.0071	0.0061	0.0065	0.0077	0.0064	0.0055
Average-24Hr*	0.0067	0.0066	0.0065	0.0064	0.0063	0.0067	0.0064
Max-1Hr	0.0078	0.0079	0.0078	0.0075	0.0077	0.0077	0.0076
Min-1Hr	0.0055	0.0055	0.0054	0.0053	0.0053	0.0053	0.0055
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-REN Operation

Location : Banna Klang School Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : API 200A Station No : Shelter 18
Serial No : 1523 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
10:00 - 11:00	0.0064	0.0075	0.0068	0.0066	0.0061	0.0069	0.0062
11:00 - 12:00	0.0065	0.0065	0.0059	0.0081	0.0060	0.0077	0.0083
12:00 - 13:00	0.0076	0.0071	0.0058	0.0072	0.0072	0.0072	0.0063
13:00 - 14:00	0.0066	0.0075	0.0076	0.0074	0.0074	0.0078	0.0064
14:00 - 15:00	0.0073	0.0063	0.0079	0.0066	0.0080	0.0064	0.0079
15:00 - 16:00	0.0066	0.0059	0.0053	0.0067	0.0061	0.0072	0.0055
16:00 - 17:00	0.0065	0.0062	0.0064	0.0062	0.0067	0.0063	0.0062
17:00 - 18:00	0.0074	0.0060	0.0076	0.0080	0.0084	0.0052	0.0078
18:00 - 19:00	0.0073	0.0070	0.0074	0.0059	0.0069	0.0074	0.0068
19:00 - 20:00	0.0073	0.0062	0.0061	0.0065	0.0082	0.0075	0.0065
20:00 - 21:00	0.0071	0.0056	0.0070	0.0062	0.0077	0.0062	0.0063
21:00 - 22:00	0.0079	0.0066	0.0082	0.0065	0.0061	0.0068	0.0056
22:00 - 23:00	0.0074	0.0056	0.0066	0.0054	0.0083	0.0078	0.0069
23:00 - 00:00	0.0051	0.0078	0.0059	0.0076	0.0065	0.0069	0.0068
00:00 - 01:00	0.0083	0.0082	0.0079	0.0067	0.0081	0.0057	0.0069
01:00 - 02:00	0.0054	0.0074	0.0063	0.0078	0.0056	0.0081	0.0054
02:00 - 03:00	0.0069	0.0070	0.0062	0.0060	0.0069	0.0081	0.0079
03:00 - 04:00	0.0070	0.0069	0.0078	0.0056	0.0071	0.0059	0.0067
04:00 - 05:00	0.0077	0.0070	0.0070	0.0063	0.0056	0.0059	0.0064
05:00 - 06:00	0.0073	0.0075	0.0063	0.0070	0.0078	0.0065	0.0062
06:00 - 07:00	0.0062	0.0068	0.0058	0.0058	0.0072	0.0080	0.0069
07:00 - 08:00	0.0068	0.0064	0.0084	0.0069	0.0062	0.0064	0.0074
08:00 - 09:00	0.0057	0.0064	0.0073	0.0065	0.0064	0.0062	0.0059
09:00 - 10:00	0.0059	0.0073	0.0069	0.0060	0.0063	0.0080	0.0057
Average-24Hr*	0.0068	0.0068	0.0069	0.0066	0.0069	0.0069	0.0066
Max-1Hr	0.0083	0.0082	0.0084	0.0081	0.0084	0.0081	0.0083
Min-1Hr	0.0051	0.0056	0.0053	0.0054	0.0056	0.0052	0.0054
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-REN Operation

Location : Nong Bon Temple Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : API 200A Station No : Shelter 19
Serial No : 1505 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
12:00 - 13:00	0.0081	0.0083	0.0089	0.0067	0.0075	0.0071	0.0074
13:00 - 14:00	0.0071	0.0074	0.0072	0.0067	0.0084	0.0092	0.0066
14:00 - 15:00	0.0081	0.0060	0.0061	0.0067	0.0067	0.0073	0.0071
15:00 - 16:00	0.0076	0.0077	0.0059	0.0070	0.0078	0.0073	0.0075
16:00 - 17:00	0.0061	0.0065	0.0090	0.0082	0.0079	0.0070	0.0068
17:00 - 18:00	0.0072	0.0082	0.0079	0.0069	0.0074	0.0068	0.0089
18:00 - 19:00	0.0082	0.0073	0.0084	0.0089	0.0069	0.0073	0.0076
19:00 - 20:00	0.0084	0.0068	0.0086	0.0090	0.0068	0.0075	0.0069
20:00 - 21:00	0.0072	0.0073	0.0073	0.0074	0.0075	0.0085	0.0071
21:00 - 22:00	0.0077	0.0080	0.0078	0.0066	0.0068	0.0087	0.0068
22:00 - 23:00	0.0090	0.0072	0.0091	0.0066	0.0084	0.0079	0.0067
23:00 - 00:00	0.0065	0.0079	0.0088	0.0075	0.0078	0.0071	0.0067
00:00 - 01:00	0.0086	0.0090	0.0077	0.0076	0.0077	0.0059	0.0076
01:00 - 02:00	0.0072	0.0068	0.0059	0.0069	0.0073	0.0081	0.0082
02:00 - 03:00	0.0071	0.0088	0.0071	0.0057	0.0061	0.0072	0.0067
03:00 - 04:00	0.0087	0.0076	0.0077	0.0067	0.0073	0.0076	0.0083
04:00 - 05:00	0.0079	0.0068	0.0083	0.0080	0.0072	0.0064	0.0091
05:00 - 06:00	0.0088	0.0084	0.0086	0.0078	0.0062	0.0074	0.0069
06:00 - 07:00	0.0086	0.0078	0.0067	0.0081	0.0085	0.0078	0.0082
07:00 - 08:00	0.0080	0.0074	0.0075	0.0074	0.0086	0.0058	0.0069
08:00 - 09:00	0.0076	0.0058	0.0077	0.0060	0.0060	0.0063	0.0065
09:00 - 10:00	0.0082	0.0076	0.0066	0.0069	0.0086	0.0074	0.0078
10:00 - 11:00	0.0076	0.0079	0.0075	0.0079	0.0085	0.0062	0.0071
11:00 - 12:00	0.0085	0.0073	0.0065	0.0083	0.0065	0.0077	0.0071

Average-24Hr* 0.0078 0.0075 0.0076 0.0073 0.0074 0.0073 0.0074
Max-1Hr 0.0090 0.0090 0.0091 0.0090 0.0086 0.0092 0.0091
Min-1Hr 0.0061 0.0058 0.0059 0.0057 0.0060 0.0058 0.0065

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-REN Operation

Location : Nong Takai Temple Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : API 200A Station No : Shelter 15
Serial No : 2386 Site Operator : Mr. Sittichai Sawangwongchai

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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
11:00 - 12:00	0.0066	0.0057	0.0049	0.0054	0.0056	0.0058	0.0065
12:00 - 13:00	0.0064	0.0054	0.0055	0.0054	0.0053	0.0062	0.0050
13:00 - 14:00	0.0047	0.0051	0.0053	0.0057	0.0049	0.0061	0.0053
14:00 - 15:00	0.0054	0.0061	0.0053	0.0058	0.0065	0.0069	0.0059
15:00 - 16:00	0.0052	0.0062	0.0055	0.0050	0.0046	0.0049	0.0046
16:00 - 17:00	0.0051	0.0060	0.0061	0.0065	0.0059	0.0047	0.0050
17:00 - 18:00	0.0052	0.0053	0.0065	0.0061	0.0054	0.0044	0.0062
18:00 - 19:00	0.0064	0.0051	0.0047	0.0047	0.0051	0.0049	0.0060
19:00 - 20:00	0.0045	0.0058	0.0067	0.0060	0.0054	0.0056	0.0058
20:00 - 21:00	0.0060	0.0063	0.0062	0.0051	0.0050	0.0046	0.0059
21:00 - 22:00	0.0060	0.0056	0.0056	0.0066	0.0062	0.0066	0.0057
22:00 - 23:00	0.0054	0.0063	0.0059	0.0051	0.0051	0.0052	0.0061
23:00 - 00:00	0.0048	0.0046	0.0049	0.0061	0.0053	0.0068	0.0053
00:00 - 01:00	0.0059	0.0062	0.0059	0.0060	0.0049	0.0059	0.0046
01:00 - 02:00	0.0047	0.0047	0.0054	0.0052	0.0053	0.0062	0.0061
02:00 - 03:00	0.0046	0.0058	0.0047	0.0061	0.0043	0.0051	0.0057
03:00 - 04:00	0.0065	0.0056	0.0059	0.0056	0.0044	0.0055	0.0056
04:00 - 05:00	0.0042	0.0058	0.0058	0.0060	0.0055	0.0067	0.0051
05:00 - 06:00	0.0058	0.0047	0.0065	0.0052	0.0056	0.0058	0.0057
06:00 - 07:00	0.0064	0.0053	0.0059	0.0054	0.0062	0.0061	0.0053
07:00 - 08:00	0.0061	0.0050	0.0052	0.0053	0.0059	0.0056	0.0057
08:00 - 09:00	0.0060	0.0053	0.0062	0.0061	0.0045	0.0052	0.0056
09:00 - 10:00	0.0055	0.0054	0.0062	0.0069	0.0050	0.0063	0.0050
10:00 - 11:00	0.0066	0.0056	0.0053	0.0058	0.0049	0.0048	0.0046

Average-24Hr* 0.0056 0.0055 0.0057 0.0057 0.0053 0.0057 0.0055
Max-1Hr 0.0066 0.0063 0.0067 0.0069 0.0065 0.0069 0.0065
Min-1Hr 0.0042 0.0046 0.0047 0.0047 0.0043 0.0044 0.0046

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 : Sulfur dioxide MTR-REN Operation

Location : Santi Silaram Temple	Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : API 100A	Station No : Shelter 17
Serial No : 382	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
09:00 - 10:00	0.0043	0.0041	0.0039	0.0042	0.0041	0.0048	0.0045
10:00 - 11:00	0.0047	0.0048	0.0050	0.0051	0.0042	0.0045	0.0051
11:00 - 12:00	0.0046	0.0042	0.0049	0.0051	0.0044	0.0051	0.0048
12:00 - 13:00	0.0044	0.0039	0.0051	0.0044	0.0043	0.0046	0.0041
13:00 - 14:00	0.0042	0.0040	0.0039	0.0044	0.0040	0.0049	0.0044
14:00 - 15:00	0.0042	0.0047	0.0050	0.0042	0.0042	0.0047	0.0044
15:00 - 16:00	0.0041	0.0051	0.0045	0.0039	0.0043	0.0049	0.0042
16:00 - 17:00	0.0046	0.0050	0.0048	0.0050	0.0042	0.0047	0.0041
17:00 - 18:00	0.0050	0.0051	0.0051	0.0043	0.0051	0.0049	0.0040
18:00 - 19:00	0.0045	0.0043	0.0051	0.0039	0.0051	0.0039	0.0042
19:00 - 20:00	0.0047	0.0045	0.0044	0.0050	0.0042	0.0050	0.0051
20:00 - 21:00	0.0049	0.0050	0.0046	0.0046	0.0044	0.0039	0.0039
21:00 - 22:00	0.0042	0.0044	0.0041	0.0042	0.0043	0.0051	0.0042
22:00 - 23:00	0.0044	0.0040	0.0046	0.0039	0.0047	0.0039	0.0051
23:00 - 00:00	0.0044	0.0040	0.0045	0.0048	0.0040	0.0051	0.0047
00:00 - 01:00	0.0039	0.0049	0.0049	0.0045	0.0049	0.0050	0.0039
01:00 - 02:00	0.0043	0.0039	0.0042	0.0044	0.0047	0.0051	0.0039
02:00 - 03:00	0.0051	0.0045	0.0044	0.0049	0.0044	0.0039	0.0045
03:00 - 04:00	0.0042	0.0045	0.0047	0.0049	0.0039	0.0039	0.0041
04:00 - 05:00	0.0043	0.0051	0.0050	0.0039	0.0043	0.0040	0.0043
05:00 - 06:00	0.0041	0.0043	0.0044	0.0049	0.0039	0.0046	0.0045
06:00 - 07:00	0.0039	0.0043	0.0045	0.0047	0.0048	0.0043	0.0045
07:00 - 08:00	0.0051	0.0049	0.0049	0.0046	0.0040	0.0048	0.0044
08:00 - 09:00	0.0039	0.0047	0.0049	0.0040	0.0048	0.0045	0.0047
Average-24Hr*	0.0044	0.0045	0.0046	0.0045	0.0044	0.0046	0.0044
Max-1Hr	0.0051	0.0051	0.0051	0.0051	0.0051	0.0051	0.0051
Min-1Hr	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
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-REN Operation

Location : Banna Klang School	Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : Teledyne T100	Station No : Shelter 18
Serial No : 119	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
10:00 - 11:00	0.0048	0.0047	0.0043	0.0038	0.0046	0.0047	0.0047
11:00 - 12:00	0.0042	0.0049	0.0047	0.0044	0.0044	0.0042	0.0049
12:00 - 13:00	0.0043	0.0038	0.0044	0.0047	0.0049	0.0049	0.0045
13:00 - 14:00	0.0042	0.0045	0.0037	0.0041	0.0042	0.0040	0.0046
14:00 - 15:00	0.0049	0.0043	0.0048	0.0044	0.0040	0.0039	0.0043
15:00 - 16:00	0.0044	0.0042	0.0038	0.0049	0.0049	0.0041	0.0049
16:00 - 17:00	0.0045	0.0038	0.0048	0.0040	0.0038	0.0048	0.0048
17:00 - 18:00	0.0042	0.0049	0.0038	0.0042	0.0043	0.0043	0.0037
18:00 - 19:00	0.0041	0.0048	0.0041	0.0047	0.0048	0.0048	0.0038
19:00 - 20:00	0.0049	0.0047	0.0040	0.0043	0.0037	0.0039	0.0049
20:00 - 21:00	0.0046	0.0041	0.0039	0.0044	0.0043	0.0048	0.0039
21:00 - 22:00	0.0038	0.0039	0.0037	0.0049	0.0047	0.0048	0.0043
22:00 - 23:00	0.0048	0.0038	0.0037	0.0043	0.0040	0.0049	0.0041
23:00 - 00:00	0.0048	0.0039	0.0039	0.0039	0.0042	0.0043	0.0049
00:00 - 01:00	0.0038	0.0039	0.0043	0.0043	0.0039	0.0044	0.0045
01:00 - 02:00	0.0039	0.0045	0.0043	0.0045	0.0041	0.0037	0.0047
02:00 - 03:00	0.0046	0.0039	0.0046	0.0044	0.0041	0.0045	0.0042
03:00 - 04:00	0.0040	0.0040	0.0039	0.0042	0.0042	0.0047	0.0037
04:00 - 05:00	0.0039	0.0044	0.0044	0.0041	0.0047	0.0047	0.0041
05:00 - 06:00	0.0039	0.0048	0.0040	0.0046	0.0043	0.0048	0.0041
06:00 - 07:00	0.0043	0.0042	0.0041	0.0048	0.0047	0.0045	0.0040
07:00 - 08:00	0.0046	0.0038	0.0043	0.0037	0.0041	0.0042	0.0037
08:00 - 09:00	0.0043	0.0045	0.0042	0.0049	0.0038	0.0045	0.0043
09:00 - 10:00	0.0049	0.0037	0.0040	0.0041	0.0043	0.0049	0.0038
Average-24Hr*	0.0044	0.0043	0.0042	0.0044	0.0043	0.0045	0.0043
Max-1Hr	0.0049	0.0049	0.0048	0.0049	0.0049	0.0049	0.0049
Min-1Hr	0.0038	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037
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

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Nong Bon Temple	Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : Teledyne T100	Station No : Shelter 19
Serial No : 186	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
12:00 - 13:00	0.0051	0.0051	0.0041	0.0049	0.0050	0.0052	0.0050
13:00 - 14:00	0.0039	0.0041	0.0057	0.0052	0.0051	0.0043	0.0045
14:00 - 15:00	0.0057	0.0041	0.0047	0.0044	0.0041	0.0057	0.0049
15:00 - 16:00	0.0039	0.0055	0.0052	0.0039	0.0056	0.0040	0.0049
16:00 - 17:00	0.0050	0.0040	0.0049	0.0048	0.0053	0.0045	0.0051
17:00 - 18:00	0.0050	0.0040	0.0039	0.0057	0.0043	0.0050	0.0057
18:00 - 19:00	0.0055	0.0053	0.0042	0.0050	0.0040	0.0045	0.0040
19:00 - 20:00	0.0051	0.0051	0.0044	0.0045	0.0057	0.0053	0.0056
20:00 - 21:00	0.0051	0.0057	0.0054	0.0055	0.0048	0.0043	0.0042
21:00 - 22:00	0.0055	0.0045	0.0040	0.0056	0.0043	0.0042	0.0045
22:00 - 23:00	0.0046	0.0052	0.0047	0.0057	0.0043	0.0046	0.0055
23:00 - 00:00	0.0044	0.0041	0.0050	0.0041	0.0049	0.0046	0.0046
00:00 - 01:00	0.0054	0.0057	0.0039	0.0056	0.0053	0.0053	0.0053
01:00 - 02:00	0.0056	0.0052	0.0055	0.0049	0.0054	0.0043	0.0047
02:00 - 03:00	0.0053	0.0045	0.0040	0.0040	0.0047	0.0056	0.0050
03:00 - 04:00	0.0049	0.0040	0.0039	0.0042	0.0041	0.0040	0.0042
04:00 - 05:00	0.0057	0.0050	0.0051	0.0052	0.0039	0.0047	0.0056
05:00 - 06:00	0.0054	0.0039	0.0043	0.0047	0.0044	0.0045	0.0052
06:00 - 07:00	0.0042	0.0046	0.0047	0.0051	0.0041	0.0042	0.0051
07:00 - 08:00	0.0052	0.0056	0.0040	0.0051	0.0050	0.0041	0.0050
08:00 - 09:00	0.0039	0.0040	0.0041	0.0050	0.0042	0.0046	0.0042
09:00 - 10:00	0.0042	0.0047	0.0057	0.0039	0.0039	0.0042	0.0056
10:00 - 11:00	0.0044	0.0046	0.0047	0.0045	0.0041	0.0048	0.0052
11:00 - 12:00	0.0044	0.0044	0.0051	0.0047	0.0042	0.0054	0.0056

Average-24Hr*	0.0049	0.0047	0.0046	0.0048	0.0046	0.0047	0.0050
Max-1Hr	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057
Min-1Hr	0.0039	0.0039	0.0039	0.0039	0.0039	0.0040	0.0040

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

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-REN Operation

Location : Nong Takai Temple	Monitor Period : 28 Nov 2024-05 Dec 2024
Analyzer Model : Teledyne T100	Station No : Shelter 15
Serial No : 120	Site Operator : Mr. Sittichai Sawangwongchai
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)						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
11:00 - 12:00	0.0054	0.0054	0.0043	0.0034	0.0046	0.0039	0.0045
12:00 - 13:00	0.0053	0.0053	0.0045	0.0044	0.0045	0.0033	0.0036
13:00 - 14:00	0.0043	0.0035	0.0043	0.0035	0.0047	0.0048	0.0052
14:00 - 15:00	0.0037	0.0042	0.0034	0.0032	0.0035	0.0038	0.0044
15:00 - 16:00	0.0045	0.0048	0.0034	0.0052	0.0055	0.0038	0.0054
16:00 - 17:00	0.0043	0.0054	0.0037	0.0054	0.0033	0.0034	0.0038
17:00 - 18:00	0.0052	0.0052	0.0050	0.0055	0.0037	0.0051	0.0041
18:00 - 19:00	0.0051	0.0036	0.0041	0.0048	0.0032	0.0034	0.0032
19:00 - 20:00	0.0052	0.0045	0.0048	0.0051	0.0043	0.0048	0.0044
20:00 - 21:00	0.0050	0.0054	0.0040	0.0039	0.0042	0.0041	0.0033
21:00 - 22:00	0.0033	0.0052	0.0045	0.0044	0.0032	0.0039	0.0039
22:00 - 23:00	0.0053	0.0039	0.0049	0.0046	0.0050	0.0054	0.0032
23:00 - 00:00	0.0032	0.0038	0.0039	0.0046	0.0040	0.0042	0.0039
00:00 - 01:00	0.0054	0.0037	0.0033	0.0037	0.0050	0.0038	0.0034
01:00 - 02:00	0.0032	0.0049	0.0043	0.0047	0.0035	0.0055	0.0046
02:00 - 03:00	0.0032	0.0040	0.0035	0.0038	0.0034	0.0049	0.0037
03:00 - 04:00	0.0043	0.0033	0.0044	0.0047	0.0055	0.0041	0.0051
04:00 - 05:00	0.0039	0.0032	0.0035	0.0032	0.0043	0.0055	0.0037
05:00 - 06:00	0.0042	0.0038	0.0048	0.0048	0.0052	0.0035	0.0054
06:00 - 07:00	0.0052	0.0048	0.0055	0.0041	0.0051	0.0050	0.0044
07:00 - 08:00	0.0042	0.0036	0.0032	0.0043	0.0039	0.0032	0.0055
08:00 - 09:00	0.0051	0.0040	0.0053	0.0040	0.0050	0.0053	0.0037
09:00 - 10:00	0.0054	0.0037	0.0032	0.0052	0.0042	0.0042	0.0051
10:00 - 11:00	0.0043	0.0047	0.0048	0.0049	0.0043	0.0036	0.0046

Average-24Hr*	0.0045	0.0043	0.0042	0.0044	0.0043	0.0043	0.0043
Max-1Hr	0.0054	0.0054	0.0055	0.0055	0.0055	0.0055	0.0055
Min-1Hr	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032

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

(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ง.2

ใบรับรองผลการตรวจวิเคราะห์
คุณภาพอากาศจากปล่องระบายมลพิษทางอากาศ



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy		PM-10_Jun 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/06/2024
RECEIVED DATE	: 22/06/2024	ANALYTICAL DATE	: 22-24/06/2024
REPORT DATE	: 27/06/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 1

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 629	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 11.5	%
Temperature	: 310.5	°C	Moisture Content	: 10.7	%
Gas Velocity	: 16.1	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE METHODS
		11.5%O ₂	7%O ₂	7%O ₂	
Total Suspended Particulate	mg/Ncu.m.	3.23	4.80	20	US. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO. 3-239-ก-0021

Narisa Poowasanpetch

(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 mmHg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy		PM-10_Jun 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/06/2024
RECEIVED DATE	: 22/06/2024	ANALYTICAL DATE	: 22-24/06/2024
REPORT DATE	: 27/06/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 1

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 629	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 11.5	%
Temperature	: 310.5	°C	Moisture Content	: 10.7	%
Gas Velocity	: 16.1	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS	REFERENCE METHODS
		11.5%O ₂	7%O ₂	7%O ₂	
Particulate matter less than 10 microns	mg/Ncu.m.	1.72	2.55	-	US. EPA Method 210A

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO. 3-239-ก-0021

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 3-239-ก-0010

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

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

4. - Standard is not specified.



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STACK EMISSION ANALYSIS REPORT


CLIENT NAME : R E N Korat Energy Co., Ltd. REF. NO. : REN (Oper)224046_Cert-Stack/
R E N Korat Energy CEMS_Jun 24
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 20/06/2024
RECEIVED DATE : 24/06/2024 ANALYTICAL DATE : 25/06/2024-04/07/2024
REPORT DATE : 05/07/2024 SAMPLE CONDITION : Normal
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
OPERATOR : Mr. Kittipong Thakoengsuk STACK LOCATION : GEG Stack 1

STACK DESCRIPTION

Height : 25.0 m Flow Rate* : 629 Ncu.m/min
Diameter : 1.35 m Excess Oxygen : 11.5 %
Temperature : 310.5 °C Moisture Content : 10.7 %
Gas Velocity : 16.1 m/s

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE
		11.5%O ₂	7%O ₂	7%O ₂	METHODS
Sulfur Dioxide	ppm	0.45	0.66	15	US. EPA Method 6C
Oxides of Nitrogen	ppm	26.08	38.74	80	US. EPA Method 7E


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

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3. * At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.

The Monitoring Result of Emission Concentration GEG Stack 1 R E N KORAT ENERGY CO., LTD. June 20, 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	11.51	11.55	25.64	25.62	38.09
2	11.50	11.54	26.51	26.49	39.34
3	11.50	11.54	26.14	26.12	38.79
Average	11.51	11.54	26.10	26.08	38.74

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	11.51	11.55	0.53	0.51	0.76
2	11.50	11.54	0.49	0.46	0.68
3	11.50	11.54	0.40	0.37	0.55
Average	11.51	11.54	0.47	0.45	0.66

R E N KORAT ENERGY CO., LTD. **EMISSION TEST RESULT**

Run # : 1

Date: June 20, 2024
 Start time: 3:40 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : GEG Stack 1
 Finish time : 4:00 PM
 Serial No.: 071023-47
 Serial No.: 433
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
3:40 PM	11.51	23.80	0.57
3:41 PM	11.51	25.26	0.57
3:42 PM	11.52	24.77	0.56
3:43 PM	11.50	25.61	0.59
3:44 PM	11.52	26.36	0.59
3:45 PM	11.52	26.03	0.54
3:46 PM	11.50	26.47	0.57
3:47 PM	11.52	25.58	0.52
3:48 PM	11.51	25.91	0.50
3:49 PM	11.53	25.05	0.52
3:50 PM	11.51	24.96	0.53
3:51 PM	11.52	25.09	0.50
3:52 PM	11.51	25.61	0.50
3:53 PM	11.52	25.14	0.50
3:54 PM	11.51	25.57	0.50
3:55 PM	11.51	26.09	0.54
3:56 PM	11.52	26.41	0.50
3:57 PM	11.52	25.31	0.52
3:58 PM	11.51	25.71	0.50
3:59 PM	11.50	26.92	0.53
4:00 PM	11.50	26.86	0.50
Average	11.51	25.64	0.53

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

R E N KORAT ENERGY CO., LTD. **EMISSION TEST RESULT**

Run # : 2

Date: June 20, 2024
 Start time: 4:01 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : GEG Stack 1
 Finish time : 4:21 PM
 Serial No.: 071023-47
 Serial No.: 433
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
4:01 PM	11.52	26.98	0.50
4:02 PM	11.50	26.89	0.53
4:03 PM	11.51	26.35	0.52
4:04 PM	11.51	26.85	0.47
4:05 PM	11.50	27.16	0.49
4:06 PM	11.51	26.40	0.50
4:07 PM	11.49	27.15	0.51
4:08 PM	11.51	25.25	0.53
4:09 PM	11.50	26.40	0.45
4:10 PM	11.51	26.31	0.50
4:11 PM	11.51	25.52	0.46
4:12 PM	11.50	26.49	0.50
4:13 PM	11.51	25.93	0.52
4:14 PM	11.49	26.85	0.51
4:15 PM	11.51	26.35	0.44
4:16 PM	11.51	26.36	0.44
4:17 PM	11.50	26.32	0.48
4:18 PM	11.51	26.49	0.47
4:19 PM	11.50	26.52	0.47
4:20 PM	11.50	27.22	0.46
4:21 PM	11.50	26.88	0.46
Average	11.50	26.51	0.49

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

R E N KORAT ENERGY CO., LTD. **EMISSION TEST RESULT**

Run # : 3
 Date: June 20, 2024
 Start time: 4:22 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas
 Location : GEG Stack 1
 Finish time : 4:42 PM
 Serial No.: 071023-47
 Serial No.: 433
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
4:22 PM	11.50	26.48	0.42
4:23 PM	11.51	26.23	0.45
4:24 PM	11.50	26.34	0.44
4:25 PM	11.50	26.14	0.43
4:26 PM	11.50	25.91	0.38
4:27 PM	11.50	26.43	0.41
4:28 PM	11.49	26.16	0.43
4:29 PM	11.51	25.98	0.44
4:30 PM	11.49	25.96	0.40
4:31 PM	11.50	25.61	0.39
4:32 PM	11.50	25.62	0.38
4:33 PM	11.50	25.26	0.42
4:34 PM	11.50	25.50	0.37
4:35 PM	11.50	25.93	0.38
4:36 PM	11.49	26.23	0.38
4:37 PM	11.50	27.14	0.39
4:38 PM	11.50	26.97	0.40
4:39 PM	11.50	26.69	0.36
4:40 PM	11.51	26.35	0.38
4:41 PM	11.51	25.74	0.41
4:42 PM	11.50	26.25	0.38
Average	11.50	26.14	0.40

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



บริษัท ซีคอต จำกัด

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REF. NO. : REN (Oper)224046_Cert-Stack/
 R E N Korat Energy TSP_Jun 24
 SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/06/2024
 RECEIVED DATE : 22/06/2024 ANALYTICAL DATE : 22-24/06/2024
 REPORT DATE : 27/06/2024 SAMPLE CONDITION : Normal
 SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
 OPERATOR : Mr. Kittipong Thakoengsuk STACK LOCATION : GEG Stack 3

STACK DESCRIPTION

Height : 25.0 m Flow Rate* : 639 Ncu.m/min
 Diameter : 1.35 m Excess Oxygen : 11.6 %
 Temperature : 305.4 °C Moisture Content : 9.9 %
 Gas Velocity : 16.1 m/s

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE
		11.6%O ₂	7%O ₂	7%O ₂	METHODS
Total Suspended Particulate	mg/Ncu.m.	4.01	5.97	20	US. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO. 7-239-0-0021

Narisa Poowanapetch

(Miss Narisa Poowanapetch)

Technical Management Team

REG.NO. 7-239-0-0010

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

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

4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REF. NO. : REN (Oper)224046_Cert-Stack/
R E N Korat Energy PM-10_Jun 24
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/06/2024
RECEIVED DATE : 22/06/2024 ANALYTICAL DATE : 22-24/06/2024
REPORT DATE : 27/06/2024 SAMPLE CONDITION : Normal
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
OPERATOR : Mr. Kittipong Thakoengsuk STACK LOCATION : GEG Stack 3

STACK DESCRIPTION

Height : 25.0 m Flow Rate* : 639 Neu.m/min
Diameter : 1.35 m Excess Oxygen : 11.6 %
Temperature : 305.4 °C Moisture Content : 9.9 %
Gas Velocity : 16.1 m/s

PARAMETER	UNIT	RESULTS*		STANDARDS	REFERENCE METHODS
		11.6%O ₂	7%O ₂	7%O ₂	
Particulate matter less than 10 microns	mg/Neu.m.	2.21	3.29	-	US. EPA Method 201A

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.7-239-0-0021

Narisa Poowasanpeth

(Miss Narisa Poowasanpeth)

Technical Management Team

REG.NO.7-239-0-0010

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

4. - Standard is not specified.



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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 : R E N Korat Energy Co., Ltd. REF. NO. : REN (Oper)224046_Cert-Stack/
R E N Korat Energy CEMS_Jun 24
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/06/2024
RECEIVED DATE : 24/06/2024 ANALYTICAL DATE : 25/06/2024-04/07/2024
REPORT DATE : 05/07/2024 SAMPLE CONDITION : Normal
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
OPERATOR : Mr. Kittipong Thakoengsuk STACK LOCATION : GEG Stack 3

STACK DESCRIPTION

Height : 25.0 m Flow Rate* : 639 Neu.m/min
Diameter : 1.35 m Excess Oxygen : 11.6 %
Temperature : 305.4 °C Moisture Content : 9.9 %
Gas Velocity : 16.1 m/s

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE METHODS
		11.6%O ₂	7%O ₂	7%O ₂	
Sulfur Dioxide	ppm	0.58	0.87	15	US. EPA Method 6C
Oxides of Nitrogen	ppm	27.15	40.40	80	US. EPA Method 7E

Katesarin Vorradetwittaya

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Preecha S.

(Miss Preecha Somjai)

Technical Management Team

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

4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.

**The Monitoring Result of Emission Concentration
GEG Stack 3
R E N KORAT ENERGY CO., LTD.
June 21, 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	11.51	11.54	26.35	26.33	39.10
2	11.53	11.57	27.14	27.12	40.40
3	11.53	11.57	28.01	27.99	41.70
Average	11.52	11.56	27.17	27.15	40.40

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	11.51	11.54	0.54	0.47	0.70
2	11.53	11.57	0.68	0.62	0.92
3	11.53	11.57	0.72	0.66	0.98
Average	11.52	11.56	0.65	0.58	0.87

**R E N KORAT ENERGY CO., LTD.
EMISSION TEST RESULT**

Date: June 21, 2024
 Start time: 11:30 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : GEG Stack 3
 Finish time : 11:50 AM
 Serial No.: 071023-47
 Serial No.: 433
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:30 AM	11.51	27.64	0.46
11:31 AM	11.50	27.41	0.51
11:32 AM	11.50	27.02	0.47
11:33 AM	11.49	27.05	0.52
11:34 AM	11.49	28.01	0.52
11:35 AM	11.51	28.53	0.51
11:36 AM	11.52	26.97	0.48
11:37 AM	11.51	25.23	0.50
11:38 AM	11.50	25.58	0.54
11:39 AM	11.51	25.74	0.56
11:40 AM	11.50	25.91	0.56
11:41 AM	11.51	25.94	0.54
11:42 AM	11.54	24.96	0.55
11:43 AM	11.51	25.02	0.52
11:44 AM	11.51	25.35	0.57
11:45 AM	11.55	24.99	0.53
11:46 AM	11.52	25.29	0.56
11:47 AM	11.50	26.15	0.58
11:48 AM	11.51	26.59	0.61
11:49 AM	11.51	26.82	0.61
11:50 AM	11.53	27.08	0.70
Average	11.51	26.35	0.54

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Date: June 21, 2024
Start time: 11:51 AM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 2
Location : GEG Stack 3
Finish time : 12:11 PM
Serial No.: 071023-47
Serial No.: 433
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:51 AM	11.55	26.98	0.66
11:52 AM	11.53	26.38	0.67
11:53 AM	11.54	26.05	0.66
11:54 AM	11.54	26.09	0.63
11:55 AM	11.54	26.74	0.65
11:56 AM	11.51	27.48	0.71
11:57 AM	11.55	26.46	0.69
11:58 AM	11.52	27.51	0.73
11:59 AM	11.50	27.92	0.70
12:00 PM	11.54	27.61	0.71
12:01 PM	11.50	28.14	0.66
12:02 PM	11.54	28.73	0.68
12:03 PM	11.54	26.81	0.64
12:04 PM	11.54	26.71	0.70
12:05 PM	11.53	27.64	0.71
12:06 PM	11.50	28.60	0.72
12:07 PM	11.53	27.83	0.70
12:08 PM	11.52	27.95	0.66
12:09 PM	11.55	26.28	0.66
12:10 PM	11.52	26.24	0.66
12:11 PM	11.54	25.82	0.65
Average	11.53	27.14	0.68

Signature 

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Date: June 21, 2024
Start time: 12:12 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas

Run # : 3
Location : GEG Stack 3
Finish time : 12:32 PM
Serial No.: 071023-47
Serial No.: 433
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
12:12 PM	11.53	26.07	0.65
12:13 PM	11.52	26.54	0.71
12:14 PM	11.49	28.88	0.69
12:15 PM	11.51	28.33	0.67
12:16 PM	11.52	28.18	0.68
12:17 PM	11.52	28.54	0.68
12:18 PM	11.51	29.25	0.73
12:19 PM	11.52	28.98	0.72
12:20 PM	11.52	29.07	0.76
12:21 PM	11.52	28.72	0.76
12:22 PM	11.56	26.59	0.73
12:23 PM	11.55	26.19	0.73
12:24 PM	11.54	26.04	0.72
12:25 PM	11.54	27.17	0.73
12:26 PM	11.54	27.12	0.72
12:27 PM	11.51	27.21	0.73
12:28 PM	11.54	27.63	0.73
12:29 PM	11.54	27.62	0.73
12:30 PM	11.51	30.25	0.74
12:31 PM	11.53	30.54	0.78
12:32 PM	11.53	29.30	0.77
Average	11.53	28.01	0.72

Signature 

(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy Power Plant		TSP_Dec 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 03/12/2024
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 09-10/12/2024
REPORT DATE	: 17/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 2

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 487	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.0	%
Temperature	: 325.1	°C	Moisture Content	: 13.8	%
Gas Velocity	: 13.3	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE METHODS
		12.0%O ₂	7%O ₂	7%O ₂	
Total Suspended Particulate	mg/Ncu.m.	2.27	3.53	20	US. EPA Method 5

Pornapa Budthum

(Miss Pornapa Budthum)

Analyst

REG.NO. 2-239-0-0018

Narisa Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

REG.NO. 2-239-0-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy Power Plant		PM-10_Dec 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 03/12/2024
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 09-10/12/2024
REPORT DATE	: 17/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 2

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 487	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.0	%
Temperature	: 325.1	°C	Moisture Content	: 13.8	%
Gas Velocity	: 13.3	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS	REFERENCE METHODS
		12.0%O ₂	7%O ₂	7%O ₂	
Particulate matter less than 10 microns	mg/Ncu.m.	1.46	2.27	-	US. EPA Method 210A

Pornapa Budthum

(Miss Pornapa Budthum)

Analyst

Narisa Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy		CEMS_Dec 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 03/12/2024
RECEIVED DATE	: 11/12/2024	ANALYTICAL DATE	: 13-15/12/2024
REPORT DATE	: 16/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 2

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 487	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.0	%
Temperature	: 325.1	°C	Moisture Content	: 13.8	%
Gas Velocity	: 13.3	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE METHODS
		12.0%O ₂	7%O ₂	7%O ₂	
Sulfur Dioxide	ppm	1.22	1.90	15	US. EPA Method 6C
Oxides of Nitrogen	ppm	26.82	41.67	80	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Preeda Somjai)

Technical Management Team

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The Monitoring Result of Emission Concentration

GEG Stack 2

R E N KORAT ENERGY CO., LTD.

December 3, 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	12.03	11.98	26.46	26.44	41.20
2	12.02	11.95	27.25	27.23	42.29
3	12.02	11.93	26.82	26.80	41.53
Average	12.02	11.95	26.84	26.82	41.67

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	12.03	11.98	1.12	1.09	1.70
2	12.02	11.95	1.27	1.23	1.91
3	12.02	11.93	1.38	1.34	2.08
Average	12.02	11.95	1.25	1.22	1.90

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 1
Date: December 3, 2024
Start time: 1:50 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : GEG Stack 2
Finish time : 2:10 PM
Serial No.: 121121-10
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
1:50 PM	11.98	25.70	1.07
1:51 PM	12.02	26.35	1.06
1:52 PM	12.00	28.31	1.06
1:53 PM	12.02	28.34	1.08
1:54 PM	12.02	28.20	1.08
1:55 PM	12.02	28.77	1.10
1:56 PM	12.03	27.99	1.11
1:57 PM	12.04	28.41	1.10
1:58 PM	12.02	27.57	1.09
1:59 PM	12.02	26.88	1.11
2:00 PM	12.08	25.11	1.11
2:01 PM	12.00	26.13	1.17
2:02 PM	12.06	23.42	1.12
2:03 PM	11.99	25.16	1.14
2:04 PM	12.07	22.90	1.13
2:05 PM	12.03	23.74	1.12
2:06 PM	12.01	26.08	1.16
2:07 PM	12.01	26.70	1.15
2:08 PM	12.04	26.68	1.17
2:09 PM	12.04	26.43	1.16
2:10 PM	12.04	26.78	1.19
Average	12.03	26.46	1.12

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 2
Date: December 3, 2024
Start time: 2:11 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: Teledyne 200 EM
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : GEG Stack 2
Finish time : 2:31 PM
Serial No.: 121121-10
Serial No.: 433
Serial No.: 118
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:11 PM	12.01	28.62	1.20
2:12 PM	12.05	26.58	1.22
2:13 PM	12.01	27.07	1.22
2:14 PM	12.02	27.49	1.25
2:15 PM	12.01	27.40	1.22
2:16 PM	12.05	25.97	1.23
2:17 PM	12.04	26.71	1.23
2:18 PM	12.02	27.49	1.23
2:19 PM	12.03	27.98	1.23
2:20 PM	12.05	27.22	1.28
2:21 PM	12.01	26.21	1.33
2:22 PM	12.06	25.61	1.30
2:23 PM	12.01	27.39	1.28
2:24 PM	11.99	27.29	1.30
2:25 PM	12.04	26.88	1.27
2:26 PM	12.01	28.15	1.24
2:27 PM	12.02	28.13	1.30
2:28 PM	12.01	28.91	1.33
2:29 PM	12.01	28.36	1.30
2:30 PM	12.03	27.08	1.32
2:31 PM	12.04	25.76	1.32
Average	12.02	27.25	1.27

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 3

Date: December 3, 2024
 Start time: 2:32 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: Teledyne 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : GEG Stack 2
 Finish time : 2:52 PM
 Serial No.: 121121-10
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
2:32 PM	12.00	28.07	1.32
2:33 PM	12.01	27.96	1.33
2:34 PM	12.02	27.23	1.34
2:35 PM	12.00	27.30	1.35
2:36 PM	12.04	26.21	1.36
2:37 PM	12.02	26.16	1.34
2:38 PM	12.03	26.45	1.36
2:39 PM	12.00	26.53	1.37
2:40 PM	12.03	26.57	1.35
2:41 PM	11.99	26.71	1.38
2:42 PM	12.05	25.34	1.36
2:43 PM	12.01	26.12	1.38
2:44 PM	12.01	26.53	1.38
2:45 PM	12.01	27.10	1.39
2:46 PM	12.04	26.98	1.41
2:47 PM	12.01	27.37	1.42
2:48 PM	12.04	26.45	1.40
2:49 PM	12.02	26.21	1.40
2:50 PM	12.03	26.31	1.42
2:51 PM	12.01	27.68	1.41
2:52 PM	12.02	27.90	1.44
Average	12.02	26.82	1.38

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REF. NO. : REN (Oper)224046_Cert-Stack/
 R E N Korat Energy Power Plant TSP_Dec 24
 SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 03/12/2024
 RECEIVED DATE : 07/12/2024 ANALYTICAL DATE : 09-10/12/2024
 REPORT DATE : 17/12/2024 SAMPLE CONDITION : Normal
 SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas
 OPERATOR : Mr. Kittipong Thakoengsuk STACK LOCATION : GEG Stack 3

STACK DESCRIPTION

Height : 25.0 m Flow Rate* : 506 Ncu.m/min
 Diameter : 1.35 m Excess Oxygen : 12.3 %
 Temperature : 340.4 °C Moisture Content : 11.5 %
 Gas Velocity : 13.8 m/s

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE
		12.3%O ₂	7%O ₂	7%O ₂	METHODS
Total Suspended Particulate	mg/Ncu.m.	2.49	4.02	20	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 mmHg and temperature of 25 °C, dry basis.

4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.

4. - Standard is not specified.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy Power Plant		PM-10_Dec 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 03/12/2024
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 09-10/12/2024
REPORT DATE	: 17/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 3

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 506	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.3	%
Temperature	: 340.4	°C	Moisture Content	: 11.5	%
Gas Velocity	: 13.8	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS	REFERENCE
		12.3%O ₂	7%O ₂	7%O ₂	METHODS
Particulate matter	mg/Ncu.m.	1.46	2.36	-	US. EPA Method 201A
less than 10 microns					

Bongpa Puthum

(Miss Pornnapa Budthum)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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

4. - Standard is not specified.



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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	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/
	R E N Korat Energy		CEMS_Dec 24
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 03/12/2024
RECEIVED DATE	: 11/12/2024	ANALYTICAL DATE	: 13-15/12/2024
REPORT DATE	: 16/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 3

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 506	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.3	%
Temperature	: 340.4	°C	Moisture Content	: 11.5	%
Gas Velocity	: 13.8	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE
		12.3%O ₂	7%O ₂	7%O ₂	METHODS
Sulfur Dioxide	ppm	0.01	0.01	15	US. EPA Method 6C
Oxides of Nitrogen	ppm	25.33	40.98	80	US. EPA Method 7E

Katesarin Vorradetwittaya

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

Preeda S.

(Miss Preeda Somjai)

Technical Management Team

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

4. ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E.2566.

The Monitoring Result of Emission Concentration
GEG Stack 3
R E N KORAT ENERGY CO., LTD.
December 3, 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	12.38	12.31	25.50	25.48	41.23
2	12.39	12.32	24.99	24.97	40.45
3	12.36	12.30	25.55	25.53	41.26
Average	12.38	12.31	25.34	25.33	40.98

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	12.38	12.31	0.02	0.01	0.02
2	12.39	12.32	0.02	0.01	0.02
3	12.36	12.30	0.01	0.00	0.00
Average	12.38	12.31	0.02	0.01	0.01

R E N KORAT ENERGY CO., LTD.
EMISSION TEST RESULT

Date: December 3, 2024
 Start time: 5:00 PM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: API 200 AH
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Run # : 1
 Location : GEG Stack 3
 Finish time : 5:20 PM
 Serial No.: 121121-10
 Serial No.: 441
 Serial No.: 060
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
5:00 PM	12.37	24.19	0.03
5:01 PM	12.39	26.28	0.03
5:02 PM	12.41	26.42	0.04
5:03 PM	12.37	26.24	0.02
5:04 PM	12.36	26.40	0.00
5:05 PM	12.40	25.36	0.02
5:06 PM	12.36	25.32	0.04
5:07 PM	12.38	24.55	0.03
5:08 PM	12.35	25.15	0.03
5:09 PM	12.42	24.63	0.02
5:10 PM	12.35	24.54	0.02
5:11 PM	12.37	25.98	0.02
5:12 PM	12.37	25.58	0.01
5:13 PM	12.39	25.83	0.03
5:14 PM	12.37	25.52	0.04
5:15 PM	12.39	25.57	0.03
5:16 PM	12.37	25.30	0.01
5:17 PM	12.41	25.34	0.03
5:18 PM	12.41	26.48	0.02
5:19 PM	12.42	25.57	0.03
5:20 PM	12.42	25.23	0.01
Average	12.38	25.50	0.02

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 2
Date: December 3, 2024
Start time: 5:21 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : GEG Stack 3
Finish time : 5:41 PM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
5:21 PM	12.35	23.81	0.02
5:22 PM	12.40	25.12	0.04
5:23 PM	12.41	25.00	0.02
5:24 PM	12.38	24.80	0.00
5:25 PM	12.39	24.73	0.01
5:26 PM	12.38	25.77	0.01
5:27 PM	12.41	24.91	0.03
5:28 PM	12.38	24.78	0.04
5:29 PM	12.39	25.29	0.01
5:30 PM	12.40	24.62	0.01
5:31 PM	12.39	24.27	0.03
5:32 PM	12.39	23.93	0.03
5:33 PM	12.38	24.68	0.01
5:34 PM	12.41	25.06	0.02
5:35 PM	12.38	26.09	0.01
5:36 PM	12.42	25.87	0.02
5:37 PM	12.37	26.28	0.03
5:38 PM	12.39	25.51	0.04
5:39 PM	12.39	25.76	0.01
5:40 PM	12.38	24.32	0.00
5:41 PM	12.35	24.11	0.01
Average	12.39	24.99	0.02

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 3
Date: December 3, 2024
Start time: 5:42 PM
O₂ instrument Model: AMI 70
NO_x instrument Model: API 200 AH
SO₂ instrument Model: API 100 AH
Fuel Type : Natural Gas
Location : GEG Stack 3
Finish time : 6:02 PM
Serial No.: 121121-10
Serial No.: 441
Serial No.: 060
Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
5:42 PM	12.39	24.21	0.01
5:43 PM	12.38	24.34	0.01
5:44 PM	12.35	25.54	0.00
5:45 PM	12.39	25.27	0.01
5:46 PM	12.35	24.40	0.03
5:47 PM	12.35	28.19	0.02
5:48 PM	12.40	25.11	0.00
5:49 PM	12.34	25.24	0.00
5:50 PM	12.36	25.15	0.00
5:51 PM	12.35	25.25	0.01
5:52 PM	12.36	25.61	0.02
5:53 PM	12.38	25.31	0.01
5:54 PM	12.34	24.67	0.02
5:55 PM	12.35	26.44	0.00
5:56 PM	12.36	26.02	0.02
5:57 PM	12.37	26.36	0.00
5:58 PM	12.36	25.01	0.01
5:59 PM	12.37	24.69	0.00
6:00 PM	12.35	26.49	0.02
6:01 PM	12.38	27.01	0.02
6:02 PM	12.34	26.18	0.01
Average	12.36	25.55	0.01

Signature 
 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/ R E N Korat Energy Power Plant
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04/12/2024
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 09-10/12/2024
REPORT DATE	: 17/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 4

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 600	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.3	%
Temperature	: 325.9	°C	Moisture Content	: 12.4	%
Gas Velocity	: 16.1	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE
		12.3%O ₂	7%O ₂	7%O ₂	METHODS
Total Suspended Particulate	mg/Ncu.m.	2.79	4.48	20	US. EPA Method 5

Benapa Puthum

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-0-0018

Naris Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

REG.NO.7-239-0-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/ R E N Korat Energy Power Plant
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04/12/2024
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 09-10/12/2024
REPORT DATE	: 17/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 4

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 600	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.3	%
Temperature	: 325.9	°C	Moisture Content	: 12.4	%
Gas Velocity	: 16.1	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS	REFERENCE
		12.3%O ₂	7%O ₂	7%O ₂	METHODS
Particulate matter less than 10 microns	mg/Ncu.m.	1.28	2.06	-	US. EPA Method 201A

Benapa Puthum

(Miss Pornnapa Budthum)

Analyst

Naris Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REF. NO.	: REN (Oper)224046_Cert-Stack/ R E N Korat Energy
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 04/12/2024
RECEIVED DATE	: 11/12/2024	ANALYTICAL DATE	: 13-15/12/2024
REPORT DATE	: 16/12/2024	SAMPLE CONDITION	: Normal
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
OPERATOR	: Mr. Kittipong Thakoengsuk	STACK LOCATION	: GEG Stack 4

STACK DESCRIPTION

Height	: 25.0	m	Flow Rate*	: 600	Ncu.m/min
Diameter	: 1.35	m	Excess Oxygen	: 12.3	%
Temperature	: 325.9	°C	Moisture Content	: 12.4	%
Gas Velocity	: 16.1	m/s			

PARAMETER	UNIT	RESULTS*		STANDARDS ^{1/}	REFERENCE METHODS
		12.3%O ₂	7%O ₂	7%O ₂	
Sulfur Dioxide	ppm	0.14	0.22	15	US. EPA Method 6C
Oxides of Nitrogen	ppm	30.05	48.29	80	US. EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Preeda Somjai)

Technical Management Team

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The Monitoring Result of Emission Concentration

GEG Stack 4

R E N KORAT ENERGY CO., LTD.

December 4, 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	12.27	12.27	30.96	30.94	49.83
2	12.26	12.25	29.52	29.50	47.40
3	12.24	12.23	29.73	29.71	47.63
Average	12.26	12.25	30.07	30.05	48.29

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	12.27	12.27	0.17	0.13	0.21
2	12.26	12.25	0.18	0.14	0.22
3	12.24	12.23	0.18	0.14	0.22
Average	12.26	12.25	0.18	0.14	0.22

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 1

Date: December 4, 2024
 Start time: 11:00 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYNE 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : GEG Stack 4
 Finish time : 11:20 AM
 Serial No.: 121121-10
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:00 AM	12.32	27.83	0.15
11:01 AM	12.29	27.85	0.17
11:02 AM	12.22	29.60	0.18
11:03 AM	12.30	35.21	0.17
11:04 AM	12.32	33.08	0.17
11:05 AM	12.33	28.33	0.18
11:06 AM	12.30	27.26	0.15
11:07 AM	12.23	28.15	0.18
11:08 AM	12.20	31.02	0.17
11:09 AM	12.35	34.52	0.18
11:10 AM	12.20	30.13	0.15
11:11 AM	12.27	33.23	0.15
11:12 AM	12.26	32.95	0.17
11:13 AM	12.25	30.88	0.20
11:14 AM	12.26	31.55	0.18
11:15 AM	12.25	31.18	0.17
11:16 AM	12.26	30.34	0.18
11:17 AM	12.23	31.55	0.18
11:18 AM	12.28	34.34	0.17
11:19 AM	12.30	31.53	0.18
11:20 AM	12.26	29.66	0.17
Average	12.27	30.96	0.17

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD. EMISSION TEST RESULT

Run # : 2

Date: December 4, 2024
 Start time: 11:21 AM
 O₂ instrument Model: AMI 70
 NO_x instrument Model: TELEDYNE 200 EM
 SO₂ instrument Model: API 100 AH
 Fuel Type : Natural Gas

Location : GEG Stack 4
 Finish time : 11:41 AM
 Serial No.: 121121-10
 Serial No.: 433
 Serial No.: 118
 Test Operator : Kittipong T.

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:21 AM	12.22	30.86	0.18
11:22 AM	12.31	33.76	0.21
11:23 AM	12.30	30.87	0.19
11:24 AM	12.32	28.43	0.19
11:25 AM	12.30	28.61	0.19
11:26 AM	12.29	27.19	0.18
11:27 AM	12.28	27.21	0.18
11:28 AM	12.23	27.33	0.17
11:29 AM	12.24	28.51	0.18
11:30 AM	12.25	33.50	0.16
11:31 AM	12.26	31.60	0.18
11:32 AM	12.27	30.47	0.17
11:33 AM	12.28	29.62	0.17
11:34 AM	12.21	28.01	0.17
11:35 AM	12.22	31.23	0.20
11:36 AM	12.26	31.57	0.18
11:37 AM	12.29	29.89	0.19
11:38 AM	12.26	27.23	0.20
11:39 AM	12.23	27.00	0.20
11:40 AM	12.28	28.65	0.20
11:41 AM	12.22	28.43	0.17
Average	12.26	29.52	0.18

Signature



(Miss Katesarin Vorradetwittaya)

Environmental Scientist

R E N KORAT ENERGY CO., LTD.

EMISSION TEST RESULT

Date: December 4, 2024 Start time: 11:42 AM O₂ instrument Model: AMI 70 NO_x instrument Model: TELEDYNE 200 EM SO₂ instrument Model: API 100 AH Fuel Type : Natural Gas	Run # : 3 Location : GEG Stack 4 Finish time : 12:02 PM Serial No.: 121121-10 Serial No.: 433 Serial No.: 118 Test Operator : Kittipong T.
--	---

Time, min	O ₂ (%)	NO _x (ppm)	SO ₂ (ppm)
11:42 AM	12.21	29.11	0.19
11:43 AM	12.21	29.41	0.18
11:44 AM	12.29	31.57	0.18
11:45 AM	12.26	30.25	0.17
11:46 AM	12.22	28.34	0.16
11:47 AM	12.27	30.82	0.18
11:48 AM	12.26	31.16	0.19
11:49 AM	12.25	29.02	0.16
11:50 AM	12.24	29.57	0.18
11:51 AM	12.25	29.72	0.19
11:52 AM	12.27	30.96	0.18
11:53 AM	12.22	29.41	0.19
11:54 AM	12.23	29.33	0.21
11:55 AM	12.25	29.62	0.19
11:56 AM	12.22	29.45	0.17
11:57 AM	12.24	31.40	0.16
11:58 AM	12.28	30.55	0.17
11:59 AM	12.20	27.62	0.19
12:00 PM	12.24	27.98	0.19
12:01 PM	12.26	30.21	0.19
12:02 PM	12.18	28.84	0.17
Average	12.24	29.73	0.18

Signature 

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

ภาคผนวก ง.3

ใบรับรองผลการตรวจวัดระดับเสียงโดยทั่วไป



Noise Monitoring Result : Community Noise MTR-REN Operation

Location : West Fence				Monitor Period : 20-27 Jun 2024			
SLM Model : Cirrus CR162B				Serial No : G300769			
Site Operator : Mr. Sittichai Sawangwongchai							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 04 Sep 2023			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 03 Sep 2024			
Cal Sheet No.: CR-515-2024-185							
Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
14:00 - 15:00	52.9	50.7	50.4	51.8	53.1	52.9	58.7
15:00 - 16:00	51.6	52.5	52.8	50.9	52.0	68.0	57.4
16:00 - 17:00	55.1	54.2	55.4	49.5	61.4	62.3	56.1
17:00 - 18:00	52.6	51.7	52.4	62.0	53.7	53.2	53.8
18:00 - 19:00	52.1	52.5	52.8	61.0	50.7	51.6	50.3
19:00 - 20:00	52.3	50.6	55.8	51.9	50.0	49.5	50.0
20:00 - 21:00	51.5	50.7	64.0	53.7	49.1	49.0	49.4
21:00 - 22:00	50.6	55.6	60.3	56.3	50.9	48.5	50.6
22:00 - 23:00	50.3	50.4	53.8	53.6	51.1	50.1	49.0
23:00 - 00:00	51.6	50.2	51.4	53.8	51.5	49.4	51.9
00:00 - 01:00	51.5	50.5	51.3	52.0	50.8	50.8	49.6
01:00 - 02:00	50.8	50.3	51.7	51.8	50.2	48.6	48.4
02:00 - 03:00	50.7	50.0	53.0	51.1	48.5	49.0	48.7
03:00 - 04:00	51.2	50.2	53.4	50.7	48.3	53.2	48.7
04:00 - 05:00	51.3	50.1	52.6	51.1	51.0	49.7	48.9
05:00 - 06:00	53.1	52.2	55.2	53.1	52.6	52.7	52.4
06:00 - 07:00	53.8	52.9	53.1	52.5	52.1	51.2	53.0
07:00 - 08:00	57.6	57.7	53.2	57.6	54.6	53.7	54.2
08:00 - 09:00	53.2	53.6	53.2	53.1	55.8	51.5	54.7
09:00 - 10:00	56.8	55.6	52.2	53.6	49.9	55.5	59.4
10:00 - 11:00	55.8	51.4	50.8	53.6	51.7	54.6	66.8
11:00 - 12:00	51.5	53.0	53.6	51.0	55.9	52.0	61.9
12:00 - 13:00	51.3	52.6	52.7	49.9	49.1	49.9	59.5
13:00 - 14:00	52.6	50.9	52.3	50.4	51.0	63.3	58.4
Leq(24)*	53.1	52.6	55.3	54.7	53.2	57.4	57.2
Ldn	58.5	57.8	60.0	59.4	57.9	59.8	59.5
Lmax **	81.9	84.9	82.2	84.2	86.8	87.8	84.8
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(Miss Preeda Somjai)
Technical Management Team

Noise Monitoring Result : Background Noise MTR-REN Operation

Location : West Fence				Monitor Period : 20-27 Jun 2024			
SLM Model : Cirrus CR162B				Serial No : G300769			
Site Operator : Mr. Sittichai Sawangwongchai							
Calibrator Model : Cirrus CR:515				Serial No : 97097			
Calibration Ref dB(A) : 94.0				Certified Date : 04 Sep 2023			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 03 Sep 2024			
Cal Sheet No.: CR-515-2024-185							
Time	L90 (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
14:00 – 15:00	50.0	47.3	47.6	49.3	47.0	45.9	47.0
15:00 – 16:00	48.9	46.8	48.5	47.9	47.7	46.6	47.8
16:00 – 17:00	48.5	47.2	50.0	46.8	47.5	47.1	49.1
17:00 – 18:00	49.0	47.3	49.3	47.0	49.0	47.6	48.9
18:00 – 19:00	49.1	47.9	50.2	51.1	48.6	48.7	48.4
19:00 – 20:00	49.2	48.6	49.6	50.0	47.9	48.0	48.5
20:00 – 21:00	49.6	49.1	53.2	49.6	47.8	47.3	48.1
21:00 – 22:00	49.4	49.1	50.3	52.2	48.4	47.4	47.9
22:00 – 23:00	48.6	49.4	52.0	52.5	48.9	47.3	48.3
23:00 – 00:00	49.3	49.0	50.3	51.7	49.1	47.4	48.5
00:00 – 01:00	49.6	49.3	50.5	50.7	48.5	48.1	48.0
01:00 – 02:00	49.5	49.5	50.4	50.7	47.9	47.7	48.0
02:00 – 03:00	49.4	49.5	51.1	50.0	47.8	48.0	48.1
03:00 – 04:00	49.7	49.6	51.4	49.8	47.8	48.8	47.9
04:00 – 05:00	49.8	49.2	50.6	50.0	47.8	48.3	47.8
05:00 – 06:00	50.7	49.5	50.4	49.2	48.2	48.5	48.4
06:00 – 07:00	50.0	49.8	50.6	48.8	48.8	48.4	48.9
07:00 – 08:00	49.8	50.4	50.9	49.7	48.3	48.2	48.3
08:00 – 09:00	49.5	49.8	50.5	48.2	47.2	47.4	48.8
09:00 – 10:00	50.1	49.2	49.7	47.6	46.2	46.7	51.8
10:00 – 11:00	46.8	48.9	49.3	46.7	47.9	48.2	59.9
11:00 – 12:00	46.3	49.1	50.7	46.5	47.4	47.5	57.1
12:00 – 13:00	46.3	49.3	50.5	46.7	46.0	47.1	50.1
13:00 – 14:00	47.4	48.3	50.7	46.3	45.6	48.3	54.7
L90(avg)*	49.2	49.0	50.5	49.5	47.9	47.7	51.4

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-REN Operation

Location : East Fence Monitor Period : 20-27 Jun 2024
SLM Model : Cirrus CR162B Serial No : G300833
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-185

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
13:00 - 14:00	58.5	52.1	54.6	58.1	56.8	53.7	60.1
14:00 - 15:00	54.9	52.2	54.8	56.9	56.4	53.7	59.5
15:00 - 16:00	55.0	58.0	57.1	53.9	56.2	54.4	58.2
16:00 - 17:00	55.5	55.7	56.8	54.1	63.4	56.6	58.2
17:00 - 18:00	56.3	55.4	56.8	66.1	57.6	56.9	58.3
18:00 - 19:00	55.5	55.3	56.6	64.5	56.1	56.3	57.7
19:00 - 20:00	55.8	55.4	58.9	57.1	56.7	56.1	57.9
20:00 - 21:00	55.7	55.4	62.2	57.9	56.2	55.8	57.9
21:00 - 22:00	55.7	55.5	58.5	60.1	56.3	55.7	57.8
22:00 - 23:00	55.9	56.1	59.3	59.8	56.2	55.9	57.8
23:00 - 00:00	55.8	56.2	58.5	58.5	56.3	55.7	57.7
00:00 - 01:00	56.2	56.5	58.5	56.8	56.1	55.8	57.7
01:00 - 02:00	56.3	56.2	58.3	58.0	55.9	55.5	57.4
02:00 - 03:00	56.4	56.1	58.3	56.4	56.1	55.5	57.4
03:00 - 04:00	56.2	56.0	58.2	55.8	55.8	55.6	57.3
04:00 - 05:00	56.4	56.2	58.1	55.8	55.8	55.7	57.5
05:00 - 06:00	57.0	57.0	58.7	56.6	56.6	56.5	58.5
06:00 - 07:00	56.2	56.8	57.9	56.3	56.1	57.4	57.8
07:00 - 08:00	55.9	56.5	58.5	56.5	56.5	56.2	57.9
08:00 - 09:00	55.7	56.5	59.0	56.2	62.2	55.9	58.1
09:00 - 10:00	56.2	56.8	59.3	56.6	55.5	55.7	57.6
10:00 - 11:00	52.9	57.2	59.1	55.8	55.8	56.7	57.1
11:00 - 12:00	53.9	55.3	60.2	55.4	55.2	57.4	56.8
12:00 - 13:00	51.9	54.7	58.5	54.9	53.9	55.9	60.6
Leq(24)*	55.8	56.0	58.5	58.7	57.3	55.9	58.1
Ldn	62.6	62.7	64.9	64.1	62.8	62.4	64.2
Lmax**	79.3	85.8	89.8	80.6	76.7	83.1	79.8
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-REN Operation

Location : East Fence Monitor Period : 20-27 Jun 2024
SLM Model : Cirrus CR162B Serial No : G300833
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-185

Time	L90 (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
13:00 - 14:00	54.2	50.9	54.1	57.6	55.2	52.8	55.4
14:00 - 15:00	53.9	50.6	54.1	53.5	55.2	53.0	57.2
15:00 - 16:00	54.0	51.4	54.4	53.2	55.3	53.7	57.2
16:00 - 17:00	54.5	54.9	56.0	53.4	55.4	55.0	57.4
17:00 - 18:00	54.4	54.5	55.9	54.0	55.7	55.3	57.4
18:00 - 19:00	54.6	54.5	55.7	55.6	55.5	55.5	57.2
19:00 - 20:00	55.1	55.0	55.9	54.9	56.2	55.6	57.4
20:00 - 21:00	55.0	55.0	58.7	55.1	55.8	55.4	57.5
21:00 - 22:00	55.2	55.1	57.8	57.1	55.8	55.3	57.4
22:00 - 23:00	55.1	55.5	58.3	57.1	55.7	55.1	57.3
23:00 - 00:00	55.2	55.9	57.5	55.8	55.8	55.1	57.3
00:00 - 01:00	55.6	55.9	57.6	55.5	55.6	55.2	57.2
01:00 - 02:00	55.6	55.9	57.8	56.0	55.5	55.1	57.1
02:00 - 03:00	55.7	55.8	57.8	55.2	55.5	55.1	57.0
03:00 - 04:00	55.5	55.7	57.8	55.1	55.5	55.2	56.9
04:00 - 05:00	55.9	55.8	57.7	55.2	55.5	55.1	57.1
05:00 - 06:00	56.3	56.1	57.9	55.2	55.9	55.6	57.5
06:00 - 07:00	55.2	56.1	57.5	55.4	55.4	55.3	57.2
07:00 - 08:00	55.0	56.0	57.7	55.6	55.6	55.4	57.3
08:00 - 09:00	54.8	56.0	58.4	55.5	55.9	55.2	57.3
09:00 - 10:00	54.4	55.8	58.3	55.6	54.7	55.1	56.6
10:00 - 11:00	51.1	55.6	58.5	54.8	54.4	55.0	56.2
11:00 - 12:00	51.2	54.5	58.3	54.5	53.5	55.7	56.0
12:00 - 13:00	51.0	54.2	57.9	54.3	53.2	54.9	56.7
L90(avg)*	54.7	55.1	57.3	55.4	55.4	55.0	57.1

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-REN Operation

Location : Moo 4, Ban Nong Bon Monitor Period : 20-27 Jun 2024
 SLM Model : Cirrus CR162B Serial No : G300892
 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
 Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
 SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
 Cal Sheet No.: CR-515-2024-185

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
15:00 - 16:00	60.3	50.7	50.9	51.1	45.2	48.6	50.3
16:00 - 17:00	47.9	48.0	50.1	44.9	58.9	48.6	49.9
17:00 - 18:00	49.1	51.7	48.1	63.8	49.8	52.8	47.5
18:00 - 19:00	50.6	48.9	44.6	58.3	50.2	51.9	49.1
19:00 - 20:00	45.3	43.3	53.1	47.8	46.5	44.5	48.8
20:00 - 21:00	42.9	43.5	57.3	52.2	45.7	45.7	48.1
21:00 - 22:00	39.7	40.6	49.3	56.6	44.7	44.7	46.7
22:00 - 23:00	41.3	41.5	53.3	54.1	46.3	43.2	47.4
23:00 - 00:00	40.4	40.4	46.7	52.6	47.3	43.0	44.4
00:00 - 01:00	39.7	39.5	56.9	55.5	48.9	42.4	43.7
01:00 - 02:00	39.5	39.3	44.6	55.6	49.8	41.9	42.9
02:00 - 03:00	40.4	40.2	48.9	54.7	50.1	43.1	42.5
03:00 - 04:00	37.9	38.7	51.7	53.4	46.4	42.3	42.4
04:00 - 05:00	38.2	37.0	52.5	50.5	44.2	43.3	42.9
05:00 - 06:00	48.9	46.5	49.1	48.5	50.2	49.2	48.3
06:00 - 07:00	54.3	52.1	49.3	49.2	49.8	50.1	50.5
07:00 - 08:00	52.1	48.9	50.9	48.2	51.3	48.9	51.0
08:00 - 09:00	50.0	49.8	46.1	49.6	50.5	48.1	49.6
09:00 - 10:00	50.9	49.0	48.3	50.0	49.7	49.6	47.7
10:00 - 11:00	44.5	45.9	48.9	51.0	49.1	49.7	48.9
11:00 - 12:00	48.7	50.8	44.3	49.2	50.2	48.0	48.9
12:00 - 13:00	49.1	52.2	48.5	50.4	51.5	46.9	60.1
13:00 - 14:00	45.6	46.6	42.6	47.7	46.7	54.2	47.3
14:00 - 15:00	54.3	46.6	45.2	52.2	48.5	46.9	48.1

Leq(24)*	50.5	47.7	50.9	54.4	50.3	48.4	50.1
Ldn	54.3	52.1	58.0	60.0	55.4	52.7	53.8
Lmax **	86.4	80.2	77.0	80.9	80.0	83.2	75.2

Standard-24Hr 70 dB(A)
 Standard-Max 115 dB(A)

Remark : * Average time between 15:00-15:00

** Maximum Sound Pressure Level between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team



Noise Monitoring Result : Background Noise

MTR-REN Operation

Location : Moo 4, Ban Nong Bon Monitor Period : 20-27 Jun 2024
 SLM Model : Cirrus CR162B Serial No : G300892
 Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
 Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
 SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
 Cal Sheet No.: CR-515-2024-185

Time	L90 (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
15:00 - 16:00	41.7	42.0	39.2	36.0	37.4	39.9	40.6
16:00 - 17:00	41.7	40.4	37.5	35.7	39.6	39.3	45.0
17:00 - 18:00	41.9	43.6	38.9	39.2	41.2	38.7	41.1
18:00 - 19:00	41.0	38.9	39.5	43.7	42.0	42.4	40.1
19:00 - 20:00	38.2	37.6	37.4	43.1	43.6	42.0	43.6
20:00 - 21:00	37.7	41.2	49.8	43.4	43.8	44.1	44.1
21:00 - 22:00	37.8	39.4	41.6	51.6	42.9	42.9	45.0
22:00 - 23:00	38.2	40.5	49.1	51.5	44.1	40.7	44.6
23:00 - 00:00	38.0	39.3	40.1	50.1	43.8	42.1	42.7
00:00 - 01:00	37.9	38.7	39.8	54.0	45.0	41.2	41.3
01:00 - 02:00	38.1	38.5	38.7	54.5	46.2	39.3	40.9
02:00 - 03:00	37.7	38.4	40.5	52.8	47.5	41.8	38.6
03:00 - 04:00	36.2	37.3	48.6	51.6	41.0	41.2	38.4
04:00 - 05:00	36.0	33.8	50.0	47.2	41.3	41.8	39.7
05:00 - 06:00	37.4	38.2	40.1	44.9	42.7	44.1	40.0
06:00 - 07:00	42.2	41.4	39.9	45.3	42.4	41.8	40.2
07:00 - 08:00	42.1	39.3	39.8	42.1	42.7	41.0	39.7
08:00 - 09:00	42.9	39.1	38.1	40.5	39.8	38.4	37.6
09:00 - 10:00	43.7	38.5	38.9	39.0	43.1	37.5	36.9
10:00 - 11:00	37.9	37.4	37.4	38.8	40.2	41.5	38.0
11:00 - 12:00	39.1	38.1	36.4	37.9	39.7	38.3	38.7
12:00 - 13:00	39.6	35.5	35.5	37.7	36.8	37.4	39.1
13:00 - 14:00	38.1	35.5	35.5	37.9	38.0	40.1	36.7
14:00 - 15:00	40.1	37.4	36.6	37.1	39.0	38.7	41.3

L90(avg)*	39.9	39.3	43.2	48.0	42.6	41.1	41.3
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Remark : * Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)
 Environmental Scientist

(Miss Preeda Somjai)
 Technical Management Team



Noise Monitoring Result : Community Noise MTR-REN Operation

Location : Moo 6, Ban Na Yai Monitor Period : 20-27 Jun 2024
SLM Model : Cirrus CR162B Serial No : G300990
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-185

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
16:00 - 17:00	52.8	46.9	47.9	43.1	51.3	47.6	47.1
17:00 - 18:00	46.6	46.0	46.8	59.9	50.4	47.0	46.7
18:00 - 19:00	44.9	45.5	45.2	61.2	47.8	53.2	48.9
19:00 - 20:00	42.3	42.0	55.3	49.2	48.3	48.8	48.3
20:00 - 21:00	43.9	44.3	59.0	52.6	51.8	50.0	51.0
21:00 - 22:00	41.7	43.1	50.1	54.9	49.4	50.0	49.7
22:00 - 23:00	43.6	43.6	51.9	51.4	48.6	49.9	50.4
23:00 - 00:00	42.0	40.7	47.6	46.3	47.2	47.5	46.0
00:00 - 01:00	41.1	40.6	42.7	44.1	47.1	46.3	44.9
01:00 - 02:00	41.1	40.7	41.1	44.5	48.2	46.5	42.8
02:00 - 03:00	41.7	41.5	41.2	45.5	50.4	45.7	42.4
03:00 - 04:00	41.4	46.2	41.5	47.9	48.6	50.7	47.8
04:00 - 05:00	50.5	47.1	51.5	56.7	55.5	53.1	50.2
05:00 - 06:00	56.7	53.1	54.9	57.3	53.3	55.7	52.8
06:00 - 07:00	52.9	50.5	51.0	49.7	51.9	50.1	50.7
07:00 - 08:00	47.7	49.5	49.7	50.6	52.9	53.3	48.8
08:00 - 09:00	47.7	51.3	51.4	46.6	47.6	47.6	48.3
09:00 - 10:00	45.8	45.5	50.6	46.1	46.2	46.3	42.7
10:00 - 11:00	42.3	46.9	44.3	49.8	46.0	46.8	42.1
11:00 - 12:00	42.1	48.4	46.0	47.9	44.7	48.3	45.3
12:00 - 13:00	41.6	43.6	47.7	45.3	48.2	47.5	51.2
13:00 - 14:00	48.8	43.7	41.8	47.1	42.5	52.0	47.2
14:00 - 15:00	41.0	43.6	41.0	46.9	41.5	48.9	50.8
15:00 - 16:00	50.0	48.1	41.9	47.3	41.8	48.5	59.4

Leq(24)*	48.2	46.9	50.6	53.1	49.7	50.1	50.2
Ldn	55.9	53.6	56.4	58.7	57.2	57.0	55.6
Lmax **	78.6	72.3	82.8	78.8	77.4	85.7	78.7

Standard-24Hr 70 dB(A)
Standard-Max 115 dB(A)

Remark : * Average time between 16:00-16:00

** Maximum Sound Pressure Level between 16:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-REN Operation

Location : Moo 6, Ban Na Yai Monitor Period : 20-27 Jun 2024
SLM Model : Cirrus CR162B Serial No : G300990
Site Operator : Mr. Sittichai Sawangwongchai

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-185

Time	L90 (dB(A))						
	20-21 Jun 2024	21-22 Jun 2024	22-23 Jun 2024	23-24 Jun 2024	24-25 Jun 2024	25-26 Jun 2024	26-27 Jun 2024
16:00 - 17:00	41.5	42.5	40.0	34.7	43.7	39.5	41.7
17:00 - 18:00	41.7	42.5	40.5	37.4	40.5	39.1	40.4
18:00 - 19:00	40.3	37.0	39.0	49.8	40.1	46.8	40.7
19:00 - 20:00	40.3	37.7	39.8	46.3	45.2	47.1	45.9
20:00 - 21:00	39.5	41.3	50.8	46.3	49.3	49.3	48.1
21:00 - 22:00	39.2	40.2	44.7	52.2	47.2	48.9	47.9
22:00 - 23:00	40.0	41.1	49.1	49.3	46.7	48.4	46.4
23:00 - 00:00	39.3	39.1	42.2	43.5	46.0	46.4	44.3
00:00 - 01:00	39.5	39.3	41.7	43.0	46.1	45.0	43.3
01:00 - 02:00	39.4	38.7	38.8	43.4	46.8	44.6	41.3
02:00 - 03:00	39.5	38.5	39.2	44.6	48.3	44.3	40.9
03:00 - 04:00	38.5	36.3	39.3	46.2	47.2	42.7	43.1
04:00 - 05:00	39.0	36.9	40.5	47.1	46.3	41.7	44.2
05:00 - 06:00	44.1	42.4	44.9	47.5	44.9	44.9	45.6
06:00 - 07:00	42.6	40.4	41.0	43.4	41.1	42.4	42.2
07:00 - 08:00	41.8	41.6	38.5	42.3	41.3	40.7	40.4
08:00 - 09:00	42.0	39.3	37.5	38.0	37.6	41.0	38.9
09:00 - 10:00	38.2	38.7	36.4	36.6	38.0	37.4	35.5
10:00 - 11:00	36.7	40.2	36.3	35.7	38.8	37.8	33.5
11:00 - 12:00	36.0	42.5	41.8	36.7	36.1	44.5	30.8
12:00 - 13:00	34.7	36.9	42.0	38.2	35.6	43.9	38.0
13:00 - 14:00	34.9	34.6	34.0	43.0	33.9	43.9	36.3
14:00 - 15:00	35.6	35.6	33.3	43.4	33.1	41.5	36.5
15:00 - 16:00	37.7	38.4	34.6	43.4	33.5	40.4	42.9

L90(avg)*	39.9	39.8	42.6	45.3	44.3	44.6	43.0
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Remark : * Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise

MTR-REN Operation

Location : West Fence Monitor Period : 28 Nov 2024-05 Dec 2024
 SLM Model : SCARLET ST-21D Serial No : 820728
 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) : 93.8/0.0 Expire Date : 13 Feb 2025
 Cal Sheet No.: CR-515-2024-346

Time	Equivalent Sound Pressure Level (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
14:00 - 15:00	54.1	52.8	49.5	49.0	52.1	52.7	51.0
15:00 - 16:00	54.9	54.5	52.8	49.4	52.5	54.5	54.9
16:00 - 17:00	54.5	54.9	51.6	53.0	54.0	54.0	54.4
17:00 - 18:00	51.5	51.5	50.3	51.8	52.4	53.3	54.5
18:00 - 19:00	44.4	51.6	51.0	52.4	50.1	55.9	54.2
19:00 - 20:00	53.2	50.8	50.8	51.4	53.5	55.4	52.8
20:00 - 21:00	51.8	50.4	50.6	50.4	52.7	53.1	52.0
21:00 - 22:00	51.0	49.7	48.3	50.6	52.2	54.0	52.4
22:00 - 23:00	52.7	49.5	49.7	51.4	52.2	52.9	52.3
23:00 - 00:00	50.7	49.4	50.6	51.2	51.0	52.7	52.1
00:00 - 01:00	50.4	49.4	49.6	48.6	45.0	49.7	49.5
01:00 - 02:00	49.7	42.3	49.6	49.3	50.5	50.8	50.8
02:00 - 03:00	50.0	48.9	47.4	50.9	50.2	50.6	50.8
03:00 - 04:00	50.8	49.2	48.9	50.2	51.3	50.1	53.9
04:00 - 05:00	51.5	50.9	51.0	53.0	53.7	53.8	57.5
05:00 - 06:00	55.1	51.6	50.3	52.6	55.3	54.0	57.3
06:00 - 07:00	56.0	53.8	74.1	55.4	53.3	56.7	54.7
07:00 - 08:00	54.7	54.4	50.2	48.2	50.8	52.8	50.5
08:00 - 09:00	58.6	52.4	48.8	70.7	52.5	51.3	49.6
09:00 - 10:00	52.6	49.5	48.2	76.1	52.6	51.2	50.6
10:00 - 11:00	52.0	50.1	50.2	51.4	53.7	59.0	50.4
11:00 - 12:00	50.9	50.7	48.9	54.5	57.2	55.7	50.0
12:00 - 13:00	52.2	50.6	49.2	46.6	57.8	53.2	50.5
13:00 - 14:00	52.3	50.4	49.7	65.2	53.3	51.8	51.0

Leq(24)*	53.1	51.4	60.7	63.9	53.2	53.9	53.1
Ldn	59.0	56.9	70.4	64.7	58.8	59.6	60.3
Lmax **	86.9	86.0	94.9	94.9	81.6	87.1	81.3

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-REN Operation

Location : West Fence Monitor Period : 28 Nov 2024-05 Dec 2024
 SLM Model : SCARLET ST-21D Serial No : 820728
 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) : 93.8/0.0 Expire Date : 13 Feb 2025
 Cal Sheet No.: CR-515-2024-346

Time	L90 (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
14:00 - 15:00	49.6	49.1	47.3	47.1	49.3	50.2	49.0
15:00 - 16:00	50.0	49.9	47.7	47.4	49.6	49.7	49.7
16:00 - 17:00	50.1	49.5	48.1	49.0	50.3	50.0	50.1
17:00 - 18:00	49.8	49.9	48.4	50.2	38.2	50.1	52.1
18:00 - 19:00	32.6	50.0	48.3	50.5	37.8	53.0	52.2
19:00 - 20:00	49.5	49.7	49.0	50.6	51.9	52.7	51.4
20:00 - 21:00	49.8	49.8	49.6	49.7	51.2	51.7	51.1
21:00 - 22:00	49.5	49.0	47.5	49.5	50.3	51.9	50.9
22:00 - 23:00	48.9	49.0	47.8	50.1	50.7	51.2	51.1
23:00 - 00:00	48.8	48.8	49.0	48.6	49.7	50.1	49.5
00:00 - 01:00	48.8	48.9	48.1	47.8	31.7	49.0	48.8
01:00 - 02:00	48.5	31.1	48.4	48.4	49.4	48.9	49.6
02:00 - 03:00	48.5	48.2	32.0	49.8	49.1	48.9	48.7
03:00 - 04:00	48.4	48.4	48.2	47.8	49.5	48.9	49.5
04:00 - 05:00	48.8	48.8	48.8	47.6	50.7	51.3	52.3
05:00 - 06:00	49.4	49.0	46.5	50.1	52.1	50.3	53.5
06:00 - 07:00	49.6	48.1	47.4	49.5	34.4	49.8	49.2
07:00 - 08:00	49.7	47.8	46.9	31.7	32.7	49.0	47.7
08:00 - 09:00	50.3	47.0	46.0	47.8	49.0	49.1	47.8
09:00 - 10:00	49.7	46.6	46.5	48.5	49.8	48.7	47.9
10:00 - 11:00	48.9	46.3	46.7	48.3	50.4	49.8	48.0
11:00 - 12:00	48.6	46.8	46.9	48.4	49.9	49.4	47.8
12:00 - 13:00	49.0	47.4	46.7	31.4	50.0	49.6	48.2
13:00 - 14:00	49.0	47.4	47.1	49.0	50.1	49.0	48.7

L90(avg)*	49.1	48.5	47.6	48.7	49.3	50.3	50.1
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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-REN Operation

Location : East Fence Monitor Period : 28 Nov 2024-05 Dec 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-515-2024-347

Time	Equivalent Sound Pressure Level (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
14:00 - 15:00	56.8	55.8	54.1	53.5	56.0	56.4	55.9
15:00 - 16:00	57.2	56.5	53.9	53.7	56.0	56.1	55.3
16:00 - 17:00	58.0	56.9	54.2	55.9	56.6	56.2	56.3
17:00 - 18:00	56.3	55.1	54.6	55.6	56.4	55.8	55.6
18:00 - 19:00	56.5	56.4	54.7	56.4	57.8	56.8	56.3
19:00 - 20:00	56.2	56.2	54.7	55.7	57.4	56.7	56.5
20:00 - 21:00	55.8	55.2	54.2	56.0	56.8	55.8	56.0
21:00 - 22:00	55.4	55.1	53.8	55.8	57.0	56.2	56.3
22:00 - 23:00	55.2	54.6	53.9	55.6	56.4	56.1	56.0
23:00 - 00:00	55.0	54.3	54.0	55.5	56.2	56.0	55.8
00:00 - 01:00	55.0	54.2	53.9	55.2	55.9	55.7	55.6
01:00 - 02:00	55.1	54.0	54.1	55.1	55.9	55.6	55.8
02:00 - 03:00	54.8	54.1	54.0	55.2	56.1	55.5	55.7
03:00 - 04:00	54.6	54.3	54.2	55.2	56.3	55.4	55.4
04:00 - 05:00	54.6	54.8	54.2	54.8	56.6	55.7	55.7
05:00 - 06:00	54.6	54.8	54.8	56.1	56.7	56.0	55.9
06:00 - 07:00	55.5	54.6	54.4	56.5	57.4	56.3	55.5
07:00 - 08:00	55.7	53.9	53.3	55.5	55.6	55.5	55.2
08:00 - 09:00	55.3	53.4	53.6	55.8	56.2	55.8	54.6
09:00 - 10:00	59.7	53.7	53.2	56.3	56.3	55.6	55.1
10:00 - 11:00	55.0	53.2	53.7	56.1	61.1	59.1	55.1
11:00 - 12:00	55.5	53.7	53.6	56.0	56.2	55.4	55.1
12:00 - 13:00	55.5	53.8	53.6	55.9	56.0	55.5	55.0
13:00 - 14:00	55.4	53.8	53.5	55.8	56.0	55.7	54.9

Leq(24)*	56.0	54.8	54.0	55.6	56.8	56.1	55.6
Ldn	61.6	60.9	60.6	61.9	62.9	62.3	62.1
Lmax **	73.0	71.6	69.1	64.6	77.2	79.0	71.9

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-REN Operation

Location : East Fence Monitor Period : 28 Nov 2024-05 Dec 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-515-2024-347

Time	L90 (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
14:00 - 15:00	56.0	54.9	53.4	53.0	55.3	55.5	55.0
15:00 - 16:00	56.3	55.3	53.3	53.0	55.5	54.8	54.8
16:00 - 17:00	56.2	54.9	53.6	55.1	55.8	55.2	55.5
17:00 - 18:00	55.5	54.4	53.8	55.0	55.8	55.3	55.2
18:00 - 19:00	55.6	55.7	54.1	55.7	57.5	56.1	55.9
19:00 - 20:00	55.4	55.3	54.0	54.9	56.7	55.9	56.1
20:00 - 21:00	54.6	54.3	53.6	55.6	56.3	55.4	55.5
21:00 - 22:00	54.3	54.0	53.5	55.0	56.5	55.8	55.8
22:00 - 23:00	54.3	53.8	53.6	54.8	56.0	55.7	55.6
23:00 - 00:00	53.9	53.7	53.7	54.8	55.9	55.4	55.3
00:00 - 01:00	53.9	53.6	53.6	54.0	55.6	55.2	55.1
01:00 - 02:00	54.2	53.6	53.8	54.0	55.6	55.1	55.4
02:00 - 03:00	53.8	53.7	53.7	54.1	55.8	55.2	55.2
03:00 - 04:00	53.8	53.9	53.9	54.0	55.9	55.1	55.1
04:00 - 05:00	53.6	54.2	53.8	54.0	56.2	55.3	55.3
05:00 - 06:00	53.8	54.4	54.2	54.3	56.2	55.6	55.5
06:00 - 07:00	54.4	53.7	53.9	55.6	56.0	55.6	55.1
07:00 - 08:00	54.2	53.2	52.8	55.0	55.1	54.8	54.0
08:00 - 09:00	54.2	52.8	52.4	55.0	55.6	55.1	54.0
09:00 - 10:00	53.8	52.6	52.4	55.7	55.7	55.1	54.3
10:00 - 11:00	53.9	52.5	52.9	55.6	56.0	55.2	54.4
11:00 - 12:00	54.1	52.7	53.0	55.5	55.6	54.8	54.6
12:00 - 13:00	54.6	53.1	53.1	55.4	55.4	54.8	54.5
13:00 - 14:00	54.7	53.2	53.0	55.3	55.3	54.8	54.3

L90(avg)*	54.6	54.0	53.5	54.8	55.9	55.3	55.1
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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-REN Operation

Location : Moo 4, Ban Nong Bon	Monitor Period : 28 Nov 2024-05 Dec 2024
SLM Model : Cirrus CR162B	Serial No : G302743
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-515-2024-347	

Time	Equivalent Sound Pressure Level (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
11:00 - 12:00	48.3	45.7	44.0	43.4	43.8	46.8	46.5
12:00 - 13:00	46.4	45.1	40.3	40.3	47.2	46.1	45.5
13:00 - 14:00	44.6	44.1	41.4	41.4	46.7	46.8	44.9
14:00 - 15:00	44.7	46.8	46.5	44.6	44.1	44.6	43.7
15:00 - 16:00	48.2	49.2	47.5	44.9	44.7	48.0	47.3
16:00 - 17:00	48.4	49.8	45.9	51.1	47.1	46.8	47.4
17:00 - 18:00	51.7	47.9	45.4	45.6	45.7	46.0	47.7
18:00 - 19:00	53.8	47.9	51.8	45.7	48.9	49.0	50.8
19:00 - 20:00	52.8	46.9	51.0	45.3	48.7	47.9	49.2
20:00 - 21:00	52.1	48.3	49.2	45.0	47.6	46.8	50.6
21:00 - 22:00	52.8	50.1	48.8	46.0	48.1	47.4	48.1
22:00 - 23:00	48.6	49.9	48.3	43.2	47.1	48.4	47.5
23:00 - 00:00	48.9	49.8	47.4	49.9	47.7	46.0	46.4
00:00 - 01:00	47.7	48.8	47.4	45.3	45.7	46.4	48.5
01:00 - 02:00	45.5	48.0	46.0	45.3	45.6	45.4	45.6
02:00 - 03:00	46.4	43.4	45.2	44.2	46.4	45.0	45.8
03:00 - 04:00	42.9	44.6	45.0	44.1	46.5	45.0	44.8
04:00 - 05:00	43.7	43.2	45.0	45.6	46.4	46.0	44.5
05:00 - 06:00	45.4	47.3	49.1	47.7	48.0	48.2	47.0
06:00 - 07:00	47.9	51.0	50.3	51.4	52.1	51.6	52.6
07:00 - 08:00	46.5	50.0	51.3	51.8	51.5	51.2	50.9
08:00 - 09:00	44.1	48.5	50.8	50.6	50.7	44.4	47.5
09:00 - 10:00	44.9	49.8	48.1	44.2	44.9	47.4	47.8
10:00 - 11:00	46.2	43.4	46.5	41.0	44.1	43.9	45.8

Leq(24)*	48.8	48.1	48.0	47.0	47.6	47.3	48.0
Ldn	53.7	54.5	54.0	53.5	54.2	53.8	54.2
Lmax **	70.8	72.3	73.8	70.7	73.6	70.8	70.9

Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

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

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-REN Operation

Location : Moo 4, Ban Nong Bon	Monitor Period : 28 Nov 2024-05 Dec 2024
SLM Model : Cirrus CR162B	Serial No : G302743
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-515-2024-347	

Time	L90 (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
11:00 - 12:00	39.2	38.7	35.6	37.7	36.2	39.0	39.6
12:00 - 13:00	39.4	39.4	36.2	36.0	37.8	38.6	40.2
13:00 - 14:00	39.0	39.2	37.0	37.4	36.5	37.7	39.3
14:00 - 15:00	39.8	40.3	38.9	36.8	39.6	39.1	38.1
15:00 - 16:00	42.7	43.1	38.7	37.6	39.1	40.4	41.7
16:00 - 17:00	43.3	42.5	39.4	42.5	40.1	40.7	40.0
17:00 - 18:00	41.2	39.9	38.3	37.9	39.3	39.6	40.9
18:00 - 19:00	51.5	45.9	50.3	43.9	47.4	47.4	49.6
19:00 - 20:00	49.4	45.3	49.9	43.9	47.0	46.5	47.6
20:00 - 21:00	48.3	45.2	42.3	44.0	46.4	45.6	49.6
21:00 - 22:00	49.7	48.3	47.9	41.3	47.0	46.4	46.5
22:00 - 23:00	45.7	48.3	47.3	42.1	45.5	46.3	46.4
23:00 - 00:00	47.0	47.5	45.8	42.0	46.1	45.0	45.6
00:00 - 01:00	44.6	46.4	46.1	43.8	45.1	45.5	45.8
01:00 - 02:00	43.9	44.4	44.3	44.5	43.6	44.2	44.6
02:00 - 03:00	42.6	41.5	43.9	43.2	45.6	44.4	44.8
03:00 - 04:00	40.8	40.1	44.2	41.0	45.6	44.3	43.9
04:00 - 05:00	40.5	41.9	43.0	43.7	45.3	42.2	42.3
05:00 - 06:00	40.5	41.2	43.2	43.5	44.5	44.1	42.6
06:00 - 07:00	39.2	44.5	43.2	47.2	46.3	45.9	46.1
07:00 - 08:00	40.2	40.3	44.4	45.5	44.7	42.7	43.1
08:00 - 09:00	38.4	41.2	42.8	43.1	44.6	40.2	41.0
09:00 - 10:00	39.8	39.9	38.8	37.0	38.0	41.8	41.0
10:00 - 11:00	40.8	35.4	38.7	35.8	38.1	37.4	37.0
L90(avg)*	44.8	43.8	44.4	42.4	44.2	43.7	44.6

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-REN Operation

Location : Moo 6, Ban Na Yai Monitor Period : 28 Nov 2024-05 Dec 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) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-347

Time	Equivalent Sound Pressure Level (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
10:00 - 11:00	48.7	49.4	46.3	48.8	47.0	46.6	57.2
11:00 - 12:00	46.9	48.6	45.1	45.0	50.2	47.2	47.5
12:00 - 13:00	46.3	46.7	45.1	44.1	39.8	55.2	43.7
13:00 - 14:00	43.3	47.7	48.5	46.0	42.6	42.8	48.4
14:00 - 15:00	44.7	48.1	49.1	47.9	44.6	44.5	44.2
15:00 - 16:00	46.3	46.3	49.6	45.2	49.5	47.9	45.4
16:00 - 17:00	47.3	47.1	53.5	47.4	43.3	51.6	48.5
17:00 - 18:00	49.6	47.9	52.6	51.1	51.0	51.8	49.9
18:00 - 19:00	51.4	51.7	50.5	52.4	52.6	51.7	51.1
19:00 - 20:00	51.3	51.6	51.4	52.8	52.8	52.1	51.6
20:00 - 21:00	51.4	51.4	50.6	51.9	52.0	52.7	51.3
21:00 - 22:00	51.6	50.5	45.6	51.3	51.7	52.7	50.6
22:00 - 23:00	51.2	50.0	47.4	50.3	51.5	52.5	51.4
23:00 - 00:00	51.5	48.5	49.4	49.9	51.0	52.3	53.6
00:00 - 01:00	51.0	47.5	51.5	51.1	50.0	52.4	55.2
01:00 - 02:00	50.6	47.2	51.9	49.8	49.0	52.3	55.7
02:00 - 03:00	50.9	46.7	51.3	49.2	52.2	53.3	54.2
03:00 - 04:00	49.0	49.5	56.6	48.9	50.7	52.2	53.9
04:00 - 05:00	51.0	49.2	53.6	51.7	52.7	52.9	55.3
05:00 - 06:00	53.4	53.9	52.8	56.1	56.3	56.1	54.7
06:00 - 07:00	48.0	51.9	53.6	50.6	54.6	53.3	51.9
07:00 - 08:00	50.1	50.1	47.3	52.5	47.9	52.1	51.3
08:00 - 09:00	47.6	46.6	49.1	50.1	44.1	49.3	61.7
09:00 - 10:00	49.2	46.1	49.7	51.1	45.6	45.9	52.1

Leq(24)*	49.9	49.5	51.1	50.6	50.8	51.9	53.7
Ldn	57.1	56.3	58.8	57.7	58.6	59.4	60.5
Lmax **	72.4	74.9	78.5	73.4	76.0	77.0	87.9

Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

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

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-REN Operation

Location : Moo 6, Ban Na Yai Monitor Period : 28 Nov 2024-05 Dec 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) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-347

Time	L90 (dB(A))						
	28-29 Nov 2024	29-30 Nov 2024	30-01 Dec 2024	01-02 Dec 2024	02-03 Dec 2024	03-04 Dec 2024	04-05 Dec 2024
10:00 - 11:00	43.2	44.8	36.1	34.9	42.1	42.3	36.0
11:00 - 12:00	43.5	44.0	36.2	42.3	41.8	41.3	38.1
12:00 - 13:00	39.9	43.2	38.7	41.8	32.1	38.9	38.9
13:00 - 14:00	37.6	41.2	41.9	41.6	32.8	36.4	42.4
14:00 - 15:00	38.5	39.9	43.7	41.5	33.5	37.4	41.7
15:00 - 16:00	39.2	39.2	39.5	37.4	34.9	35.6	39.7
16:00 - 17:00	41.3	39.6	46.0	37.0	38.1	37.2	38.3
17:00 - 18:00	43.2	41.9	46.7	42.0	42.4	40.9	40.6
18:00 - 19:00	50.4	50.1	49.6	50.1	51.4	50.8	50.0
19:00 - 20:00	50.4	50.8	50.1	52.3	52.0	51.5	50.4
20:00 - 21:00	49.5	50.6	40.2	51.0	51.1	52.1	50.3
21:00 - 22:00	50.0	50.1	38.0	50.8	51.1	52.3	50.1
22:00 - 23:00	50.3	49.3	39.9	49.7	50.6	51.9	50.8
23:00 - 00:00	50.3	47.4	41.8	49.3	50.6	51.6	51.1
00:00 - 01:00	50.0	47.0	48.1	49.5	49.4	51.4	54.5
01:00 - 02:00	49.7	46.6	41.5	48.9	48.3	51.7	54.3
02:00 - 03:00	48.7	45.9	46.7	47.9	49.8	51.1	53.6
03:00 - 04:00	48.0	45.6	46.3	46.0	49.4	49.9	53.4
04:00 - 05:00	46.5	45.0	50.9	45.7	46.2	49.6	50.8
05:00 - 06:00	43.3	42.9	51.3	44.9	43.7	45.4	43.3
06:00 - 07:00	42.3	41.8	51.9	44.5	43.0	46.4	42.3
07:00 - 08:00	41.8	39.6	36.8	39.3	37.9	44.4	39.7
08:00 - 09:00	41.6	38.9	37.0	37.6	37.1	39.5	38.4
09:00 - 10:00	42.8	36.4	37.0	35.9	36.2	36.2	36.1

L90(avg)*	47.0	46.1	46.1	46.9	47.3	48.5	49.0
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Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ง.4

ใบรับรองผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 1272/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/06/2024	SAMPLING TIME	: 10:56
RECEIVED DATE	: 22/06/2024	ANALYTICAL DATE	: 22-27/06/2024
REPORT DATE	: 28/06/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	31.9	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.29	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	308	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	18	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	9.7	≤ 100
Nitrate (NO ₃)	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	6.0	≤ 20
COD	mg/l	5220 C	< 15.00	41.57	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	0.03	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.24	≤ 1.0

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

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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

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

3. ^u Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 1450/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 15/07/2024	SAMPLING TIME	: 11:45
RECEIVED DATE	: 16/07/2024	ANALYTICAL DATE	: 16-22/07/2024
REPORT DATE	: 22/07/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_July

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	29.1	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.37	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	186	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	25	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	0.63	≤ 100
Nitrate (NO ₃)	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	17.08	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.87	≤ 1.0

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

Khemchuda Insorn

(Miss Khemchuda Insorn)

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REG. NO. 7-239-ก-0005

Araya Tipparuk

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Technical Management Team

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 1703/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 20/08/2024	SAMPLING TIME	: 13:40
RECEIVED DATE	: 21/08/2024	ANALYTICAL DATE	: 21-26/08/2024
REPORT DATE	: 27/08/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_August

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	33.3	≤ 40
pH	-	4500-H ⁺ B	< 0.10	7.94	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	224	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	7	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	0.43	≤ 100
Nitrate (NO ₃)	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	15.14	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.36	≤ 1.0

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

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Technical Management Team

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3. ^u Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 1885/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 10/09/2024	SAMPLING TIME	: 16:41
RECEIVED DATE	: 11/09/2024	ANALYTICAL DATE	: 11-16/09/2024
REPORT DATE	: 17/09/2024	SITE OPERATOR	: Mr. Baworn Dechaiya
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_September

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	32.1	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.77	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	174	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	13	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	0.48	≤ 100
Nitrate (NO ₃)	mg/l	4500-NO ₃ -E	< 0.02	0.11	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	1.3	≤ 20
COD	mg/l	5220 C	< 15.00	17.66	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	ND	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.41	≤ 1.0

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

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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3. ^u Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 2072/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 08/10/2024	SAMPLING TIME	: 16:30
RECEIVED DATE	: 09/10/2024	ANALYTICAL DATE	: 09-15/10/2024
REPORT DATE	: 16/10/2024	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_October

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อกักน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	31.6	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.16	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	306	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	20	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	4.7	≤ 100
Nitrate (NO ₃)	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	5.4	≤ 20
COD	mg/l	5220 C	< 15.00	19.14	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	0.03	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.22	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA-APIA, WEB)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-n-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-n-0004

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

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3. ^u Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 2416/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/11/2024	SAMPLING TIME	: 09:05
RECEIVED DATE	: 22/11/2024	ANALYTICAL DATE	: 22-28/11/2024
REPORT DATE	: 28/11/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อกักน้ำทิ้ง	STANDARD ^u
Temperature	°C	2550 B	< 0.5	27.8	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.29	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	311	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	6	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	8.8	≤ 100
Nitrate (NO ₃)*	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	3.1	≤ 20
COD	mg/l	5220 C	< 15.00	43.89	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	0.03	≤ 2.0
Total Iron (Fe)	mg/l	3120 B	< 0.004	0.08	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED., 2017 (AWWA-APIA, WEB)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-n-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-n-0004

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

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3. ^u Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

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

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: R E N Korat Energy Co., Ltd.	REQUEST SERVICE No.	: 2554/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 06/12/2024	SAMPLING TIME	: 08:50
RECEIVED DATE	: 07/12/2024	ANALYTICAL DATE	: 07-14/12/2024
REPORT DATE	: 14/12/2024	SITE OPERATOR	: Mr.Thanawut Duansaeng
SAMPLE CONDITION	: Normal	FILE CODE	: 224046_WW_December

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ^{1/}
		METHODS	(non-detectable)	บ่อพักน้ำทิ้ง	
Temperature	°C	2550 B	< 0.5	25.8	≤ 40
pH	-	4500-H ⁺ B	< 0.10	8.33	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	332	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	7	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
TKN	mg/l	4500-N _{org} B	< 0.20	0.85	≤ 100
Nitrate (NO ₃)*	mg/l	4500-NO ₃ -E	< 0.02	ND	≤ 10
BOD ₅	mg/l	5210 B	< 1.0	1.3	≤ 20
COD	mg/l	5220 C	< 15.00	41.25	≤ 120
Total Copper (Cu)	mg/l	3120 B	< 0.001	ND	≤ 2.0
Total Iron (Fe)*	mg/l	3120 B	< 0.004	0.07	≤ 1.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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

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

3. ^{1/} Notification of the Ministry of Natural Resources and Environment B.E.2565 (2022) (Power Plant).

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

5. - Not available.

ภาคผนวก ง.5

ใบรับรองผลการตรวจวัดระดับเสียงในสถานที่ทำงาน



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Radiator Monitor Period : Jun 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820722
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Sep 04, 2023
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Sep 03, 2024
Cal Sheet No.: CR-515-2024-175

Time	Equivalent Sound Pressure Level (dB(A))	
	Jun 21, 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	80.9	
10:00 - 11:00	80.3	
11:00 - 12:00	80.2	
12:00 - 13:00	80.2	
13:00 - 14:00	80.2	
14:00 - 15:00	80.4	
15:00 - 16:00	79.1	
16:00 - 17:00	76.0	
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 - 24:00		
Leq(8)*	79.9	
Lmax **	83.8	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Boiler Pump Monitor Period : Jun 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820725
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Sep 04, 2023
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Sep 03, 2024
Cal Sheet No.: CR-515-2024-175

Time	Equivalent Sound Pressure Level (dB(A))	
	Jun 21, 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	73.5	
10:00 - 11:00	73.2	
11:00 - 12:00	73.3	
12:00 - 13:00	73.2	
13:00 - 14:00	73.2	
14:00 - 15:00	73.4	
15:00 - 16:00	70.9	
16:00 - 17:00	71.3	
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 - 24:00		
Leq(8)*	72.8	
Lmax **	80.7	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Electrical Generator Monitor Period : Jun 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820723
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Sep 04, 2023
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Sep 03, 2024
Cal Sheet No.: CR-515-2024-175

Time	Equivalent Sound Pressure Level (dB(A))	
	Jun 21, 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	66.9	
10:00 - 11:00	67.3	
11:00 - 12:00	65.1	
12:00 - 13:00	65.0	
13:00 - 14:00	65.1	
14:00 - 15:00	65.9	
15:00 - 16:00	70.1	
16:00 - 17:00	69.1	
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 - 24:00		
Leq(8)*	67.2	
Lmax **	88.9	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Radiator Monitor Period : Aug 20, 2024
SLM Model : SCARLET ST-21D Serial No : 820728
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-238

Time	Equivalent Sound Pressure Level (dB(A))	
	Aug 20, 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	77.2	
09:00 - 10:00	77.1	
10:00 - 11:00	77.0	
11:00 - 12:00	77.0	
12:00 - 13:00	76.9	
13:00 - 14:00	77.4	
14:00 - 15:00	76.1	
15:00 - 16:00	74.1	
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 - 24:00		
Leq(8)*	76.7	
Lmax **	98.6	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Boiler Pump Monitor Period : Aug 20, 2024
SLM Model : SCARLET ST-21D Serial No : 820722
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-238

Time	Equivalent Sound Pressure Level (dB(A))	
	Aug 20, 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	68.3	
09:00 - 10:00	68.2	
10:00 - 11:00	68.1	
11:00 - 12:00	68.1	
12:00 - 13:00	68.2	
13:00 - 14:00	74.9	
14:00 - 15:00	79.4	
15:00 - 16:00	79.4	
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 - 24:00		
Leq(8)*	74.7	
Lmax **	84.7	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Electrical Generator Monitor Period : Aug 20, 2024
SLM Model : SCARLET ST-21D Serial No : 820727
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-238

Time	Equivalent Sound Pressure Level (dB(A))	
	Aug 20, 2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	76.2	
09:00 - 10:00	75.8	
10:00 - 11:00	75.9	
11:00 - 12:00	76.2	
12:00 - 13:00	75.5	
13:00 - 14:00	76.4	
14:00 - 15:00	77.3	
15:00 - 16:00	75.4	
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 - 24:00		
Leq(8)*	76.1	
Lmax **	85.3	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Radiator Monitor Period : Nov 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820725
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-326

Time	Equivalent Sound Pressure Level (dB(A))	
	Nov 21, 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	79.5	
09:00 - 10:00	79.8	
10:00 - 11:00	80.1	
11:00 - 12:00	80.1	
12:00 - 13:00	80.3	
13:00 - 14:00	80.2	
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 - 24:00		
Leq(8)*	80.1	
Lmax **	81.8	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Boiler Pump Monitor Period : Nov 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820722
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-326

Time	Equivalent Sound Pressure Level (dB(A))	
	Nov 21, 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	74.3	
09:00 - 10:00	74.6	
10:00 - 11:00	75.1	
11:00 - 12:00	76.4	
12:00 - 13:00	80.4	
13:00 - 14:00	80.3	
14:00 - 15:00	80.3	
15:00 - 16:00	80.3	
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 - 24:00		
Leq(8)*	78.5	
Lmax **	82.6	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-REN Operation

Location : Electrical Generator Monitor Period : Nov 21, 2024
SLM Model : SCARLET ST-21D Serial No : 820729
Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2024-326

Time	Equivalent Sound Pressure Level (dB(A))	
	Nov 21, 2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	72.3	
09:00 - 10:00	74.5	
10:00 - 11:00	75.9	
11:00 - 12:00	76.4	
12:00 - 13:00	75.8	
13:00 - 14:00	76.0	
14:00 - 15:00	75.9	
15:00 - 16:00	76.1	
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 - 24:00		
Leq(8)*	75.5	
Lmax **	81.1	
Standard-8Hr	90 dB(A)	
Standard-Max	140 dB(A)	

Remark : * Average time between 08:00-16:00

** Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorrade Wittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team

ภาคผนวก ง.6

ใบรับรองผลการตรวจวัดระดับความร้อนในพื้นที่ทำงาน




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

HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert WBGT/Jun24
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 21/06/2024 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Salisa Ainree SERIAL NO. : 3522210177

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Steam Pipeline	10.23-10.53	27.4	33.2	37.9	30.1	30.4	34.0
	10.53-11.23	28.5	34.9	39.4	31.3		
	11.23-11.53	27.4	34.3	36.5	29.9		
	11.53-12.23	27.5	35.3	37.3	30.2		


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
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. *WBGT Standard was notified by the Ministerial Regulation of Labor, B.E.2559 (2016).

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

5. 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 : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert WBGT/Aug24
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 20/08/2024 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Salisa Ainree SERIAL NO. : 3522210179

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Steam Pipeline	10.22-10.52	27.0	30.6	34.7	28.9	29.6	34.0
	10.52-11.22	27.5	31.6	35.5	29.5		
	11.22-11.52	28.1	33.1	38.0	30.6		
	11.52-12.22	27.4	31.4	34.6	29.2		


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team

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WBGT = Wet Bulb Globe Temperature

5. 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 : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert WBGT/Nov24
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 20/11/2024 MODEL NO. : JT2011-E2A
SITE OPERATOR : Miss Salisa Ainree SERIAL NO. : 3522210179

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	WBGT
Steam Pipeline	13.09-13.39	26.8	34.3	38.2	29.8	29.1	34.0
	13.39-14.09	26.7	35.8	37.4	29.8		
	14.09-14.39	25.5	32.9	36.6	28.5		
	14.39-15.09	25.6	33.3	35.5	28.4		


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

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

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

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

ภาคผนวก ง.7

ใบรับรองผลการตรวจวัดความเข้มของแสงสว่าง
ในพื้นที่ทำงาน



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

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

LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert Light/Jun24(Area)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 21/06/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Electrical and Control Building						
Meeting Room	ห้องประชุม	09.47	1,194	300	1,127	150
Control Equipment Room	ห้องควบคุม	09.49	639	200	450	100
Pantry Room	ห้องอาหาร	09.52	835	300	835	150
ห้องน้ำหญิง	ห้องสุขา	09.52	363	100	363	50
ห้องน้ำชาย	ห้องสุขา	09.52	795	100	795	50

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LIGHT INTENSITY MEASUREMENT REPORT

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MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 21/06/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD
บริเวณ Administration Building						
Reception	ห้องต้อนรับแขก	09.56	554	100	553	50
Labby and Information	ห้องโถง	10.02	541	100	539	50
Electrical Room	ห้องควบคุม	09.57	682	200	653	100
Storage Room	ห้องเก็บของ	09.58	463	100	456	50
Janitor	ห้องเก็บของ	09.58	473	100	473	50
ห้องน้ำหญิง	ห้องสุขา	09.59	424	100	400	50
ห้องน้ำชาย	ห้องสุขา	09.59	414	100	412	50
ห้องน้ำผู้พิการ	ห้องสุขา	09.59	617	100	617	50
ทางเดิน 1	ทางเดินภายในอาคาร	10.00	763	100	623	50
ทางเดิน 2	ทางเดินภายในอาคาร	10.00	657	100	540	50
ทางเดิน 3	ทางเดินภายในอาคาร	10.01	494	100	467	50
Pantry and Canteen	ห้องอาหาร	10.16	1,149	300	1,113	150
Document Room	ห้องเก็บข้อมูล	10.17	866	300	811	150
Meeting Room 1	ห้องประชุม	10.18	1,374	300	1,112	150
Meeting Room 2	ห้องประชุม	10.18	1,440	300	1,211	150

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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
<u>บริเวณ Workshop and Warehouse 1st Floor</u>						
Mech.Tool Room	ห้องเก็บของ	09.19	503	100	409	50
Storage Room	ห้องเก็บของ	09.21	311	100	304	50
E&I Room	ห้องควบคุม	09.20	358	200	315	100
โถงทางเดิน	โถงทางเดิน	09.23	1,147	100	1,029	50
ห้องน้ำหญิง	ห้องสุขา	09.24	459	100	440	50
ห้องน้ำชาย	ห้องสุขา	09.25	448	100	445	50
<u>บริเวณ Workshop and Warehouse 2nd Floor</u>						
Meeting Room	ห้องประชุม	09.37	1,276	300	1,113	150
Pantry Room	ห้องอาหาร	09.35	939	300	923	150
ห้องรับประทานอาหาร	ห้องรับประทานอาหาร	09.36	1,141	300	1,078	150
ห้องน้ำหญิง	ห้องสุขา	09.35	525	100	495	50
ห้องน้ำชาย	ห้องสุขา	09.36	432	100	424	50
บันได	บันได	09.38	1,098	100	900	50

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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Electrical and Control Building				
Control Room โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	09.44	451	400-500
Control Room โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	09.44	425	400-500
Control Room โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	09.44	413	400-500
Control Room โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	09.44	430	400-500
Control Room โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	09.45	418	400-500
Control Room โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	09.45	407	400-500
Control Room โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	09.45	411	400-500
Control Room โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	09.45	405	400-500
Control Room โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	09.45	406	400-500
Control Room โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	09.46	427	400-500
Control Room โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	09.46	448	400-500

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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building				
โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	10.10	751	400-500
โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	10.10	774	400-500
โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	10.10	710	400-500
โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	10.11	762	400-500
โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	10.11	727	400-500
โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	10.11	659	400-500
โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	10.11	711	400-500
โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	10.11	729	400-500
โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	10.12	726	400-500
โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	10.12	649	400-500
โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	10.12	769	400-500
โต๊ะทำงาน 12	เอกสาร / คอมพิวเตอร์	10.12	781	400-500

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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building (ต่อ)				
MD Room (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	10.13	779	400-500
Director Room 1 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	10.13	971	400-500
Director Room 2 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	10.14	926	400-500
เครื่องถ่ายเอกสาร	สำเนาเอกสาร	10.14	516	300-400

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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Workshop and Warehouse 2 nd Floor				
โต๊ะทำงาน (คุณรัตพล ศรีสมพร)	เอกสาร / คอมพิวเตอร์	09.29	663	400-500
โต๊ะทำงาน (คุณเอกพล สาสีเสาว)	เอกสาร / คอมพิวเตอร์	09.30	614	400-500
โต๊ะทำงาน (ว่าง)	เอกสาร / คอมพิวเตอร์	09.32	887	400-500
โต๊ะทำงาน (ว่าง)	เอกสาร / คอมพิวเตอร์	09.30	576	400-500
โต๊ะทำงาน (คุณสุวิทย์ คงสิทธิ์)	เอกสาร / คอมพิวเตอร์	09.32	637	400-500
โต๊ะทำงาน (คุณเอนก รินสายชล)	เอกสาร / คอมพิวเตอร์	09.32	557	400-500
โต๊ะทำงาน (คุณไพฑูรย์ แพทย์สูงเนิน)	เอกสาร / คอมพิวเตอร์	09.31	534	400-500
โต๊ะทำงาน (คุณสุรศักดิ์ วงศ์คง)	เอกสาร / คอมพิวเตอร์	09.31	631	400-500
โต๊ะทำงาน (ว่าง)	เอกสาร / คอมพิวเตอร์	09.30	653	400-500
โต๊ะทำงาน (คุณณฤพล ปิติ)	เอกสาร / คอมพิวเตอร์	09.31	552	400-500
โต๊ะทำงาน (ว่าง)	เอกสาร / คอมพิวเตอร์	09.30	677	400-500
โต๊ะทำงาน (คุณหทัยกาญจน์ ทนิตสุราษฎร์)	เอกสาร / คอมพิวเตอร์	09.30	563	400-500
โต๊ะรับแขก	โต๊ะรับแขก	09.32	672	400-500
Manager Room โต๊ะทำงาน (คุณก้องภพ ทองพิเศษ)	เอกสาร / คอมพิวเตอร์	09.33	938	400-500

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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Electrical and Control Building						
Meeting Room	ห้องประชุม	13.50	1,242	300	1,145	150
Control Equipment Room	ห้องควบคุม	13.51	610	200	513	100
Pantry Room	ห้องอาหาร	13.38	1,715	300	1,715	150
ห้องน้ำหญิง	ห้องสุขา	13.40	922	100	922	50
ห้องน้ำชาย	ห้องสุขา	13.39	791	100	791	50

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			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Administration Building						
Reception	ห้องต้อนรับแขก	13.58	440	100	427	50
Labby and Information	ห้องโถง	13.58	446	100	418	50
Electrical Room	ห้องควบคุม	13.59	628	200	622	100
Storage Room	ห้องเก็บของ	14.00	428	100	420	50
Janitor	ห้องเก็บของ	14.00	380	100	380	50
ห้องน้ำหญิง	ห้องสุขา	14.01	433	100	420	50
ห้องน้ำชาย	ห้องสุขา	14.01	428	100	424	50
ห้องน้ำผู้พิการ	ห้องสุขา	14.01	633	100	633	50
ทางเดิน 1	ทางเดินภายในอาคาร	14.02	688	100	639	50
ทางเดิน 2	ทางเดินภายในอาคาร	14.02	492	100	116	50
ทางเดิน 3	ทางเดินภายในอาคาร	14.02	523	100	512	50
Pantry and Canteen	ห้องอาหาร	14.08	1,136	300	1,040	150
Document Room	ห้องเก็บข้อมูล	14.08	796	300	717	150
Meeting Room 1	ห้องประชุม	14.11	1,247	300	1,070	150
Meeting Room 2	ห้องประชุม	14.09	1,139	300	1,015	150


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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Workshop and Werehouse 1 st Floor						
Mech.Tool Room	ห้องเก็บของ	13.24	474	100	415	50
Storage Room	ห้องเก็บของ	13.28	320	100	295	50
E&I Room	ห้องควบคุม	13.25	409	200	403	100
โถงทางเดิน	โถงทางเดิน	13.26	952	100	889	50
ห้องน้ำหญิง	ห้องสุขา	13.27	371	100	365	50
ห้องน้ำชาย	ห้องสุขา	13.27	334	100	325	50
บริเวณ Workshop and Werehouse 2 nd Floor						
Meeting Room	ห้องประชุม	13.29	1,241	300	1,181	150
Pantry Room	ห้องอาหาร	13.31	451	300	449	150
ห้องรับประทานอาหาร	ห้องรับประทานอาหาร	13.30	1,013	300	1,010	150
ห้องน้ำหญิง	ห้องสุขา	13.32	355	100	344	50
ห้องน้ำชาย	ห้องสุขา	13.32	377	100	369	50
บันได	บันได	13.39	644	100	554	50


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


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LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert Light/Aug24(Spot)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 19-20/08/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Electrical and Control Building				
Control Room โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	13.47	415	400-500
Control Room โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	13.47	403	400-500
Control Room โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	13.47	412	400-500
Control Room โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	13.47	419	400-500
Control Room โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	13.47	420	400-500
Control Room โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	13.48	405	400-500
Control Room โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	13.48	422	400-500
Control Room โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	13.48	411	400-500
Control Room โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	13.48	413	400-500
Control Room โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	13.48	408	400-500
Control Room โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	13.49	416	400-500


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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building				
โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	14.03	579	400-500
โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	14.03	673	400-500
โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	14.03	622	400-500
โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	14.04	680	400-500
โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	14.04	640	400-500
โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	14.04	571	400-500
โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	14.04	640	400-500
โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	14.04	589	400-500
โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	14.04	720	400-500
โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	14.04	604	400-500
โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	14.05	680	400-500
โต๊ะทำงาน 12	เอกสาร / คอมพิวเตอร์	14.05	637	400-500


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MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building (ตึก)				
MD Room (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	14.05	788	400-500
Director Room 1 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	14.05	713	400-500
Director Room 2 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	14.07	850	400-500
เครื่องถ่ายเอกสาร	สำเนาเอกสาร	14.07	431	300-400


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SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Workshop and Warehouse 2 nd Floor				
โต๊ะทำงาน (คุณเอก รินสายชล)	เอกสาร / คอมพิวเตอร์	13.34	915	400-500
โต๊ะทำงาน (คุณโตพล ศรีสมพร)	เอกสาร / คอมพิวเตอร์	13.34	879	400-500
โต๊ะทำงาน (คุณเอกพล สาลีเสาว์)	เอกสาร / คอมพิวเตอร์	13.34	560	400-500
โต๊ะทำงาน 1 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.34	616	400-500
โต๊ะทำงาน (คุณไพฑูรย์ แพทย์สูงเนิน)	เอกสาร / คอมพิวเตอร์	13.34	449	400-500
โต๊ะทำงาน (คุณสุรศักดิ์ วงศ์คง)	เอกสาร / คอมพิวเตอร์	13.35	534	400-500
โต๊ะทำงาน (คุณสุปรีดี คงสิทธิ์)	เอกสาร / คอมพิวเตอร์	13.35	553	400-500
โต๊ะทำงาน 2 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.35	562	400-500
โต๊ะทำงาน 3 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.35	574	400-500
โต๊ะทำงาน (คุณณฤพร ปิติ)	เอกสาร / คอมพิวเตอร์	13.35	546	400-500
โต๊ะทำงาน (คุณหทัยกาญจน์ หมั่นสุรราช)	เอกสาร / คอมพิวเตอร์	13.35	571	400-500
เครื่องถ่ายเอกสาร	สำเนาเอกสาร	13.38	622	300-400
โต๊ะรับแขก	โต๊ะรับแขก	13.36	538	300-400
Manager Room โต๊ะทำงาน (คุณก้องภพ ทองพิเศษ)	เอกสาร / คอมพิวเตอร์	13.33	892	400-500


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MEASUREMENT DATE : 20/11/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Electrical and Control Building						
Meeting Room	ห้องประชุม	13.34	1,851	300	1,757	150
Control Equipment Room	ห้องควบคุม	13.39	595	200	437	100
Pantry Room	ห้องอาหาร	13.32	959	300	959	150
ห้องน้ำหญิง	ห้องสุขา	13.33	808	100	808	50
ห้องน้ำชาย	ห้องสุขา	13.33	855	100	855	50

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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
บริเวณ Administration Building						
Reception	ห้องต้อนรับแขก	13.45	457	100	452	50
Labby and Information	ห้องโถง	13.45	452	100	425	50
Electrical Room	ห้องควบคุม	13.46	734	200	728	100
Storage Room	ห้องเก็บของ	13.46	421	100	409	50
Janitor	ห้องเก็บของ	13.47	255	100	255	50
ห้องน้ำหญิง	ห้องสุขา	13.47	452	100	447	50
ห้องน้ำชาย	ห้องสุขา	13.48	386	100	351	50
ห้องน้ำผู้พิการ	ห้องสุขา	13.48	637	100	637	50
ทางเดิน 1	ทางเดินภายในอาคาร	13.48	756	100	720	50
ทางเดิน 2	ทางเดินภายในอาคาร	13.48	554	100	439	50
ทางเดิน 3	ทางเดินภายในอาคาร	13.59	486	100	433	50
Pantry and Canteen	ห้องอาหาร	13.54	1,239	300	1,140	150
Document Room	ห้องเก็บข้อมูล	13.55	801	300	739	150
Meeting Room 1	ห้องประชุม	13.58	1,416	300	1,105	150
Meeting Room 2	ห้องประชุม	13.56	1,404	300	1,143	150

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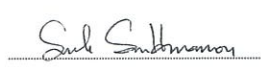
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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)			
			AVERAGE VALUE		MINIMUM VALUE	
			RESULTS	STANDARD*	RESULTS	STANDARD*
<u>บริเวณ Workshop and Warehouse 1st Floor</u>						
Mech.Tool Room	ห้องเก็บของ	13.12	479	100	416	50
Storage Room	ห้องเก็บของ	13.14	327	100	307	50
E&I Room	ห้องควบคุม	13.13	421	200	414	100
โถงทางเดิน	โถงทางเดิน	13.15	936	100	743	50
ห้องน้ำหญิง	ห้องสุขา	13.16	375	100	359	50
ห้องน้ำชาย	ห้องสุขา	13.16	351	100	334	50
<u>บริเวณ Workshop and Warehouse 2nd Floor</u>						
Meeting Room	ห้องประชุม	13.19	1,557	300	1,471	150
Pantry Room	ห้องอาหาร	13.18	948	300	913	150
ห้องรับประทานอาหาร	ห้องรับประทานอาหาร	13.17	1,120	300	1,068	150
ห้องน้ำหญิง	ห้องสุขา	13.19	417	100	404	50
ห้องน้ำชาย	ห้องสุขา	13.18	413	100	373	50
บันได	บันได	13.28	422	100	342	50


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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Electrical and Control Building				
Control Room โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	13.35	452	400-500
Control Room โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	13.35	455	400-500
Control Room โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	13.35	417	400-500
Control Room โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	13.36	403	400-500
Control Room โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	13.36	433	400-500
Control Room โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	13.37	411	400-500
Control Room โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	13.37	400	400-500
Control Room โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	13.37	415	400-500
Control Room โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	13.37	433	400-500
Control Room โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	13.37	429	400-500
Control Room โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	13.38	402	400-500


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บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

LIGHT INTENSITY MEASUREMENT REPORT

CLIENT NAME : R E N Korat Energy Co., Ltd. REFERENCE NO. : REN (Oper)-224046-Cert Light/Nov24(Spot)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Digital Light Meter
MEASUREMENT DATE : 20/11/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building				
โต๊ะทำงาน 1	เอกสาร / คอมพิวเตอร์	13.49	712	400-500
โต๊ะทำงาน 2	เอกสาร / คอมพิวเตอร์	13.50	738	400-500
โต๊ะทำงาน 3	เอกสาร / คอมพิวเตอร์	13.50	676	400-500
โต๊ะทำงาน 4	เอกสาร / คอมพิวเตอร์	13.50	749	400-500
โต๊ะทำงาน 5	เอกสาร / คอมพิวเตอร์	13.50	701	400-500
โต๊ะทำงาน 6	เอกสาร / คอมพิวเตอร์	13.50	643	400-500
โต๊ะทำงาน 7	เอกสาร / คอมพิวเตอร์	13.51	643	400-500
โต๊ะทำงาน 8	เอกสาร / คอมพิวเตอร์	13.51	694	400-500
โต๊ะทำงาน 9	เอกสาร / คอมพิวเตอร์	13.51	766	400-500
โต๊ะทำงาน 10	เอกสาร / คอมพิวเตอร์	13.51	651	400-500
โต๊ะทำงาน 11	เอกสาร / คอมพิวเตอร์	13.51	702	400-500
โต๊ะทำงาน 12	เอกสาร / คอมพิวเตอร์	13.51	673	400-500


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

Technical Management Team

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MEASUREMENT DATE : 20/11/2024 MODEL : 407026
MEASUREMENT LOCATION : R E N Korat Energy Power Plant SERIAL NO. : A 051050
SITE OPERATOR : Miss Salisa Ainree

LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Administration Building (ต่อ)				
MD Room (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	13.52	875	400-500
Director Room 1 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	13.52	960	400-500
Director Room 2 (โต๊ะทำงาน)	เอกสาร / คอมพิวเตอร์	13.53	959	400-500
เครื่องถ่ายเอกสาร	สำเนาเอกสาร	13.53	462	300-400


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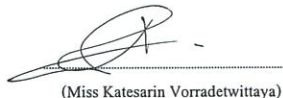
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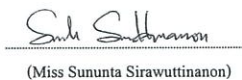
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LOCATION	AREA / ACTIVITY	TIME	LIGHT INTENSITY (LUX)	
			RESULTS	STANDARD*
บริเวณ Workshop and Warehouse 2 nd Floor				
โต๊ะทำงาน (คุณเอก วีนสายชล)	เอกสาร / คอมพิวเตอร์	13.21	616	400-500
โต๊ะทำงาน (คุณโตพล ศรีสมพร)	เอกสาร / คอมพิวเตอร์	13.21	620	400-500
โต๊ะทำงาน (คุณเอกพล ศาส์เสาว์)	เอกสาร / คอมพิวเตอร์	13.22	569	400-500
โต๊ะทำงาน 1 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.22	636	400-500
โต๊ะทำงาน (คุณไพฑูรย์ แพทย์สูงเนิน)	เอกสาร / คอมพิวเตอร์	13.22	458	400-500
โต๊ะทำงาน (คุณสุรศักดิ์ วงศ์คง)	เอกสาร / คอมพิวเตอร์	13.22	535	400-500
โต๊ะทำงาน (คุณสุปรีย์ คงสิทธิ์)	เอกสาร / คอมพิวเตอร์	13.22	550	400-500
โต๊ะทำงาน 2 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.22	569	400-500
โต๊ะทำงาน 3 (ว่าง)	เอกสาร / คอมพิวเตอร์	13.23	591	400-500
โต๊ะทำงาน (คุณนฤพร ปิติ)	เอกสาร / คอมพิวเตอร์	13.23	624	400-500
โต๊ะทำงาน (คุณหทัยกาญจน์ หนั่นสุราษฎร์)	เอกสาร / คอมพิวเตอร์	13.23	633	400-500
เครื่องถ่ายเอกสาร	สำเนาเอกสาร	13.24	691	300-400
โต๊ะรับแขก	โต๊ะรับแขก	13.24	681	300-400
Manager Room โต๊ะทำงาน	เอกสาร / คอมพิวเตอร์	13.23	853	400-500
(คุณก้องภพ ทองพิเศษ)				


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