

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศจากปล่อง



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Puakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location :

Lot ID: 2329226
Date Received : Mar 23, 2023
Date Reported : Mar 30, 2023
Report Number: 2594467-1

Page 1 of 2

Sample Number 2329226-1
Sampled Date Mar 23, 2023
Sample Description Emission from Stationary Source
Location ปล่องระบายมลพิษทางอากาศ HRSG 31 (GPS 47P 0727599, 1430985)
Date Analysis Commenced Mar 24, 2023
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.5	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	96.2	°C	Gas Velocity	21.8	m/s	
Type of Fuel	Natural Gas		Moisture	7.98	%	Flow Rate (Actual O2)	380141	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 14.5 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location	
Air Testing										
Oxides of Nitrogen *	10:40 AM - 10:50 AM	ppm	-	1.06	13.2	6.08	120	60	United States Environmental Protection Agency, EPA Method 7	Rayong
Sulfur dioxide *	10:30 AM - 12:30 PM	ppm	-	0.5	<0.5	<0.5	20	10	United States Environmental Protection Agency, EPA Method 6	Rayong
Total Suspended Particulate	10:30 AM - 11:30 AM	mg/m3	-	0.5	<0.5	<0.5	60	20	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :
Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารพิษในอากาศที่รับจากโรงงานผลิต ส. หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยมลพิษจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Amata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

Thanitak.
Thanita Kulsriwong
Scientist (4)
โทรศัพท์ 0-323-9-9447

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 0-323-9-9442

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Puakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
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Date Analysis Commenced Mar 24, 2023
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.5	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	96.2	°C	Gas Velocity	21.8	m/s	
Type of Fuel	Natural Gas		Moisture	7.98	%	Flow Rate (Actual O2)	380141	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen *	10:40 AM - 10:50 AM	g/s	-	-	1.198	-	7.33	Calculated	Rayong
Sulfur dioxide *	10:30 AM - 12:30 PM	g/s	-	-	<0.137	-	1.70	Calculated	Rayong
Total Suspended Particulate *	10:30 AM - 11:30 AM	g/s	-	-	<0.053	-	1.30	Calculated	Rayong

Guideline :
Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารพิษในอากาศที่รับจากโรงงานผลิต ส. หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยมลพิษจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Amata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Kantaphon Maneesampan

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Puakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329232
Date Received : Mar 23, 2023
Date Reported : Apr 04, 2023
Report Number: 2594472-1

Page 1 of 2

Sample Number 2329232-1
Sampled Date Mar 23, 2023
Sample Description Emission from Stationary Source
Location ปล่องระบายมลพิษทางอากาศ HRSG 32 (GPS 47P 0727622, 1431003)
Date Analysis Commenced Mar 24, 2023
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle and one amber plastic bottle, refrigerated

Stack Description									
Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.4	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	97.2	°C	Gas Velocity	22.4	m/s	
Type of Fuel	Natural Gas		Moisture	7.95	%	Flow Rate (Actual O2)	389717	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 14.4 % O ₂		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Oxides of Nitrogen *	01:45 PM - 01:55 PM	ppm	-	1.06	16.0	7.48	120	60	United States Environmental Protection Agency, EPA Method 7	Rayong
Sulfur dioxide *	01:20 PM - 03:20 PM	ppm	-	0.5	<0.5	<0.5	20	10	United States Environmental Protection Agency, EPA Method 6	Rayong
Total Suspended Particulate	01:30 PM - 02:30 PM	mg/m3	-	0.5	<0.5	<0.5	60	20	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :
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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Puakdaeng, Rayong 21140
P/O : 2301130009
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Project Location :

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Date Reported : Apr 04, 2023
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Stack Description									
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Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%	
Type of Process	Combustion		Stack Temperature	97.2	°C	Gas Velocity	22.4	m/s	
Type of Fuel	Natural Gas		Moisture	7.95	%	Flow Rate (Actual O2)	389717	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen *	01:45 PM - 01:55 PM	g/s	-	-	1.512	-	7.33	Calculated	Rayong
Sulfur dioxide *	01:20 PM - 03:20 PM	g/s	-	-	<0.141	-	1.70	Calculated	Rayong
Total Suspended Particulate *	01:30 PM - 02:30 PM	g/s	-	-	<0.054	-	1.30	Calculated	Rayong

Guideline :
Guideline(1)
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Technical Management

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Thanita Kulsriwong
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Dej Changchon
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ภาคผนวก ค-2

คุณภาพจากปล่องระบายมลพิษทางอากาศ โดยเครื่องตรวจวัดคุณภาพ
อากาศแบบต่อเนื่อง (CEMs)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117499
Date Received: Oct 24, 2022
Date Reported: Nov 21, 2022
Report Number: 2474396-1

Page 1 of 2

Sample Number : 22117499-1
Sampled Date : Oct 21, 2022
Sample Description : Emission from Stationary Source
Location : HRSG31
Parameter : Opacity Correlation

Opacity Correlation Test Report

No. Samples	Date	Time		CEMs Values (PM, mg/m ³)	RM Values (PM at 7%O ₂ , mg/m ³)	Percent of Maximum PM Value (%)
		Start	Stop			
1	21 Oct 22	10:30	11:18	1.65	0.233	66.19
2	21 Oct 22	11:25	12:13	1.81	0.233	66.15
3	21 Oct 22	12:20	13:08	1.70	0.235	66.79
4	21 Oct 22	13:15	14:03	1.72	0.235	66.86
5	21 Oct 22	14:10	14:58	1.53	0.234	66.43
6	21 Oct 22	15:05	15:53	1.65	0.235	66.84
7	21 Oct 22	16:00	16:48	1.58	0.237	67.36
8	21 Oct 22	16:55	17:43	1.45	0.235	66.79
9	24 Oct 22	10:00	10:48	1.31	0.236	67.03
10	24 Oct 22	10:55	11:43	1.55	0.244	69.44
11	24 Oct 22	11:55	12:43	1.26	0.236	67.09
12	24 Oct 22	12:45	13:33	1.38	0.235	66.85
13	24 Oct 22	13:40	14:28	1.41	0.352	100.00
14*	24 Oct 22	14:35	15:23	0.62	0.252	71.70
15	24 Oct 22	15:30	16:18	1.35	0.236	67.00
Average				1.46	0.24	-

Reference Method : US EPA Method 5 / PS-11

Remark : * Sample with * is rejected data

Technical Management :
Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by :
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 204-4702

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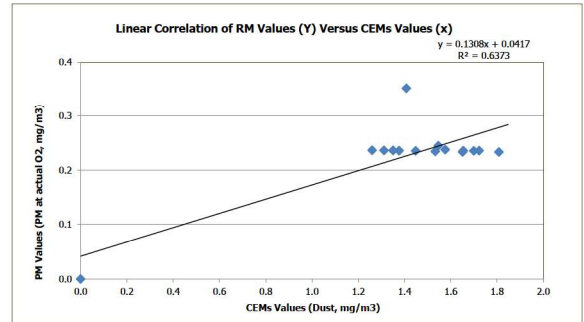
Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117499
Date Received: Oct 24, 2022
Date Reported: Nov 21, 2022
Report Number: 2474396-1

Page 2 of 2

Sample Number : 22117499-1
Sampled Date : Oct 21, 2022
Sample Description : Emission from Stationary Source
Location : HRSG31
Parameter : Opacity Correlation



Sampled By : Suwicha Thong-On

Technical Management :
Wichan Choonharat
Manager
โทรศัพท์ 204-6113

Approved by :
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 204-4702

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received: Oct 24, 2022
Date Reported: Nov 04, 2022
Report Number: 2443600-1

Page 1 of 30

Sample Number : 22117506-2
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRSG32
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.1	m/s
Type of Fuel	Natural Gas		Moisture	9.16	%	Flow Rate (Actual O2)	383946	Nm ³ /hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 m/s	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m ³	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline: Guideline(1)

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Amata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management :
Saranya Chaleramharnong
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Approved by :
Kanokorn Anek
Senior Manager
โทรศัพท์ 204-4711

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received: Oct 24, 2022
Date Reported: Nov 04, 2022
Report Number: 2443600-1

Page 2 of 30

Sample Number : 22117506-2
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRSG32
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.1	m/s
Type of Fuel	Natural Gas		Moisture	9.16	%	Flow Rate (Actual O2)	383946	Nm ³ /hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:00 AM - 10:48 AM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline: Guideline(1)

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Amata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anawat Moungjai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management :
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Approved by :
Kanokorn Anek
Senior Manager
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S:\Reports_Air Stack_202\pt (10-30AM)



Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 3 of 30

Sample Number : 22117506-3
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%	
Type of Process	Combustion		Stack Temperature	97.3	°C	Gas Velocity	22.2	m/s	
Type of Fuel	Natural Gas		Moisture	8.68	%	Flow Rate (Actual O2)	387294	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:55 AM - 11:43 AM	mg/m ³	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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S:\Reports_Air Stack_2GL.rpt (10/30/46)



Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 4 of 30

Sample Number : 22117506-3
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.0	%	
Type of Process	Combustion		Stack Temperature	97.3	°C	Gas Velocity	22.2	m/s	
Type of Fuel	Natural Gas		Moisture	8.68	%	Flow Rate (Actual O2)	387294	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:55 AM - 11:43 AM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anusav Mungpai

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 5 of 30

Sample Number : 22117506-4
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.35	%	Flow Rate (Actual O2)	385337	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:50 AM - 12:38 PM	mg/m ³	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 6 of 30

Sample Number : 22117506-4
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.35	%	Flow Rate (Actual O2)	385337	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:50 AM - 12:38 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anusav Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 7 of 30

Sample Number : 22117506-5
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.8	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.3	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	9.08	%	Flow Rate (Actual O2)	384483	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:45 PM - 01:33 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Kanokorn Anek
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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 8 of 30

Sample Number : 22117506-5
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.8	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.3	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	9.08	%	Flow Rate (Actual O2)	384483	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	12:45 PM - 01:33 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 9 of 30

Sample Number : 22117506-6
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.0	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.49	%	Flow Rate (Actual O2)	384783	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:40 PM - 02:28 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 10 of 30

Sample Number : 22117506-6
Sampled Date : Oct 22, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.0	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	97.0	°C	Gas Velocity	22.3	m/s	
Type of Fuel	Natural Gas		Moisture	9.49	%	Flow Rate (Actual O2)	384783	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:40 PM - 02:28 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 11 of 30

Sample Number 22117506-7
Sampled Date Oct 22, 2022
Sample Description Emission from Stationary Source
Location HRS632
Date Analysis Commenced Oct 25, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	9.26	%	Flow Rate (Actual O2)	384189	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:35 PM - 03:23 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 12 of 30

Sample Number 22117506-7
Sampled Date Oct 22, 2022
Sample Description Emission from Stationary Source
Location HRS632
Date Analysis Commenced Oct 25, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.9	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	9.26	%	Flow Rate (Actual O2)	384189	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:35 PM - 03:23 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anusav Mungpai

Remark :

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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number 22117506-8
Sampled Date Oct 22, 2022
Sample Description Emission from Stationary Source
Location HRS632
Date Analysis Commenced Oct 25, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.8	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.4	m/s	
Type of Fuel	Natural Gas		Moisture	9.66	%	Flow Rate (Actual O2)	386350	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:30 PM - 04:18 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 14 of 30

Sample Number 22117506-8
Sampled Date Oct 22, 2022
Sample Description Emission from Stationary Source
Location HRS632
Date Analysis Commenced Oct 25, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	13.8	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.4	m/s	
Type of Fuel	Natural Gas		Moisture	9.66	%	Flow Rate (Actual O2)	386350	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	03:30 PM - 04:18 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต สบ หรือจำหน่ายผลิตภัณฑ์ไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anusav Mungpai

Remark :

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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 15 of 30

Sample Number : 22117506-9
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	8.94	%	Flow Rate (Actual O2)	396749	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number : 22117506-9
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	8.94	%	Flow Rate (Actual O2)	396749	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:00 AM - 10:48 AM	g/s	-	-	<0.06	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 17 of 30

Sample Number : 22117506-10
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.3	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.25	%	Flow Rate (Actual O2)	395456	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:55 AM - 11:43 AM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
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Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number : 22117506-10
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.3	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.25	%	Flow Rate (Actual O2)	395456	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:55 AM - 11:43 AM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalerthamrong
Scientist (4)
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Approved by

Kanokorn Anek
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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 19 of 30

Sample Number : 22117506-11
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.61	%	Flow Rate (Actual O2)	394349	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:50 AM - 12:38 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 20 of 30

Sample Number : 22117506-11
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	96.0	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.61	%	Flow Rate (Actual O2)	394349	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:50 AM - 12:38 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number : 22117506-12
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	95.7	°C	Gas Velocity	22.6	m/s	
Type of Fuel	Natural Gas		Moisture	8.81	%	Flow Rate (Actual O2)	395471	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	12:45 PM - 01:33 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number : 22117506-12
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	95.7	°C	Gas Velocity	22.6	m/s	
Type of Fuel	Natural Gas		Moisture	8.81	%	Flow Rate (Actual O2)	395471	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	12:45 PM - 01:33 PM	g/s	-	-	<0.05	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 23 of 30

Sample Number : 22117506-13
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.05	%	Flow Rate (Actual O2)	396182	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:40 PM - 02:28 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

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Approved by

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

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Sample Number : 22117506-13
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.2	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.8	m/s	
Type of Fuel	Natural Gas		Moisture	9.05	%	Flow Rate (Actual O2)	396182	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	01:40 PM - 02:28 PM	g/s	-	-	<0.06	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

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Technical Management

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 25 of 30

Sample Number : 22117506-14
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	8.72	%	Flow Rate (Actual O2)	399244	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:35 PM - 03:23 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

Saranya C.
Saranya Chalerthamrong
Scientist (4)
โทรศัพท์ : 2-204-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
โทรศัพท์ : 2-204-4711

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 26 of 30

Sample Number : 22117506-14
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	8.72	%	Flow Rate (Actual O2)	399244	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:35 PM - 03:23 PM	g/s	-	-	<0.06	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Saranya Chalerthamrong
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Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
โทรศัพท์ : 2-204-4711

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 27 of 30

Sample Number : 22117506-15
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	9.07	%	Flow Rate (Actual O2)	397972	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:30 PM - 04:18 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

Saranya C.
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โทรศัพท์ 02-204-4717

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 28 of 30

Sample Number : 22117506-15
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	9.07	%	Flow Rate (Actual O2)	397972	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	03:30 PM - 04:18 PM	g/s	-	-	<0.06	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
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Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Saranya C.
Saranya Chalerthamrong
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Approved by

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Kanokorn Anek
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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 29 of 30

Sample Number : 22117506-16
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	8.82	%	Flow Rate (Actual O2)	398872	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	04:25 PM - 05:13 PM	mg/m3	-	0.5	<0.5	60	20	US EPA, Method 5	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Technical Management

Saranya C.
Saranya Chalerthamrong
Scientist (4)
โทรศัพท์ 02-204-4717

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรศัพท์ 02-204-4711

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Analysis / Test Report



TESTING
No.0009

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received : Oct 24, 2022
Date Reported : Nov 04, 2022
Report Number: 2443600-1

Page 30 of 30

Sample Number : 22117506-16
Sampled Date : Oct 23, 2022
Sample Description : Emission from Stationary Source
Location : HRS632
Date Analysis Commenced : Oct 25, 2022
Condition of Sample : Extracted into one filter paper placed in plastic petri dish

Stack Description									
Ambient Pressure	758	mmHg	Diameter	2.90	m	Oxygen	14.3	%	
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	96.5	°C	Gas Velocity	22.9	m/s	
Type of Fuel	Natural Gas		Moisture	8.82	%	Flow Rate (Actual O2)	398872	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	04:25 PM - 05:13 PM	g/s	-	-	<0.06	-	1.30	Calculated	Bangkok

Guideline : Guideline(1)
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงานผลิต ส่ว หรือจำหน่ายพลังงานไฟฟ้า พ.ศ. 2547
- ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการปล่อยทิ้งอากาศเสียจากโรงไฟฟ้า พ.ศ.2553
Guideline(2)
- Environmental Impact Assessment Report of Anata B. Grimm Power (Rayong) 3 Limited, 2016 (B.E. 2559)

Sampled By : Anuvut Mungpai

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalerthamrong
Scientist (4)
โทรศัพท์ 02-204-4717

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรศัพท์ 02-204-4711

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received: Oct 24, 2022
Date Reported: Nov 21, 2022
Report Number: 2474392-1

Page 1 of 2

Sample Number : 22117506-1
Sampled Date : Oct 22-23, 2022
Sample Description : Emission from Stationary Source
Location : HRSG32
Parameter : Opacity Correlation

Opacity Correlation Test Report

No. Samples	Date	Time		CEMs Values (PM, mg/m3)	RM Values (PM at 7%O ₂ , mg/m3)	Percent of Maximum PM Value (%)
		Start	Stop			
1	22 Oct 22	10:00	10:48	0.62	0.121	50.17
2	22 Oct 22	10:55	11:43	0.64	0.120	49.78
3	22 Oct 22	11:50	12:38	0.63	0.241	99.61
4	22 Oct 22	12:45	13:33	0.56	0.121	50.06
5	22 Oct 22	13:40	14:28	0.51	0.121	49.93
6	22 Oct 22	14:35	15:23	0.48	0.122	50.31
7	22 Oct 22	15:30	16:18	0.87	0.242	100.00
8	23 Oct 22	10:00	10:43	0.69	0.118	48.67
9	23 Oct 22	10:55	11:43	0.71	0.236	97.88
10	23 Oct 22	11:50	12:38	0.72	0.236	97.60
11	23 Oct 22	12:45	13:33	0.61	0.238	98.71
12	23 Oct 22	13:40	14:28	0.57	0.118	48.66
13	23 Oct 22	14:35	15:23	0.44	0.118	48.68
14	23 Oct 22	15:30	16:18	0.35	0.118	48.74
15	23 Oct 22	16:25	17:13	0.40	0.118	48.79
Average				0.59	0.16	-

Reference Method : US EPA Method 5 / PS-11

Remark : * Sample with * is rejected data

Technical Management :
Wichan Choonharat
Manager
โทรศัพท์มือถือ : 02-04-6113

Approved by :
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ : 02-04-4702

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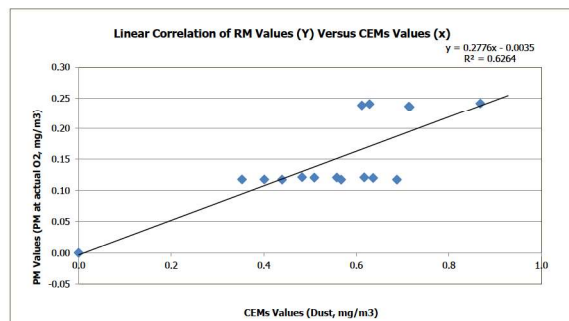
Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22117506
Date Received: Oct 24, 2022
Date Reported: Nov 21, 2022
Report Number: 2474392-1

Page 2 of 2

Sample Number : 22117506-1
Sampled Date : Oct 22-23, 2022
Sample Description : Emission from Stationary Source
Location : HRSG32
Parameter : Opacity Correlation



Sampled By : Anuvat Mounpair

Technical Management :
Wichan Choonharat
Manager
โทรศัพท์มือถือ : 02-04-6113

Approved by :
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ : 02-04-4702

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ภาคผนวก ค-3

คุณภาพอากาศในบรรยากาศโดยทั่วไป



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 221320056
Project Name : ABPR 3
Project Location :

Lot ID: 2326055
Date Received : Mar 29, 2023
Date Reported : Apr 17, 2023
Report Number: 2587647-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	โรงหมักขยะอินทรีย์และกากอาหารหมูและไก่						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2326055-1	2326055-2	2326055-3	2326055-4	2326055-5	2326055-6	2326055-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.007	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.005	0.008	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.005	0.008	0.006	0.004	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.008	0.005	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.006	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.005
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.007	0.004	0.004	0.005
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.006	0.004	0.004	0.003
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.005	0.004	0.004	0.003
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.005	0.006	0.004	0.003
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.008	0.004	0.003
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.008	0.004	0.003
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.007	0.004	0.003
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.005	0.004	0.003
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.007	0.004	0.004	0.004	0.003
11:00 AM - 12:00 PM	0.004	0.004	0.006	0.004	0.004	0.004	0.003
12:00 PM - 01:00 PM	0.004	0.004	0.007	0.004	0.004	0.004	0.003
Average	0.004	0.004	0.004	0.005	0.005	0.004	0.003
1hr - Maximum	0.004	0.004	0.007	0.008	0.008	0.004	0.005
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Life Sciences

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9773-41



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 221320056
Project Name : ABPR 3
Project Location :

Lot ID: 2326375
Date Received : Mar 29, 2023
Date Reported : Apr 17, 2023
Report Number: 2587649-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	โรงหมักขยะอินทรีย์และกากอาหารหมูและไก่						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2326375-1	2326375-2	2326375-3	2326375-4	2326375-5	2326375-6	2326375-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
10:00 AM - 11:00 AM	0.002	0.002	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.002	0.002	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.002	0.003	0.002	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.002	0.003	0.002	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.002	0.003	0.002	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.002	0.003	0.002	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.002	0.003	0.003	0.003	0.004	0.003	0.003
10:00 PM - 11:00 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.002	0.002	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.002	0.002	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.002	0.003	0.004	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.002	0.002	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.002	0.003	0.003	0.003	0.003	0.019	0.003
09:00 AM - 10:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.002	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.004	0.003	0.004	0.019	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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9773-41



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329155
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2594255-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงหมักขยะอินทรีย์และกากอาหารหมูและไก่						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2329155-1	2329155-2	2329155-3	2329155-4	2329155-5	2329155-6	2329155-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
09:00 AM - 10:00 AM	0.002	0.003	0.002	0.002	0.002	0.001	0.001
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.001	0.001
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.004	0.004	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.014	0.002	0.003	0.004	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.016	0.002	0.002	0.004	0.001
03:00 PM - 04:00 PM	0.002	0.002	0.004	0.002	0.002	0.002	0.001
04:00 PM - 05:00 PM	0.002	0.005	0.016	0.002	0.002	0.002	0.001
05:00 PM - 06:00 PM	0.002	0.006	0.004	0.002	0.003	0.004	0.001
06:00 PM - 07:00 PM	0.003	0.004	0.016	0.002	0.002	0.004	0.001
07:00 PM - 08:00 PM	0.007	0.004	0.013	0.002	0.002	0.003	0.002
08:00 PM - 09:00 PM	0.003	0.005	0.002	0.002	0.002	0.003	0.002
09:00 PM - 10:00 PM	0.003	0.006	0.014	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.007	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.003	0.006	0.002	0.002	0.002	0.003	0.002
12:00 AM - 01:00 AM	0.002	0.005	0.004	0.002	0.002	0.003	0.002
01:00 AM - 02:00 AM	0.003	0.008	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.004	0.010	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.007	0.012	0.002	0.002	0.003	0.003	0.002
04:00 AM - 05:00 AM	0.002	0.010	0.002	0.002	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.002	0.004	0.002	0.002	0.012	0.003	0.006
06:00 AM - 07:00 AM	0.004	0.003	0.002	0.002	0.002	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	0.004
08:00 AM - 09:00 AM	0.003	0.002	0.002	0.002	0.001	0.002	0.003
Average	0.003	0.005	0.005	0.002	0.003	0.003	0.002
1hr - Maximum	0.007	0.012	0.016	0.002	0.012	0.004	0.006
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329158
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2594766-1

Page 1 of 1

Sample Description	Air Quality						
Location	ศูนย์พัฒนาที่ดินและเกษตรกรรมสวนกล้วย ตำบล กล้วยนา						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontachi Uppathamp						
	2329158-1	2329158-2	2329158-3	2329158-4	2329158-5	2329158-6	2329158-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
08:00 AM - 09:00 AM	0.004	0.004	0.008	0.003	0.015	0.003	0.003
09:00 AM - 10:00 AM	0.005	0.005	0.004	0.004	0.028	0.003	0.005
10:00 AM - 11:00 AM	0.003	0.004	0.015	0.005	0.005	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.004	0.003	0.005	0.017	0.005	0.004
12:00 PM - 01:00 PM	0.007	0.006	0.003	0.005	0.006	0.004	0.005
01:00 PM - 02:00 PM	0.006	0.008	0.003	0.004	0.018	0.003	0.005
02:00 PM - 03:00 PM	0.004	0.003	0.004	0.003	0.015	0.003	0.005
03:00 PM - 04:00 PM	0.004	0.004	0.003	0.003	0.008	0.003	0.003
04:00 PM - 05:00 PM	0.005	0.006	0.003	0.005	0.007	0.003	0.003
05:00 PM - 06:00 PM	0.007	0.004	0.003	0.004	0.009	0.004	0.005
06:00 PM - 07:00 PM	0.004	0.005	0.003	0.003	0.011	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.004	0.003	0.004	0.013	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.004	0.003	0.004	0.011	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.004	0.003	0.005	0.006	0.003	0.004
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.005	0.007	0.003	0.004
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.005	0.004	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.005	0.003	0.004
01:00 AM - 02:00 AM	0.003	0.004	0.003	0.003	0.004	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.006	0.003	0.005	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.007	0.003	0.004	0.004	0.003	0.003
04:00 AM - 05:00 AM	0.005	0.005	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.008	0.005	0.003	0.003	0.003	0.003	0.004
06:00 AM - 07:00 AM	0.004	0.006	0.003	0.004	0.003	0.003	0.004
07:00 AM - 08:00 AM	0.004	0.007	0.005	0.004	0.003	0.003	0.003
Average	0.004	0.005	0.004	0.004	0.009	0.003	0.004
1hr - Maximum	0.008	0.008	0.015	0.005	0.028	0.005	0.005
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Pluakdaeng, Rayong 21140
P/O : 221300056
Project Name : ABPR 3
Project Location :

Lot ID: 2326376
Date Received : Mar 29, 2023
Date Reported : Apr 17, 2023
Report Number: 2587659-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	โรงแยกก๊าซศรีสมุทรพลังงานทดแทน						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2326376-1	2326376-2	2326376-3	2326376-4	2326376-5	2326376-6	2326376-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.001	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	<0.001	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.003	0.002	0.002	0.002	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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9773-41



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Pluakdaeng, Rayong 21140
P/O : 221300056
Project Name : ABPR 3
Project Location :

Lot ID: 2326379
Date Received : Mar 29, 2023
Date Reported : Apr 17, 2023
Report Number: 2587661-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	โรงแยกก๊าซศรีสมุทร						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2326379-1	2326379-2	2326379-3	2326379-4	2326379-5	2326379-6	2326379-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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9773-41



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329159
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2594270-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงแยกก๊าซศรีสมุทรพลังงานทดแทน						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Mar 21, 2023 - Mar 28, 2023						
Measurement by	Nontchai Uppathamp						
	2329159-1	2329159-2	2329159-3	2329159-4	2329159-5	2329159-6	2329159-7
Time	Mar 21, 2023	Mar 22, 2023	Mar 23, 2023	Mar 24, 2023	Mar 25, 2023	Mar 26, 2023	Mar 27, 2023
09:00 AM - 10:00 AM	0.001	0.001	0.002	0.002	0.001	0.002	0.002
10:00 AM - 11:00 AM	0.001	0.001	0.002	0.001	0.001	0.003	0.002
11:00 AM - 12:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.001	0.001	0.002	0.001	0.001	0.002	0.002
06:00 PM - 07:00 PM	0.001	0.001	0.002	0.003	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.001	0.002	0.002	0.002	0.001	0.004	0.002
08:00 PM - 09:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.001	0.002	0.001	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.001	0.001	0.001	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.001	0.001	0.001	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.001	0.001	0.001	0.001	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.001	0.001	0.001	0.001	0.001	0.002	0.002
03:00 AM - 04:00 AM	0.001	0.002	0.001	0.001	0.001	0.002	0.002
04:00 AM - 05:00 AM	0.001	0.002	0.001	0.001	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.001	0.002	0.001	0.001	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.001	0.002	0.001	0.001	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.001	0.002	0.001	0.001	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.001	0.002	0.001	0.002	0.002	0.002	0.002
Average	0.001	0.001	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.001	0.002	0.002	0.003	0.002	0.004	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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10717-21

S:\Reports_Air Son\Nt.rpt (6:34PM)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpore, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 221320056
Project Name : ABPR 3
Project Location :

Lot ID: 2326378
Date Received : Mar 29, 2023
Date Reported : Apr 11, 2023
Report Number : 2587667-1C2

Page 1 of 1

Sample Description Air Quality
Location โรงงานผลิตและประกอบชิ้นส่วนอากาศยาน
Date Analysis Commenced Mar 30, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2326378-1	Mar 21 - Mar 22, 2023	0.106	0.022	753	32
2326378-2	Mar 22 - Mar 23, 2023	0.098	0.022	753	32
2326378-3	Mar 23 - Mar 24, 2023	0.122	0.022	753	31
2326378-4	Mar 24 - Mar 25, 2023	0.105	0.023	753	33
2326378-5	Mar 25 - Mar 26, 2023	0.109	0.021	753	32
2326378-6	Mar 26 - Mar 27, 2023	0.129	0.027	753	32
2326378-7	Mar 27 - Mar 28, 2023	0.136	0.025	753	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 221320056
Project Name : ABPR 3
Project Location :

Lot ID: 2326381
Date Received : Mar 29, 2023
Date Reported : Apr 11, 2023
Report Number : 2587670-1C2

Page 1 of 1

Sample Description Air Quality
Location โรงงานผลิตและประกอบชิ้นส่วนอากาศยาน
Date Analysis Commenced Mar 30, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2326381-1	Mar 21 - Mar 22, 2023	0.129	0.060	753	32
2326381-2	Mar 22 - Mar 23, 2023	0.211	0.045	753	32
2326381-3	Mar 23 - Mar 24, 2023	0.277	0.060	753	31
2326381-4	Mar 24 - Mar 25, 2023	0.320	0.064	753	33
2326381-5	Mar 25 - Mar 26, 2023	0.226	0.046	753	32
2326381-6	Mar 26 - Mar 27, 2023	0.249	0.045	753	32
2326381-7	Mar 27 - Mar 28, 2023	0.287	0.056	753	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329161
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number : 2594314-1

Page 1 of 1

Sample Description Air Quality
Location ศูนย์พัฒนาผลิตภัณฑ์การบริการส่วนอากาศยาน
Date Analysis Commenced Mar 30, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2329161-1	Mar 21 - Mar 22, 2023	0.034	0.014	753	32
2329161-2	Mar 22 - Mar 23, 2023	0.034	0.013	753	32
2329161-3	Mar 23 - Mar 24, 2023	0.038	0.013	753	31
2329161-4	Mar 24 - Mar 25, 2023	0.041	0.014	753	33
2329161-5	Mar 25 - Mar 26, 2023	0.043	0.012	753	32
2329161-6	Mar 26 - Mar 27, 2023	0.040	0.012	753	32
2329161-7	Mar 27 - Mar 28, 2023	0.047	0.014	753	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329219
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number : 2594403-1

Page 1 of 1

Sample Description Air Quality
Location ศูนย์พัฒนาผลิตภัณฑ์การบริการส่วนอากาศยาน
Date Analysis Commenced Mar 30, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2329219-1	Mar 21 - Mar 22, 2023	0.058	0.020	753	32
2329219-2	Mar 22 - Mar 23, 2023	0.073	0.023	753	32
2329219-3	Mar 23 - Mar 24, 2023	0.069	0.020	753	31
2329219-4	Mar 24 - Mar 25, 2023	0.079	0.025	753	33
2329219-5	Mar 25 - Mar 26, 2023	0.134	0.041	753	32
2329219-6	Mar 26 - Mar 27, 2023	0.076	0.022	753	32
2329219-7	Mar 27 - Mar 28, 2023	0.070	0.022	753	32
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

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10717-21

S:\Report\Air Ambient\7Days.rpt (124PM)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID : 2326377
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2587663-1 CS

Page 1 of 2

Sample Number : 2326377-1 to 7
Parameter : Wind Speed / Wind Direction
Location : โรงงานผลิตสารเคมีภัณฑ์และงานเกษตร
Sampling Date : Mar 21 - Mar 28, 2023
Sampling by : Nontchai Uppathamp

Time	Mar 21 - Mar 22, 2023		Mar 22 - Mar 23, 2023		Mar 23 - Mar 24, 2023		Mar 24 - Mar 25, 2023		Mar 25 - Mar 26, 2023		Mar 26 - Mar 27, 2023		Mar 27 - Mar 28, 2023								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
01:00 PM - 02:00 PM	2.0	93.0	E	1.6	284.0	WNW	1.9	225.0	SW	1.9	159.0	SSE	1.1	121.0	ESE	2.1	105.0	ESE	0.9	225.0	SW
02:00 PM - 03:00 PM	1.5	121.0	ESE	1.2	162.0	SSE	1.8	159.0	SSE	1.4	112.0	ESE	1.6	110.0	ESE	3.6	90.0	E	3.4	143.0	SE
03:00 PM - 04:00 PM	0.7	121.0	ESE	1.4	100.0	E	2.8	211.0	SSW	1.1	145.0	SE	2.0	106.0	ESE	1.8	124.0	SE	2.1	153.0	SSE
04:00 PM - 05:00 PM	1.7	110.0	ESE	0.9	134.0	SE	5.7	204.0	SSW	1.5	170.0	S	3.9	91.0	E	2.2	85.0	E	4.2	124.0	SE
05:00 PM - 06:00 PM	0.9	152.0	SSE	1.0	238.0	WSW	3.5	214.0	SSW	2.9	191.0	S	1.3	121.0	ESE	3.5	96.0	E	1.6	168.0	SSE
06:00 PM - 07:00 PM	0.5	259.0	W	3.0	254.0	WSW	2.8	191.0	S	2.4	240.0	WSW	1.4	117.0	ESE	1.1	109.0	ESE	0.9	218.0	SW
07:00 PM - 08:00 PM	0.0	-	-	2.9	146.0	SE	3.6	230.0	SW	0.6	249.0	WSW	0.7	136.0	E	1.8	68.0	ENE	3.0	250.0	WSW
08:00 PM - 09:00 PM	1.9	252.0	WSW	2.1	222.0	SW	1.8	266.0	W	0.7	272.0	W	0.4	122.0	ESE	1.1	141.0	SE	2.0	269.0	W
09:00 PM - 10:00 PM	1.0	247.0	WSW	1.3	262.0	W	1.4	258.0	WSW	0.6	262.0	W	0.3	114.0	ESE	1.6	108.0	ESE	2.4	269.0	W
10:00 PM - 11:00 PM	1.4	149.0	SSE	0.8	114.0	ESE	0.2	-	2.3	280.0	W	0.9	112.0	ESE	1.0	97.0	E	1.9	237.0	WSW	
11:00 PM - 12:00 AM	1.8	150.0	SSE	1.7	176.0	S	0.3	145.0	SE	0.8	277.0	W	0.2	-	1.0	112.0	ESE	0.7	147.0	SSE	
12:00 AM - 01:00 AM	1.9	99.0	E	1.4	143.0	SE	0.0	-	0.0	-	1.9	114.0	ESE	0.7	98.0	E	0.1	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.3	88.0	E	0.0	-	0.5	91.0	E	0.3	122.0	ESE	0.5	88.0	E	0.3	79.0	E	-
02:00 AM - 03:00 AM	0.2	-	-	0.0	-	0.1	-	0.1	-	0.3	137.0	SE	0.0	-	0.3	84.0	E	-	-	-	-
03:00 AM - 04:00 AM	0.3	115.0	ESE	0.0	-	0.0	-	0.0	-	0.2	-	0.0	-	0.3	89.0	E	0.1	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	0.0	-	0.2	-	0.2	-	0.8	163.0	SSE	0.4	92.0	E	1.0	81.0	E	0.0	-	-
05:00 AM - 06:00 AM	0.2	-	-	0.0	-	0.0	-	0.2	-	0.2	-	0.4	111.0	ESE	1.3	91.0	E	0.0	-	-	-
06:00 AM - 07:00 AM	0.4	113.0	ESE	0.2	-	0.1	-	0.1	-	0.1	-	0.3	86.0	E	0.0	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.4	97.0	E	0.3	100.0	E	0.0	-	0.3	89.0	E	0.0	-	2.0	22.0	NNE	0.0	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	0.0	-	0.0	-	1.9	90.0	E	0.3	91.0	E	0.0	-	-	0.2	-	-
09:00 AM - 10:00 AM	0.0	-	-	0.1	-	0.4	79.0	E	0.5	86.0	E	0.1	-	0.1	-	0.1	-	-	0.5	84.0	E
10:00 AM - 11:00 AM	1.9	12.0	NNE	0.7	252.0	WSW	0.3	80.0	E	0.4	85.0	E	1.0	82.0	E	2.3	79.0	E	0.1	-	-
11:00 AM - 12:00 PM	2.1	110.0	ESE	2.4	130.0	SE	0.5	89.0	E	2.1	89.0	E	2.9	102.0	ESE	2.6	70.0	ENE	0.6	93.0	E
12:00 PM - 01:00 PM	2.1	210.0	SSW	3.2	209.0	SSW	0.1	-	1.4	114.0	ESE	3.8	92.0	E	3.5	229.0	SW	0.5	197.0	SSW	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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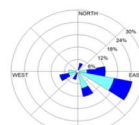
Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

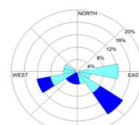
Lot ID : 2326377
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2587663-1 CS

Page 2 of 2

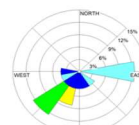
Wind Rose



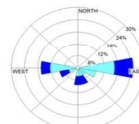
Date: Mar 21-22, 2023



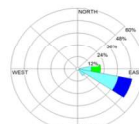
Date: Mar 22-23, 2023



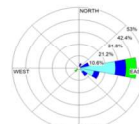
Date: Mar 23-24, 2023



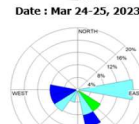
Date: Mar 24-25, 2023



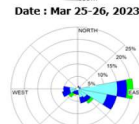
Date: Mar 25-26, 2023



Date: Mar 26-27, 2023



Date: Mar 27-28, 2023



Date: Mar 28-29, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	5.35
1.7-3.3	23.81
0.3-1.7	42.86
Calms	27.38

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID : 2326380
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2587665-1 CS

Page 1 of 2

Sample Number : 2326380-1 to 7
Parameter : Wind Speed / Wind Direction
Location : โรงงานผลิตสารเคมีภัณฑ์และงานเกษตร
Sampling Date : Mar 21 - Mar 28, 2023
Sampling by : Nontchai Uppathamp

Time	Mar 21 - Mar 22, 2023		Mar 22 - Mar 23, 2023		Mar 23 - Mar 24, 2023		Mar 24 - Mar 25, 2023		Mar 25 - Mar 26, 2023		Mar 26 - Mar 27, 2023		Mar 27 - Mar 28, 2023									
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)								
10:00 AM - 11:00 AM	0.2	-	-	3.7	180.0	S	2.8	151.0	SSE	3.7	144.0	SE	1.6	181.0	S	1.9	227.0	SW	3.7	150.0	SSE	
11:00 AM - 12:00 PM	2.9	171.0	S	2.3	162.0	SSE	2.5	189.0	S	4.2	190.0	S	4.1	175.0	S	2.9	176.0	S	3.1	148.0	SE	
12:00 PM - 01:00 PM	2.8	176.0	S	3.8	183.0	S	5.9	129.0	SE	3.2	177.0	S	3.0	174.0	S	2.6	181.0	S	3.7	97.0	E	
01:00 PM - 02:00 PM	3.1	194.0	SSW	3.9	170.0	S	2.5	212.0	SSW	3.4	188.0	S	3.7	144.0	SE	2.8	153.0	SSE	2.2	168.0	SSE	
02:00 PM - 03:00 PM	2.6	166.0	SSE	2.0	184.0	S	2.6	166.0	SSE	4.1	120.0	SSW	2.7	172.0	S	3.4	180.0	S	3.5	206.0	SSW	
03:00 PM - 04:00 PM	1.8	176.0	S	2.2	194.0	SSW	0.9	143.0	SE	1.3	177.0	SW	1.7	157.0	SSE	1.3	200.0	SSW	1.9	227.0	SW	
04:00 PM - 05:00 PM	1.1	217.0	SW	1.1	175.0	S	1.8	161.0	SSE	1.8	191.0	S	2.9	161.0	SSE	1.0	185.0	S	1.5	142.0	SE	
05:00 PM - 06:00 PM	0.1	-	-	0.7	288.0	SSW	2.4	174.0	S	0.9	211.0	SSW	2.8	104.0	S	1.1	149.0	SE	2.5	269.0	SSW	
06:00 PM - 07:00 PM	0.4	225.0	SW	0.5	221.0	SW	0.4	207.0	SSW	0.5	171.0	S	1.1	172.0	S	3.2	152.0	SSE	1.3	183.0	S	
07:00 PM - 08:00 PM	0.7	201.0	SSW	0.7	197.0	SSW	0.0	-	0.0	-	0.8	152.0	SSE	1.1	154.0	SE	0.9	186.0	S	-	-	
08:00 PM - 09:00 PM	1.0	179.0	S	0.7	214.0	SW	0.5	217.0	SW	0.4	111.0	ESE	1.0	170.0	S	0.6	141.0	SE	0.7	166.0	SSE	
09:00 PM - 10:00 PM	0.8	181.0	S	1.0	216.0	SW	1.9	233.0	SW	0.3	309.0	NW	0.6	175.0	S	1.2	231.0	SW	1.6	159.0	SSE	
10:00 PM - 11:00 PM	1.0	191.0	S	0.6	188.0	S	0.3	205.0	SSW	0.4	221.0	SW	1.6	169.0	S	0.3	213.0	SSW	1.4	173.0	S	
11:00 PM - 12:00 AM	0.5	223.0	SW	0.0	-	0.0	-	0.5	223.0	SW	0.0	-	0.2	-	0.0	-	0.0	-	-	-	-	
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	0.0	-	0.0	-	0.7	130.0	SE	0.5	181.0	S	0.1	-	-	0.0	-	-	
01:00 AM - 02:00 AM	0.0	-	-	0.3	219.0	SW	0.1	-	0.0	-	0.5	218.0	SW	0.0	-	0.0	-	-	0.8	158.0	SSE	
02:00 AM - 03:00 AM	0.2	-	-	0.6	195.0	SSW	0.0	-	0.0	-	0.6	163.0	SSE	0.6	326.0	NW	0.0	-	-	0.8	163.0	SSE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	0.0	-	0.0	-	0.3	304.0	NW	0.0	-	0.0	-	0.0	-	-	-	-	
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	0.0	-	0.0	-	1.6	204.0	SSW	0.0	-	0.0	-	0.0	-	-	-	-	
05:00 AM - 06:00 AM	0.5	208.0	SSW	1.9	160.0	SSE	2.0	144.0	SE	3.2	150.0	SSE	2.2	177.0	S	1.4	162.0	SSE	3.1	132.0	SE	
06:00 AM - 07:00 AM	1.7	176.0	S	2.9	185.0	S	2.1	133.0	SE	3.9	155.0	SSE	3.5	227.0	SW	2.5	195.0	SSW	2.0	154.0	SSE	
07:00 AM - 08:00 AM	2.3	183.0	S	1.7	196.0	SSE	1.4	175.0	S	4.5	194.0	SSW	3.8	165.0	SSE	1.2	226.0	SW	1.0	223.0	SW	
08:00 AM - 09:00 AM	2.0	159.0	SSE	2.7	195.0	SSW	1.3	227.0	SW	3.3	180.0	SSE	1.6	194.0	S	2.3	159.0	SSE	0.8	185.0	S	
09:00 AM - 10:00 AM	1.9	176.0	S	3.6	209.0	SSW	1.8	275.0	WSW	3.1	177.0	S	1.1	172.0	WSW	3.2	147.0	SSW	1.6	190.0	SE	



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Malyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID : 2329160
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2594282-1

Page 1 of 2

Sample Number : 2329160-1 to 7
Parameter : Wind Speed / Wind Direction
Location : พัทยา
Sampling Date : Mar 21 - Mar 28, 2023
Sampling by : Nontchai Uppathamp

Time	Mar 21 - Mar 22, 2023		Mar 22 - Mar 23, 2023		Mar 23 - Mar 24, 2023		Mar 24 - Mar 25, 2023		Mar 25 - Mar 26, 2023		Mar 26 - Mar 27, 2023		Mar 27 - Mar 28, 2023								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
09:00 AM - 10:00 AM	0.5	286.0	WNW	0.6	220.0	SW	0.8	281.0	W	1.9	108.0	ESE	1.8	280.0	W	1.9	286.0	WNW	1.0	169.0	S
10:00 AM - 11:00 AM	1.6	282.0	WNW	1.9	256.0	WSW	1.7	244.0	WSW	0.9	274.0	W	0.9	232.0	SW	0.1	-	-	2.0	103.0	ESE
11:00 AM - 12:00 PM	0.6	268.0	W	0.1	-	-	0.9	188.0	S	1.5	260.0	W	1.1	217.0	SW	2.8	277.0	W	1.3	239.0	WSW
12:00 PM - 01:00 PM	0.3	166.0	SSE	1.0	158.0	SSE	1.8	175.0	S	0.9	180.0	S	2.3	210.0	SSW	3.0	182.0	S	0.5	278.0	W
01:00 PM - 02:00 PM	0.7	172.0	S	0.1	-	-	0.7	155.0	SE	1.5	200.0	SSW	1.6	171.0	S	3.4	191.0	S	0.6	205.0	SSW
02:00 PM - 03:00 PM	1.2	182.0	S	0.5	230.0	SW	1.5	272.0	W	1.2	213.0	SSW	2.5	174.0	S	1.6	171.0	S	0.4	278.0	W
03:00 PM - 04:00 PM	0.7	300.0	WNW	0.4	270.0	W	1.0	143.0	SE	1.0	166.0	SSE	2.4	170.0	S	2.8	127.0	SE	0.2	-	-
04:00 PM - 05:00 PM	0.1	-	-	0.1	-	-	0.6	197.0	SSW	0.2	-	-	3.0	155.0	SSE	3.0	183.0	S	0.1	-	-
05:00 PM - 06:00 PM	0.2	-	-	0.3	206.0	SSW	1.5	275.0	W	0.8	167.0	SSE	4.2	191.0	S	1.2	155.0	SSE	0.5	237.0	WSW
06:00 PM - 07:00 PM	0.3	271.0	W	0.2	-	-	0.6	275.0	W	0.6	171.0	S	1.6	274.0	W	1.6	155.0	SSE	0.6	267.0	W
07:00 PM - 08:00 PM	0.4	189.0	S	0.2	-	-	0.8	258.0	WSW	0.2	-	-	1.4	286.0	WNW	0.8	278.0	W	1.2	154.0	SSE
08:00 PM - 09:00 PM	0.1	-	-	0.1	-	-	0.3	221.0	SW	0.4	251.0	WSW	2.3	179.0	S	1.2	278.0	W	0.8	187.0	S
09:00 PM - 10:00 PM	0.2	-	-	0.3	263.0	W	0.1	-	0.0	-	-	0.5	182.0	S	1.4	278.0	W	0.8	205.0	SSW	
10:00 PM - 11:00 PM	0.1	-	-	0.2	-	-	0.3	274.0	W	0.3	184.0	S	0.8	289.0	WNW	0.6	279.0	W	1.2	136.0	SE
11:00 PM - 12:00 AM	0.1	-	-	0.1	-	-	0.2	-	-	0.4	194.0	S	0.4	308.0	NW	0.5	151.0	SSE	0.9	138.0	SE
12:00 AM - 01:00 AM	0.1	-	-	0.5	277.0	W	0.4	166.0	SSE	0.1	-	-	1.0	205.0	SSW	0.1	-	-	0.4	138.0	SE
01:00 AM - 02:00 AM	0.1	-	-	0.6	265.0	W	0.1	-	0.2	-	-	0.6	290.0	WNW	0.2	-	-	0.6	139.0	SE	
02:00 AM - 03:00 AM	0.2	-	-	0.2	-	-	0.0	-	0.2	-	-	0.4	234.0	SW	0.3	183.0	S	1.7	142.0	SE	
03:00 AM - 04:00 AM	1.0	266.0	W	1.0	271.0	W	0.3	293.0	WNW	0.9	181.0	SSE	0.8	164.0	SSE	0.4	288.0	WNW	0.5	279.0	W
04:00 AM - 05:00 AM	0.1	-	-	0.9	296.0	WNW	0.7	281.0	SSW	1.2	237.0	WSW	1.4	241.0	WSW	0.2	-	-	0.2	-	-
05:00 AM - 06:00 AM	0.1	-	-	0.4	105.0	ESE	0.6	140.0	SE	1.0	255.0	WSW	2.7	262.0	W	1.2	288.0	SSW	0.4	250.0	WSW
06:00 AM - 07:00 AM	0.2	-	-	0.8	164.0	SSE	1.2	163.0	SSE	0.5	322.0	NW	1.1	232.0	SW	1.6	255.0	WSW	0.1	-	-
07:00 AM - 08:00 AM	0.3	271.0	W	0.6	156.0	SSE	1.0	173.0	S	0.3	246.0	WSW	0.1	-	-	2.0	170.0	S	0.6	358.0	N
08:00 AM - 09:00 AM	1.0	294.0	WNW	1.8	159.0	SSE	1.1	251.0	WSW	1.0	308.0	NW	1.7	290.0	WNW	1.1	235.0	SW	0.2	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuht Jitranont

Assistant General Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Malyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

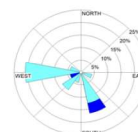
Lot ID : 2329160
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2594282-1

Page 2 of 2

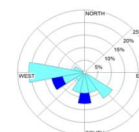
Wind Rose



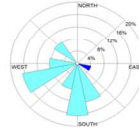
Date : Mar 21-22, 2023



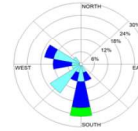
Date : Mar 22-23, 2023



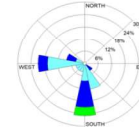
Date : Mar 23-24, 2023



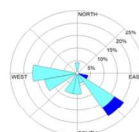
Date : Mar 24-25, 2023



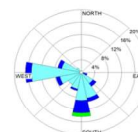
Date : Mar 25-26, 2023



Date : Mar 26-27, 2023



Date : Mar 27-28, 2023



Date : Mar 28-29, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.19
1.7-3.3	12.50
0.3-1.7	61.91
Calms	24.40

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuht Jitranont

Assistant General Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Malyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID : 2329181
Date Received : Mar 29, 2023
Date Reported : Apr 06, 2023
Report Number : 2594286-1

Page 1 of 2

Sample Number : 2329181-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ศูนย์พัฒนาโครงการพัฒนาระบบนิเวศน์เกษตรกรรม
Sampling Date : Mar 21 - Mar 28, 2023
Sampling by : Nontchai Uppathamp

Time	Mar 21 - Mar 22, 2023		Mar 22 - Mar 23, 2023		Mar 23 - Mar 24, 2023		Mar 24 - Mar 25, 2023		Mar 25 - Mar 26, 2023		Mar 26 - Mar 27, 2023		Mar 27 - Mar 28, 2023								
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
08:00 AM - 09:00 AM	1.2	172.0	S	0.4	167.0	SSE	5.0	127.0	SE	3.6	121.0	ESE	5.4	138.0	SE	2.2	92.0	E	-	-	
09:00 AM - 10:00 AM	0.9	210.0	SSW	4.2	129.0	SE	1.2	188.0	S	5.3	117.0	ESE	1.0	217.0	SW	4.4	129.0	SE	1.0	155.0	SSE
10:00 AM - 11:00 AM	2.7	95.0	E	2.6	129.0	SE	0.7	141.0	SE	2.7	139.0	SE	2.9	120.0	ESE	5.2	157.0	SSE	1.5	292.0	WNW
11:00 AM - 12:00 PM	2.3	142.0	SE	2.6	129.0	SE	3.0	120.0	ESE	1.1	151.0	SSE	3.0	132.0	SE	3.5	138.0	SE	1.4	123.0	ESE
12:00 PM - 01:00 PM	1.8	116.0	ESE	2.1	146.0	SE	1.2	195.0	SSW	1.6	153.0	SSE	2.7	128.0	SE	0.7	138.0	SE	0.3	207.0	SSW
01:00 PM - 02:00 PM	2.0	110.0	ESE	0.0	-	-	1.7	123.0	ESE	1.5	114.0	ESE	1.9	124.0	SE	0.0	-	-	0.0	-	-
02:00 PM - 03:00 PM	1.1	139.0	SE	1.0	128.0	SE	1.9	130.0	SE	0.0	-	-	1.3	274.0	W	0.0	-	-	0.0	-	-
03:00 PM - 04:00 PM	1.7	136.0	SE	1.1	144.0	SE	1.4	129.0	SE	0.0	-	-	2.7	109.0	SE	0.0	-	-	1.2	131.0	SE
04:00 PM - 05:00 PM	1.0	140.0	SE	1.4	132.0	SE	0.1	-	-	0.0	-	-	2.9	128.0	SE	0.0	-	-	0.5	108.0	ESE
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.7	110.0	ESE	0.6	130.0	SE	0.6	124.0	SE
06:00 PM - 07:00 PM	2.6	127.0	SE	0.3	120.0	ESE	0.0	-	-	0.0	-	-	2.5	137.0	SE	0.0	-	-	1.7	130.0	SE
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.6	129.0	SE	0.7	130.0	SE	1.0	131.0	SE
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	1.0	94.0	E	1.3	130.0	SE	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	2.6	126.0	SE	0.0	-	-	0.4	92.0	E	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.5	88.0	E	0.0	-	-	0.0	-	-	0.7	82.0	E
01:00 AM - 02:00 AM	0.9	150.0	SSE	3.0	107.0	ESE	0.3	104.0	ESE	1.4	127.0	SE	2.3	157.0	SSE	3.0	143.0	SE	0.0	-	-
02:00 AM - 03:00 AM	1.8	112.0	ESE	2.1	203.0	SSW	2.4	159.0	SSE	2.7	156.0	SSE	3.1	122.0	ESE	2.7	129.0	SE	0.6	31.0	NNE
03:00 AM - 04:00 AM	0.7	206.0	SSW	3.7	108.0	ESE	2.4	124.0	SE	1.4	121.0	ESE	1.6	184.0	S	0.8	142.0	SE	0.6	339.0	WNW
04:00 AM - 05:00 AM	0.2	-	-	0.4	256.0	WSW	1.5	107.0	ESE	0.3	98.0	E	0.2	-	-	4.0	135.0	SE	0.0	-	-
05:00 AM - 06:00 AM	0.9	338.0	WNW	1.6	132.0	SE	3.4	146.0	SE	3.3	138.0	SE	3.5	150.0	SSE	2.1	125.0	SE	0.0	-	-
06:00 AM - 07:00 AM	1.6	79.0	E	4.5	151.0	SSE	1.9	129.0	SE	4.8	132.0	SE	2.8	123.0	ESE	3.2	110.0	ESE	0.2	-	-
07:00 AM - 08:00 AM	4.5	120.0	ESF	0.8	210.0	SSW	4.1	118.0	ESF	4.6	123.0	ESF	5.0	127.0	SE	4.4	101.0	SE	0.8	84.0	SE

ภาคผนวก ค-4

ระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329221
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611822-1

Page 1 of 1

Sample Number : 2329221-5
Parameter : Noise (Leq 24 hrs.)
Location : โรงต้มยางพารา
Measurement Date : Mar 25 - Mar 26, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.1	55.0	44.0
11:00 AM - 12:00 PM	46.5	63.2	44.9
12:00 PM - 01:00 PM	47.3	63.2	43.4
01:00 PM - 02:00 PM	51.5	74.4	45.9
02:00 PM - 03:00 PM	50.1	74.7	45.6
03:00 PM - 04:00 PM	49.2	75.3	42.6
04:00 PM - 05:00 PM	50.7	74.1	41.2
05:00 PM - 06:00 PM	53.9	81.9	39.7
06:00 PM - 07:00 PM	46.2	74.4	38.6
07:00 PM - 08:00 PM	48.9	72.7	39.9
08:00 PM - 09:00 PM	46.1	67.6	40.3
09:00 PM - 10:00 PM	49.5	72.9	46.4
10:00 PM - 11:00 PM	50.2	77.4	43.9
11:00 PM - 12:00 AM	48.4	72.5	42.9
12:00 AM - 01:00 AM	48.8	72.1	44.0
01:00 AM - 02:00 AM	49.0	80.7	43.0
02:00 AM - 03:00 AM	56.2	63.6	51.7
03:00 AM - 04:00 AM	55.1	64.4	44.9
04:00 AM - 05:00 AM	48.6	66.8	44.8
05:00 AM - 06:00 AM	49.2	63.0	45.3
06:00 AM - 07:00 AM	49.8	64.2	45.1
07:00 AM - 08:00 AM	49.4	63.2	45.4
08:00 AM - 09:00 AM	48.2	65.9	45.1
09:00 AM - 10:00 AM	50.3	76.8	45.1

Leq Average 24 hrs. (dB(A)) : 50.4
Lmax (dB(A)) : 81.9
L90 (dB(A)) : 44.0
Ldn (dB(A)) : 57.8
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Suppt Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1.33P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329221
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611823-1

Page 1 of 1

Sample Number : 2329221-6
Parameter : Noise (Leq 24 hrs.)
Location : โรงต้มยางพารา
Measurement Date : Mar 26 - Mar 27, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.2	65.6	45.8
11:00 AM - 12:00 PM	48.4	77.2	44.2
12:00 PM - 01:00 PM	51.0	76.9	43.9
01:00 PM - 02:00 PM	56.1	88.5	46.6
02:00 PM - 03:00 PM	51.5	74.9	47.4
03:00 PM - 04:00 PM	55.3	89.6	44.3
04:00 PM - 05:00 PM	46.3	67.8	40.6
05:00 PM - 06:00 PM	50.4	78.8	39.6
06:00 PM - 07:00 PM	51.5	73.4	39.6
07:00 PM - 08:00 PM	45.4	75.7	39.0
08:00 PM - 09:00 PM	45.8	65.2	39.3
09:00 PM - 10:00 PM	46.8	66.2	40.0
10:00 PM - 11:00 PM	58.4	70.2	40.6
11:00 PM - 12:00 AM	45.7	66.9	41.1
12:00 AM - 01:00 AM	48.8	68.0	42.7
01:00 AM - 02:00 AM	47.7	77.7	42.3
02:00 AM - 03:00 AM	58.4	66.2	53.8
03:00 AM - 04:00 AM	52.4	62.3	44.8
04:00 AM - 05:00 AM	54.0	62.6	45.8
05:00 AM - 06:00 AM	49.0	69.1	45.0
06:00 AM - 07:00 AM	47.3	61.5	44.9
07:00 AM - 08:00 AM	46.5	60.9	45.1
08:00 AM - 09:00 AM	46.0	66.8	44.4
09:00 AM - 10:00 AM	46.3	64.4	44.7

Leq Average 24 hrs. (dB(A)) : 51.2
Lmax (dB(A)) : 89.6
L90 (dB(A)) : 44.2
Ldn (dB(A)) : 58.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Suppt Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1.33P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329221
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611824-1

Page 1 of 1

Sample Number : 2329221-7
Parameter : Noise (Leq 24 hrs.)
Location : โรงต้มยางพารา
Measurement Date : Mar 27 - Mar 28, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.2	61.6	44.3
11:00 AM - 12:00 PM	45.4	63.7	43.4
12:00 PM - 01:00 PM	47.6	65.5	43.2
01:00 PM - 02:00 PM	53.3	81.5	45.7
02:00 PM - 03:00 PM	52.2	73.9	46.9
03:00 PM - 04:00 PM	53.1	91.7	45.5
04:00 PM - 05:00 PM	49.0	69.0	46.6
05:00 PM - 06:00 PM	48.5	60.3	47.0
06:00 PM - 07:00 PM	46.1	63.8	43.6
07:00 PM - 08:00 PM	45.2	56.7	42.8
08:00 PM - 09:00 PM	45.6	61.5	43.5
09:00 PM - 10:00 PM	55.7	26.9	45.8
10:00 PM - 11:00 PM	49.2	77.4	45.2
11:00 PM - 12:00 AM	48.7	58.1	47.6
12:00 AM - 01:00 AM	48.5	57.6	47.3
01:00 AM - 02:00 AM	48.2	57.5	46.8
02:00 AM - 03:00 AM	48.0	56.3	46.4
03:00 AM - 04:00 AM	46.9	56.7	45.5
04:00 AM - 05:00 AM	46.2	53.6	44.8
05:00 AM - 06:00 AM	46.2	52.4	44.7
06:00 AM - 07:00 AM	48.5	62.6	46.0
07:00 AM - 08:00 AM	48.3	60.1	44.9
08:00 AM - 09:00 AM	46.0	60.7	43.5
09:00 AM - 10:00 AM	49.9	82.1	44.7

Leq Average 24 hrs. (dB(A)) : 48.7
Lmax (dB(A)) : 91.7
L90 (dB(A)) : 44.9
Ldn (dB(A)) : 54.6
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Suppt Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1.34P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611810-1

Page 1 of 1

Sample Number : 2329222-1
Parameter : Noise (Leq 24 hrs.)
Location : โรงต้มยางพารา
Measurement Date : Mar 21 - Mar 22, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	39.6	100.2	41.3
10:00 AM - 11:00 AM	56.0	86.7	41.2
11:00 AM - 12:00 PM	51.0	74.2	40.2
12:00 PM - 01:00 PM	54.0	75.6	41.6
01:00 PM - 02:00 PM	51.6	74.9	42.5
02:00 PM - 03:00 PM	53.9	79.6	43.0
03:00 PM - 04:00 PM	53.7	83.3	42.9
04:00 PM - 05:00 PM	55.7	79.3	44.0
05:00 PM - 06:00 PM	54.6	76.7	44.3
06:00 PM - 07:00 PM	54.4	75.2	48.6
07:00 PM - 08:00 PM	52.4	73.6	47.3
08:00 PM - 09:00 PM	54.0	65.1	46.2
09:00 PM - 10:00 PM	48.9	68.6	45.1
10:00 PM - 11:00 PM	50.7	75.9	45.1
11:00 PM - 12:00 AM	46.8	65.0	43.7
12:00 AM - 01:00 AM	44.4	62.8	41.2
01:00 AM - 02:00 AM	43.9	63.6	41.1
02:00 AM - 03:00 AM	44.1	63.0	40.9
03:00 AM - 04:00 AM	45.6	58.1	43.0
04:00 AM - 05:00 AM	50.4	76.2	43.7
05:00 AM - 06:00 AM	53.5	77.9	41.1
06:00 AM - 07:00 AM	49.9	72.6	39.2
07:00 AM - 08:00 AM	54.4	92.6	39.7
08:00 AM - 09:00 AM	52.1	75.5	41.4

Leq Average 24 hrs. (dB(A)) : 53.0
Lmax (dB(A)) : 100.2
L90 (dB(A)) : 42.5
Ldn (dB(A)) : 56.7
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Suppt Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1.37P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611811-1

Page 1 of 1

Sample Number	2329222-2
Parameter	Noise (Leq 24 hrs.)
Location	โรงงาน
Measurement Date	Mar 22 - Mar 23, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.8	70.2	37.8
10:00 AM - 11:00 AM	53.8	82.7	38.2
11:00 AM - 12:00 PM	51.0	71.7	39.5
12:00 PM - 01:00 PM	50.2	74.6	39.8
01:00 PM - 02:00 PM	49.8	69.2	40.2
02:00 PM - 03:00 PM	52.5	74.6	40.9
03:00 PM - 04:00 PM	54.8	80.1	42.0
04:00 PM - 05:00 PM	55.4	83.1	43.9
05:00 PM - 06:00 PM	56.9	87.0	43.6
06:00 PM - 07:00 PM	54.6	81.7	42.9
07:00 PM - 08:00 PM	51.7	70.5	42.7
08:00 PM - 09:00 PM	49.4	72.5	45.7
09:00 PM - 10:00 PM	63.3	79.0	46.0
10:00 PM - 11:00 PM	48.6	64.4	41.4
11:00 PM - 12:00 AM	46.5	66.2	41.0
12:00 AM - 01:00 AM	44.8	63.1	41.2
01:00 AM - 02:00 AM	44.4	67.6	41.9
02:00 AM - 03:00 AM	45.7	61.0	42.7
03:00 AM - 04:00 AM	46.9	66.3	42.5
04:00 AM - 05:00 AM	51.8	75.8	44.7
05:00 AM - 06:00 AM	50.4	80.8	40.8
06:00 AM - 07:00 AM	52.6	74.1	41.0
07:00 AM - 08:00 AM	51.2	76.5	38.2
08:00 AM - 09:00 AM	49.1	69.9	36.4

Leq Average 24 hrs. (dB(A))	53.6		
Lmax (dB(A))		87.0	
L90 (dB(A))			41.2
Ldn (dB(A))	57.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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Life Sciences

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10717-21

S\Report_Air Noise rpt (1.38P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611812-1

Page 1 of 1

Sample Number	2329222-3
Parameter	Noise (Leq 24 hrs.)
Location	โรงงาน
Measurement Date	Mar 23 - Mar 24, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.0	84.8	43.6
10:00 AM - 11:00 AM	54.6	79.2	43.0
11:00 AM - 12:00 PM	56.2	87.7	41.7
12:00 PM - 01:00 PM	52.0	71.9	46.2
01:00 PM - 02:00 PM	50.6	75.5	44.5
02:00 PM - 03:00 PM	61.3	74.9	53.0
03:00 PM - 04:00 PM	64.0	81.8	51.4
04:00 PM - 05:00 PM	71.0	94.2	58.4
05:00 PM - 06:00 PM	50.5	74.2	37.0
06:00 PM - 07:00 PM	53.2	77.1	37.6
07:00 PM - 08:00 PM	52.9	77.2	39.6
08:00 PM - 09:00 PM	52.3	75.8	39.2
09:00 PM - 10:00 PM	53.6	76.3	40.8
10:00 PM - 11:00 PM	55.3	80.6	40.8
11:00 PM - 12:00 AM	54.0	76.9	41.0
12:00 AM - 01:00 AM	53.2	74.4	43.3
01:00 AM - 02:00 AM	56.9	87.7	44.0
02:00 AM - 03:00 AM	56.4	84.5	42.8
03:00 AM - 04:00 AM	55.7	88.4	44.2
04:00 AM - 05:00 AM	50.9	75.5	45.9
05:00 AM - 06:00 AM	51.5	79.1	43.5
06:00 AM - 07:00 AM	52.6	74.1	41.0
07:00 AM - 08:00 AM	51.2	76.5	38.2
08:00 AM - 09:00 AM	49.1	69.9	36.4

Leq Average 24 hrs. (dB(A))	59.6		
Lmax (dB(A))		94.2	
L90 (dB(A))			42.8
Ldn (dB(A))	62.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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10717-21

S\Report_Air Noise rpt (1.38P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611813-1

Page 1 of 1

Sample Number	2329222-4
Parameter	Noise (Leq 24 hrs.)
Location	โรงงาน
Measurement Date	Mar 24 - Mar 25, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.3	75.4	37.3
10:00 AM - 11:00 AM	51.3	74.5	37.2
11:00 AM - 12:00 PM	54.6	80.4	37.4
12:00 PM - 01:00 PM	49.8	72.3	36.5
01:00 PM - 02:00 PM	51.3	77.3	39.9
02:00 PM - 03:00 PM	49.2	70.4	39.5
03:00 PM - 04:00 PM	52.7	79.2	41.7
04:00 PM - 05:00 PM	58.6	83.3	43.3
05:00 PM - 06:00 PM	54.2	79.3	42.6
06:00 PM - 07:00 PM	52.8	71.7	46.1
07:00 PM - 08:00 PM	52.9	79.9	45.7
08:00 PM - 09:00 PM	50.6	69.9	46.7
09:00 PM - 10:00 PM	49.2	68.2	42.7
10:00 PM - 11:00 PM	47.5	63.9	42.9
11:00 PM - 12:00 AM	49.4	63.4	48.2
12:00 AM - 01:00 AM	48.4	62.3	45.9
01:00 AM - 02:00 AM	45.9	61.3	41.7
02:00 AM - 03:00 AM	42.9	63.8	39.1
03:00 AM - 04:00 AM	42.5	56.4	40.7
04:00 AM - 05:00 AM	50.7	67.7	42.0
05:00 AM - 06:00 AM	50.4	72.0	43.8
06:00 AM - 07:00 AM	50.6	70.8	39.5
07:00 AM - 08:00 AM	52.5	79.6	38.2
08:00 AM - 09:00 AM	51.4	79.1	38.0

Leq Average 24 hrs. (dB(A))	51.7		
Lmax (dB(A))		83.5	
L90 (dB(A))			41.7
Ldn (dB(A))	55.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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S\Report_Air Noise rpt (1.38P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611814-1

Page 1 of 1

Sample Number	2329222-5
Parameter	Noise (Leq 24 hrs.)
Location	โรงงาน
Measurement Date	Mar 25 - Mar 26, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	52.0	76.8	41.7
10:00 AM - 11:00 AM	49.5	70.4	40.8
11:00 AM - 12:00 PM	49.8	67.0	42.4
12:00 PM - 01:00 PM	47.8	65.3	42.8
01:00 PM - 02:00 PM	47.3	65.0	40.4
02:00 PM - 03:00 PM	49.6	65.2	43.5
03:00 PM - 04:00 PM	52.5	71.1	44.0
04:00 PM - 05:00 PM	54.0	74.7	44.1
05:00 PM - 06:00 PM	54.4	81.3	42.5
06:00 PM - 07:00 PM	51.6	69.4	41.7
07:00 PM - 08:00 PM	46.5	65.5	43.2
08:00 PM - 09:00 PM	49.1	69.1	49.1
09:00 PM - 10:00 PM	50.3	58.1	49.2
10:00 PM - 11:00 PM	46.9	56.3	42.2
11:00 PM - 12:00 AM	43.3	66.9	40.9
12:00 AM - 01:00 AM	44.0	67.3	40.6
01:00 AM - 02:00 AM	44.8	69.1	39.6
02:00 AM - 03:00 AM	40.7	61.5	38.8
03:00 AM - 04:00 AM	42.9	63.7	37.9
04:00 AM - 05:00 AM	40.8	64.3	37.6
05:00 AM - 06:00 AM	52.6	73.4	38.4
06:00 AM - 07:00 AM	53.0	82.1	41.8
07:00 AM - 08:00 AM	52.6	72.7	43.7
08:00 AM - 09:00 AM	51.9	75.0	43.6

Leq Average 24 hrs. (dB(A))	50.2		
Lmax (dB(A))		82.1	
L90 (dB(A))			41.8
Ldn (dB(A))	54.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมภายใน 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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S\Report_Air Noise rpt (1.38P)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611815-1

Page 1 of 1

Sample Number : 2329222-6
Parameter : Noise (Leq 24 hrs.)
Location : โรงพ่นสี
Measurement Date : Mar 26 - Mar 27, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	48.9	70.6	40.8
10:00 AM - 11:00 AM	46.0	67.8	38.8
11:00 AM - 12:00 PM	47.1	73.0	38.8
12:00 PM - 01:00 PM	48.6	67.6	39.7
01:00 PM - 02:00 PM	48.0	70.9	40.9
02:00 PM - 03:00 PM	48.5	68.6	40.9
03:00 PM - 04:00 PM	49.7	77.4	41.3
04:00 PM - 05:00 PM	51.6	71.7	42.2
05:00 PM - 06:00 PM	51.9	79.7	41.7
06:00 PM - 07:00 PM	52.0	80.5	39.9
07:00 PM - 08:00 PM	45.7	57.8	41.9
08:00 PM - 09:00 PM	44.2	55.9	41.6
09:00 PM - 10:00 PM	43.2	61.5	41.4
10:00 PM - 11:00 PM	45.3	67.7	41.8
11:00 PM - 12:00 AM	48.2	71.3	41.6
12:00 AM - 01:00 AM	43.8	64.4	41.7
01:00 AM - 02:00 AM	42.6	64.3	39.4
02:00 AM - 03:00 AM	41.7	56.2	39.6
03:00 AM - 04:00 AM	41.8	61.5	39.6
04:00 AM - 05:00 AM	42.2	68.3	37.1
05:00 AM - 06:00 AM	54.4	72.6	38.3
06:00 AM - 07:00 AM	53.3	77.8	45.9
07:00 AM - 08:00 AM	51.6	74.1	44.2
08:00 AM - 09:00 AM	51.3	69.6	43.2

Leq Average 24 hrs. (dB(A)) : 49.1
Lmax (dB(A)) : 80.5
L90 (dB(A)) : 40.9
Ldn (dB(A)) : 55.3
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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S:\Report\Air Noise rpt (1.39M)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329222
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611816-1

Page 1 of 1

Sample Number : 2329222-7
Parameter : Noise (Leq 24 hrs.)
Location : โรงพ่นสี
Measurement Date : Mar 27 - Mar 28, 2023
Measurement by : Nontachai Uppathamp
Sound Level meter : Serial No. 1222724

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.3	71.9	41.5
10:00 AM - 11:00 AM	47.9	67.3	40.6
11:00 AM - 12:00 PM	46.4	76.2	40.2
12:00 PM - 01:00 PM	49.7	87.6	43.1
01:00 PM - 02:00 PM	46.5	67.1	41.4
02:00 PM - 03:00 PM	48.1	67.0	41.0
03:00 PM - 04:00 PM	49.8	66.4	43.0
04:00 PM - 05:00 PM	51.6	71.9	42.9
05:00 PM - 06:00 PM	53.3	72.0	44.0
06:00 PM - 07:00 PM	53.4	76.6	43.1
07:00 PM - 08:00 PM	47.8	66.9	44.3
08:00 PM - 09:00 PM	47.3	68.2	43.7
09:00 PM - 10:00 PM	46.1	71.7	41.8
10:00 PM - 11:00 PM	44.4	64.3	41.4
11:00 PM - 12:00 AM	43.6	55.6	42.2
12:00 AM - 01:00 AM	43.5	65.1	41.0
01:00 AM - 02:00 AM	42.2	57.9	41.1
02:00 AM - 03:00 AM	43.6	66.6	41.2
03:00 AM - 04:00 AM	47.2	71.8	38.6
04:00 AM - 05:00 AM	42.6	69.4	36.2
05:00 AM - 06:00 AM	51.9	77.0	37.5
06:00 AM - 07:00 AM	53.6	70.8	45.5
07:00 AM - 08:00 AM	55.1	73.5	44.7
08:00 AM - 09:00 AM	51.0	72.6	43.6

Leq Average 24 hrs. (dB(A)) : 49.7
Lmax (dB(A)) : 87.6
L90 (dB(A)) : 41.5
Ldn (dB(A)) : 54.9
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
2. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
3. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้
4. ปรึกษาและตรวจการสิ่งแวดล้อมของพื้นที่ 15 (พ.ศ. 2540) ซึ่งกำหนดค่ามาตรฐานสิ่งแวดล้อมไว้

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Approved by

Suppt S

Supot Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1.39M)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329224
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611805-1

Page 1 of 1

Sample Number : 2329224-3
Parameter : Noise (Leq 24 hrs.)
Location : บ้านวังสามมิตร, ABPR3
Measurement Date : Mar 23 - Mar 24, 2023
Measurement by : Siriwit Ruangsom
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	67.8	70.8	67.5
10:00 AM - 11:00 AM	67.8	81.8	67.4
11:00 AM - 12:00 PM	67.6	75.7	67.2
12:00 PM - 01:00 PM	67.5	74.8	67.1
01:00 PM - 02:00 PM	67.5	76.6	67.1
02:00 PM - 03:00 PM	67.6	72.2	67.2
03:00 PM - 04:00 PM	68.2	78.8	67.8
04:00 PM - 05:00 PM	67.7	78.9	67.3
05:00 PM - 06:00 PM	67.8	73.6	67.5
06:00 PM - 07:00 PM	68.4	71.9	67.8
07:00 PM - 08:00 PM	68.5	71.9	68.0
08:00 PM - 09:00 PM	68.4	71.0	68.1
09:00 PM - 10:00 PM	68.5	71.1	68.1
10:00 PM - 11:00 PM	68.6	71.6	68.3
11:00 PM - 12:00 AM	68.7	70.9	68.4
12:00 AM - 01:00 AM	68.7	71.0	68.3
01:00 AM - 02:00 AM	68.6	71.6	68.3
02:00 AM - 03:00 AM	68.6	71.1	68.3
03:00 AM - 04:00 AM	68.7	70.7	68.3
04:00 AM - 05:00 AM	68.6	70.8	68.2
05:00 AM - 06:00 AM	68.7	71.2	68.4
06:00 AM - 07:00 AM	68.7	80.2	68.4
07:00 AM - 08:00 AM	68.3	73.7	67.9
08:00 AM - 09:00 AM	68.0	75.7	67.7

Leq Average 24 hrs. (dB(A))

68.3

Lmax (dB(A))

81.8

L90 (dB(A))

67.9

Ldn (dB(A))

75.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานเสียงในชุมชน และวิธีปฏิบัติในการตรวจวัดเสียงในชุมชน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Approved by

Suppt S

Thanita Kulsuriwong
Scientist (4)

Suppt Salameth
Section Head

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10717-21

S:\Report\Air Noise rpt (1429M)



Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329224
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611806-1

Page 1 of 1

Sample Number : 2329224-4
Parameter : Noise (Leq 24 hrs.)
Location : บ้านวังสามมิตร, ABPR3
Measurement Date : Mar 24 - Mar 25, 2023
Measurement by : Siriwit Ruangsom
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	67.8	71.7	67.5
10:00 AM - 11:00 AM	67.7	78.1	67.3
11:00 AM - 12:00 PM	67.7	71.2	67.3
12:00 PM - 01:00 PM	67.8	71.2	67.4
01:00 PM - 02:00 PM	67.7	71.0	67.4
02:00 PM - 03:00 PM	67.7	70.7	67.3
03:00 PM - 04:00 PM	67.8	79.9	67.4
04:00 PM - 05:00 PM	67.9	84.2	67.5
05:00 PM - 06:00 PM	68.1	79.4	67.7
06:00 PM - 07:00 PM	68.6	79.4	68.0
07:00 PM - 08:00 PM	68.4	79.7	68.2
08:00 PM - 09:00 PM	68.6	79.4	68.2
09:00 PM - 10:00 PM	68.7	79.6	68.3
10:00 PM - 11:00 PM	68.7	79.2	68.3
11:00 PM - 12:00 AM	68.8	78.3	68.4
12:00 AM - 01:00 AM	68.8	78.6	68.4
01:00 AM - 02:00 AM	68.7	77.9	68.4
02:00 AM - 03:00 AM	68.6	78.1	68.3
03:00 AM - 04:00 AM	68.6	79.1	68.2
04:00 AM - 05:00 AM	68.6	78.2	68.2
05:00 AM - 06:00 AM	68.7	78.1	68.4
06:00 AM - 07:00 AM	67.7	77.5	65.7
07:00 AM - 08:00 AM	68.2	79.2	67.8
08:00 AM - 09:00 AM	68.0	79.3	67.6

Leq Average 24 hrs. (dB(A))

68.3

Lmax (dB(A))

84.2

L90 (dB(A))

67.8

Ldn (dB(A))

74.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานเสียงในชุมชน พ.ศ. 2540
2. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานเสียงในชุมชน และวิธีปฏิบัติในการตรวจวัดเสียงในชุมชน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Approved by

Suppt S

Thanita Kulsuriwong
Scientist (4)

Suppt Salameth
Section Head

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S:\Report\Air Noise rpt (1429M)



Analysis / Test Report



TESTING
No.0042

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329224
Date Received : Mar 29, 2023
Date Reported : Apr 04, 2023
Report Number: 2611809-1

Page 1 of 1

Sample Number : 2329224-7
Parameter : Noise (Leq 24 hrs.)
Location : บ้านวังโสม ABPR3
Measurement Date : Mar 27 - Mar 28, 2023
Measurement by : Siriwit Ruangsom
Sound Level meter : Serial No. 233183

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	67.9	83.3	67.5
10:00 AM - 11:00 AM	67.7	80.0	67.3
11:00 AM - 12:00 PM	67.6	79.6	67.2
12:00 PM - 01:00 PM	67.6	82.3	67.2
01:00 PM - 02:00 PM	67.6	81.9	67.1
02:00 PM - 03:00 PM	67.6	78.5	67.2
03:00 PM - 04:00 PM	67.6	78.5	67.2
04:00 PM - 05:00 PM	67.6	77.8	67.2
05:00 PM - 06:00 PM	67.8	79.2	67.5
06:00 PM - 07:00 PM	68.5	79.5	67.9
07:00 PM - 08:00 PM	68.6	78.9	68.2
08:00 PM - 09:00 PM	68.5	78.4	68.1
09:00 PM - 10:00 PM	68.5	78.3	68.1
10:00 PM - 11:00 PM	68.4	78.7	68.1
11:00 PM - 12:00 AM	68.7	78.6	68.2
12:00 AM - 01:00 AM	68.5	78.6	68.2
01:00 AM - 02:00 AM	68.5	78.1	68.1
02:00 AM - 03:00 AM	68.4	78.9	68.1
03:00 AM - 04:00 AM	68.4	79.0	68.0
04:00 AM - 05:00 AM	68.5	78.9	68.1
05:00 AM - 06:00 AM	68.6	78.4	68.3
06:00 AM - 07:00 AM	68.5	79.0	68.1
07:00 AM - 08:00 AM	68.1	78.4	67.7
08:00 AM - 09:00 AM	68.0	79.8	67.6

Leq Average 24 hrs. (dB(A)) : 68.2
Lmax (dB(A)) : 83.3
L90 (dB(A)) : 67.9
Ldn (dB(A)) : 74.8
Standard (dB(A)) : 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่องเสียงดัง พ.ศ. 2540 ซึ่งกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ปลอดภัยจากโรคหูตึง พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salameh
Section Head

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ภาคผนวก ค-5

ระดับเสียงในบริเวณการทำงาน



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329235
Date Received : Mar 22, 2023
Date Reported : Mar 24, 2023
Report Number: 2603191-1

Page 1 of 1

Sample Number : 2329235-1
Parameter : Noise (Leq 8 hrs.)
Location : เครื่องผลิตไฟฟ้าที่ถนนบ้าน
Measurement Date : Mar 21, 2023
Measurement by : Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:08 AM - 10:08 AM	75.2	88.2	74.3
10:08 AM - 11:08 AM	75.7	78.8	74.6
11:08 AM - 12:08 PM	75.9	78.8	75.0
12:08 PM - 01:08 PM	75.5	77.9	74.6
01:08 PM - 02:08 PM	75.4	80.4	74.5
02:08 PM - 03:08 PM	75.2	77.7	74.4
03:08 PM - 04:08 PM	75.4	78.8	74.7
04:08 PM - 05:08 PM	76.0	78.9	75.1
Leq Average 8 hrs. (dB(A))	75.5		
Lmax (dB(A))		88.2	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประเทศไทยตรวจสอบและควบคุมเสียงจากแหล่งเสียงสาธารณะ ในการประเมินผลการดำเนินงานเกี่ยวกับสิ่งแวดล้อมในการพิจารณา พ.ร.บ. ๒๕๖๑			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salameth
Section Head

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329235
Date Received : Mar 22, 2023
Date Reported : Mar 24, 2023
Report Number: 2603192-1

Page 1 of 1

Sample Number : 2329235-2
Parameter : Noise (Leq 8 hrs.)
Location : เครื่องผลิตไฟฟ้าที่ถนนบ้าน
Measurement Date : Mar 21, 2023
Measurement by : Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:06 AM - 10:06 AM	68.9	77.7	68.1
10:06 AM - 11:06 AM	68.4	75.1	68.0
11:06 AM - 12:06 PM	68.2	75.2	67.9
12:06 PM - 01:06 PM	68.3	75.5	67.9
01:06 PM - 02:06 PM	68.4	75.2	68.0
02:06 PM - 03:06 PM	68.4	75.2	68.0
03:06 PM - 04:06 PM	68.2	75.5	67.9
04:06 PM - 05:06 PM	68.7	77.5	67.9
Leq Average 8 hrs. (dB(A))	68.4		
Lmax (dB(A))		77.7	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประเทศไทยตรวจสอบและควบคุมเสียงจากแหล่งเสียงสาธารณะ ในการประเมินผลการดำเนินงานเกี่ยวกับสิ่งแวดล้อมในการพิจารณา พ.ร.บ. ๒๕๖๑			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salameth
Section Head

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2329235
Date Received : Mar 22, 2023
Date Reported : Mar 24, 2023
Report Number: 2603193-1

Page 1 of 1

Sample Number : 2329235-3
Parameter : Noise (Leq 8 hrs.)
Location : เครื่องผลิตไฟฟ้า
Measurement Date : Mar 21, 2023
Measurement by : Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:01 AM - 10:01 AM	76.8	84.1	74.4
10:01 AM - 11:01 AM	76.3	84.1	75.4
11:01 AM - 12:01 PM	76.3	84.2	75.4
12:01 PM - 01:01 PM	76.4	84.2	75.5
01:01 PM - 02:01 PM	76.4	84.2	75.4
02:01 PM - 03:01 PM	76.5	84.0	75.5
03:01 PM - 04:01 PM	76.6	84.3	75.6
04:01 PM - 05:01 PM	76.4	83.7	74.0
Leq Average 8 hrs. (dB(A))	76.5		
Lmax (dB(A))		84.3	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประเทศไทยตรวจสอบและควบคุมเสียงจากแหล่งเสียงสาธารณะ ในการประเมินผลการดำเนินงานเกี่ยวกับสิ่งแวดล้อมในการพิจารณา พ.ร.บ. ๒๕๖๑			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salameth
Section Head

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ภาคผนวก ค-6

คุณภาพน้ำทิ้ง



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location :



TESTING
No.0042

Lot ID: 231760
Date Received : Jan 09, 2023
Date Reported : Jan 16, 2023
Report Number : 2537118-1

Sample Number : 231760-1
Sampled Date : Jan 09, 2023 10:25 AM
Sample Description : Wastewater
Location : โรงงานผลิตและขนถ่ายน้ำมันปิโตรเลียม
Date Analysis Commenced : Jan 09, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	26	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	26.9	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2720	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun รับผิดชอบ 3-323-9476

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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5/16pachai_AL_01.rpt (5/509K)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location :



TESTING
No.0042

Lot ID: 231760
Date Received : Jan 09, 2023
Date Reported : Jan 16, 2023
Report Number : 2537118-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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5/16pachai_AL_01.rpt (5/509K)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location :

Lot ID: 231760
Date Received : Jan 09, 2023
Date Reported : Jan 16, 2023
Report Number : 2537118-2

Sample Number : 231760-1
Sampled Date : Jan 09, 2023 10:25 AM
Sample Description : Wastewater
Location : โรงงานผลิตและขนถ่ายน้ำมันปิโตรเลียม
Date Analysis Commenced : Jan 09, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter, Analyzed by Client	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun รับผิดชอบ 3-323-9476

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Bangmit

Narumon Banchongkit
Supervisor

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5/16pachai_AL_01.rpt (5/509K)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location :



TESTING
No.0042

Lot ID: 232793
Date Received : Feb 13, 2023
Date Reported : Feb 20, 2023
Report Number : 2538391-1

Sample Number : 232793-1
Sampled Date : Feb 13, 2023 10:40 AM
Sample Description : Wastewater
Location : โรงงานผลิตและขนถ่ายน้ำมันปิโตรเลียม
Date Analysis Commenced : Feb 13, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	37	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	29.1	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2360	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun รับผิดชอบ 3-323-9476

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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5/16pachai_AL_01.rpt (11/2149K)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location:



TESTING
No.0042
Lot ID: 232793
Date Received : Feb 13, 2023
Date Reported : Feb 20, 2023
Report Number : 2538391-1

Page 2 of 2

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangpit

Narumon Banchongkit
Supervisor
โทรศัพท์ 3-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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5:\reports\AL_01-upt (11-23-249)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O :
Project Name : ABPR 3
Project Location:

Lot ID: 232793
Date Received : Feb 13, 2023
Date Reported : Feb 20, 2023
Report Number : 2538391-2

Page 1 of 1

Sample Number : 232793-1
Sampled Date : Feb 13, 2023 10:40 AM
Sample Description : Wastewater
Location : บ่อระดมของเสียจากพื้นที่ของโรงงาน
Date Analysis Commenced : Feb 13, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun

- Remark :
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location:

TESTING
No.0042
Lot ID: 2323601
Date Received : Mar 13, 2023
Date Reported : Mar 23, 2023
Report Number : 2581659-1

Page 1 of 2

Sample Number : 2323601-1
Sampled Date : Mar 13, 2023 10:30 AM
Sample Description : Wastewater
Location : บ่อระดมของเสียจากพื้นที่ของโรงงาน
Date Analysis Commenced : Mar 13, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COO	mg/L	1.5	25	35	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	29.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2480	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	<200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun โทรศัพท์ 3-323-9-9476

- Remark :
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Bangpit

Narumon Banchongkit
Supervisor
โทรศัพท์ 3-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location:

TESTING
No.0042
Lot ID: 2323601
Date Received : Mar 13, 2023
Date Reported : Mar 23, 2023
Report Number : 2581659-1

Page 2 of 2

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangpit

Narumon Banchongkit
Supervisor
โทรศัพท์ 3-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2323601
Date Received : Mar 13, 2023
Date Reported : Mar 23, 2023
Report Number : Z581659-2

Page 1 of 1

Sample Number	2323601-1					
Sampled Date	Mar 13, 2023 10:30 AM					
Sample Description	Wastewater					
Location	บ่อรวบรวมของเสียจากพื้นที่ของโครงการ					
Date Analysis Commenced	Mar 13, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter, Analyzed by Client Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Bangmit

Narumon Banchongkit
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :



TESTING
No.0042

Lot ID: 2338140
Date Received : Apr 10, 2023
Date Reported : Apr 19, 2023
Report Number : 2613517-1

Page 1 of 2

Sample Number	2338140-1					
Sampled Date	Apr 10, 2023 11:05 AM					
Sample Description	Wastewater					
Location	บ่อรวบรวมของเสียจากพื้นที่ของโครงการ					
Date Analysis Commenced	Apr 10, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B Rayong
COD	mg/L	1.5	25	29	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B Rayong
pH at 25 degree C *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F) Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	3000	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
โทรศัพท์มือถือ 3-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์มือถือ 3-323-9-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2338140
Date Received : Apr 10, 2023
Date Reported : Apr 19, 2023
Report Number : 2613517-1

Page 2 of 2

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์มือถือ 3-323-9-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2338140
Date Received : Apr 10, 2023
Date Reported : Apr 19, 2023
Report Number : 2613517-2

Page 1 of 1

Sample Number	2338140-1					
Sampled Date	Apr 10, 2023 11:05 AM					
Sample Description	Wastewater					
Location	บ่อรวบรวมของเสียจากพื้นที่ของโครงการ					
Date Analysis Commenced	Apr 10, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter, Analyzed by Client Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Bangmit

Narumon Banchongkit
Supervisor

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2350764
Date Received : May 08, 2023
Date Reported : May 15, 2023
Report Number : 2641990-1

Page 1 of 2

Sample Number	2350764-1						
Sampled Date	May 08, 2023	9:47 AM					
Sample Description	Wastewater						
Location	บ่อรวบรวมของน้ำทิ้งของโรงงาน						
Date Analysis Commenced	May 08, 2023						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	33.6	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2860	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Paramet Sattayakun รับผิดชอบ 3-323-9476
Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2350764
Date Received : May 08, 2023
Date Reported : May 15, 2023
Report Number : 2641990-1

Page 2 of 2

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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Analysis / Test Report

Lot ID: 2350764

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Date Received : May 08, 2023
Date Reported : May 15, 2023
Report Number : 2641990-2

Page 1 of 1

Sample Number	2350764-1						
Sampled Date	May 08, 2023	9:47 AM					
Sample Description	Wastewater						
Location	บ่อรวบรวมของน้ำทิ้งของโรงงาน						
Date Analysis Commenced	May 08, 2023						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Paramet Sattayakun

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Bangmit

Narumon Banchongkit
Supervisor

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Analysis / Test Report



TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 230130009
Project Name : ABPR 3
Project Location :

Lot ID: 2366382
Date Received : Jun 12, 2023
Date Reported : Jun 20, 2023
Report Number : 2676753-1

Page 1 of 2

Sample Number	2366382-1						
Sampled Date	Jun 12, 2023	11:15 AM					
Sample Description	Wastewater						
Location	บ่อรวบรวมของน้ำทิ้งของโรงงาน						
Date Analysis Commenced	Jun 12, 2023						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O ₆	Rayong
COD	mg/L	1.5	25	28	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 B	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)	Rayong
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2920	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Paramet Sattayakun รับผิดชอบ 3-323-9476

Remark :
- LOD : Limit of Detection

Technical Management

N. Bangmit

Narumon Banchongkit
Supervisor
รับผิดชอบ 3-323-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
รับผิดชอบ 3-323-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :



TESTING
No.0042
Lot ID: **2366382**
Date Received : Jun 12, 2023
Date Reported : Jun 20, 2023
Report Number : 2676753-1

Page 2 of 2

- "^{*}" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked "^{*}" is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banphongkit
Supervisor
โทรศัพท์มือถือ ๐-323-๙-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทรศัพท์มือถือ ๐-323-๙-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: **2366382**
Date Received : Jun 12, 2023
Date Reported : Jun 20, 2023
Report Number : 2676753-2

Page 1 of 1

Sample Number : 2366382-1
Sample Date : Jun 12, 2023 11:15 AM
Sample Description : Wastewater
Location : บึงระยองอุตสาหกรรมน้ำทิ้งของโรงงาน
Date Analysis Commenced : Jun 12, 2023
Condition of Sample : Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m ³ /s	-	-	0.022	No Standard	Flow meter, Analyzed by Client	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun

- Remark :
- LOD : Limit of Detection
 - "^{*}" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

N. Banphit

Narumon Banphongkit
Supervisor

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ภาคผนวก ค-7

ระดับความร้อนในบริเวณการทำงาน



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporn, Pluakdaeng, Rayong 21140
P/O : 2301130009
Project Name : ABPR 3
Project Location :

Lot ID: 2337958

Date Received : Apr 11, 2023
Date Reported : Apr 21, 2023
Report Number: 2628489-1

Page 1 of 1

Sample Number 2337958-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Apr 11, 2023
Measurement by Norranon Tathongkham
Location ปฏิบัติงาน 15 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : ████████ แผนก : Operation)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Low Vol	5	31.5	28.5	43.8	27.9
High Vol	5	30.4	27.4	38.4	35.8
GT 31	5	29.4	26.9	35.6	34.2
GT 32	5	29.8	27.8	34.9	33.6
Gas Heater	5	31.8	27.7	43.0	37.8
Sampling Lab HRSG	5	29.6	27.5	34.6	34.3
Feed Motor HPLP 31,32	5	30.1	27.4	36.8	36.0
Super Heat Steam 31,32	5	30.1	27.2	37.6	35.5
HP Drum	5	30.8	27.6	39.3	36.2
Chemical Dosing HRSG	5	30.6	27.8	37.8	35.9
LP Drum	5	30.7	27.4	39.3	36.1
Deaerator	5	29.6	27.3	35.4	33.9
STG 30	5	30.6	28.1	36.4	36.3
Cooling Tower	5	32.9	29.5	42.5	37.1
WTP Control Room	50	19.8	18.6	22.7	22.4
Average (WBGT)		26.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Note:

This Analysis test report is reissued to supersede report No. 2613145-1 Date Reported : Apr 17, 2023 due to revise sample information.

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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ภาคผนวก ค-8

ระดับเสียงเฉลี่ยตลอดเวลาการทำงาน



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpomi, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABRK 3
Project Location :

Lot ID: 2371620
Date Received : Jun 23, 2023
Date Reported : Jun 27, 2023
Report Number : 2691596-1

Page 1 of 3

Sample Number : 2371620-1
Sampled Date : Jun 22, 2023
Sample Description : Noise Dose
Location : ABRK3_PO (ABPR3)
Personal Sampling :
Date Analysis Commenced : Jun 27, 2023

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavq)	06:30 AM - 06:30 PM	%	-	-	95.5	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	06:30 AM - 06:30 PM	%	-	1	93.3	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavq)	06:30 AM - 06:30 PM	dB(A)	-	-	82.8	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	06:30 AM - 06:30 PM	dB(A)	-	-	84.7	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Supot Salanteh

Remark :

- LOD : Limit of Detection
- *C* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by 
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpomi, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABRK 3
Project Location :

Lot ID: 2371620
Date Received : Jun 23, 2023
Date Reported : Jun 27, 2023
Report Number : 2691596-1

Page 2 of 3

Sample Number : 2371620-2
Sampled Date : Jun 22, 2023
Sample Description : Noise Dose
Location : ABRK3_PO (WTP)
Personal Sampling :
Date Analysis Commenced : Jun 27, 2023

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (12 hrs.) (Calculated from Lavq)	06:30 AM - 06:30 PM	%	-	-	46.8	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
Noise Dose (8 hrs.)	06:30 AM - 06:30 PM	%	-	1	43.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (12 hrs.) (Calculated from Lavq)	06:30 AM - 06:30 PM	dB(A)	-	-	79.7	83*	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	06:30 AM - 06:30 PM	dB(A)	-	-	81.4	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
* MOL: Recommended guideline limit for 12 working hours should not be over 83 dB(A)

Sampled By : Supot Salanteh

Remark :

- LOD : Limit of Detection
- *C* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpomi, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABRK 3
Project Location :

Lot ID: 2371620
Date Received : Jun 23, 2023
Date Reported : Jun 27, 2023
Report Number : 2691596-1

Page 3 of 3

Sample Number : 2371620-3
Sampled Date : Jun 23, 2023
Sample Description : Noise Dose
Location : ABRK3_Maintenance Staff
Personal Sampling :
Date Analysis Commenced : Jun 27, 2023

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Noise Dose (8 hrs.)	08:30 AM - 04:30 PM	%	-	1	7.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok
TWA (8 hrs.)	08:30 AM - 04:30 PM	dB(A)	-	-	73.8	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok

Guideline :

MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)

Sampled By : Supot Salanteh

Remark :

- LOD : Limit of Detection
- *C* : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by 
Wichan Choonharat
Assistant Manager

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ภาคผนวก ค-9

คุณภาพอากาศในบริเวณการทำงาน



Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 1 of 12

Sample Number : 2366162-1
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_WTP
Date Analysis Commenced : Jun 26, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorine as NaOCl *	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Phosphoric acid *	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok
Sodium hydroxide as NaOH *	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Rayong
Sulfuric acid *	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Mongkon Phalathip

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by

Savitree N.
Savitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 2 of 12

Sample Number : 2366162-2
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Laboratory
Date Analysis Commenced : Jun 26, 2023
Condition of Sample : Drawn into three filter papers placed in plastic cassette and two sorbent tubes, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethanol *	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1000	NIOSH (1994), 1400	MOL	Bangkok
Hydrochloric acid *	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok
Isopropyl alcohol *	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	400	NIOSH (1994), 1400	MOL	Bangkok
Oxalic acid *	10:00 AM - 12:00 PM	mg/m3	-	0.01	<0.01	1	OSHA, OSHA PV2115	MOL	Bangkok
Sodium hydroxide as NaOH *	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Rayong

Metals Testing
Potassium Chromate * : 10:00 AM - 12:00 PM mg/m3 - 0.02 <0.02 No Standard NIOSH (2003), 7301 - Bangkok
Sodium hydrosulfite (Na2S2O4) * : 10:00 AM - 12:00 PM mg/m3 - 0.20 <0.20 No Standard NIOSH (2003), 7301 - Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Mongkon Phalathip

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by

Savitree N.
Savitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 3 of 12

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Flow rate *	09:45 AM - 09:50 AM	m/s	-	-	0.42	No Standard	ASHRAE, 62	-	Bangkok

Guideline :
Sampled By : Mongkon Phalathip

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Savitree N.
Savitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Pluakdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 4 of 12

Sample Number : 2366162-4
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Chemical dosing (HRSG R.3)
Date Analysis Commenced : Jun 27, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Ethanolamine *	10:00 AM - 12:00 PM	ppm	-	0.03	<0.03	3	OSHA, PV2111	MOL	Bangkok
Sodium hydroxide as NaOH *	10:00 AM - 12:00 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Rayong

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Mongkon Phalathip

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by

Savitree N.
Savitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 5 of 12

Sample Number : 2366162-5
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Chemical dosing (Cooling Tower 30)
Date Analysis Commenced : Jun 26, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Chlorine as NaOCl *	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok
Sulfuric acid *	10:00 AM - 12:00 PM	mg/m ³	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok
Metals Testing									
Zinc Chloride (Inhalable dust) *	10:00 AM - 12:00 PM	mg/m ³	-	0.003	<0.003	No Standard	NIOSH (2003)	-	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Mongkon Phalathip

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by

Sawitree N.
Sawitree Naisangiam
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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 6 of 12

Sample Number : 2366162-6
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Gas Turbine 31
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon as Methane *	12:00 PM - 02:00 PM	ppm	-	1.0	3.3	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :
Sampled By : Mongkon Phalathip

Remark :
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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 7 of 12

Sample Number : 2366162-7
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Gas Turbine 32
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Hydrocarbon as Methane *	12:00 PM - 02:00 PM	ppm	-	1.0	3.2	No Standard	Total Hydrocarbon Analyzer	-	Rayong

Guideline :
Sampled By : Mongkon Phalathip

Remark :
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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 8 of 12

Sample Number : 2366162-8
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Battery Room
Date Analysis Commenced : Jun 27, 2023
Condition of Sample : Drawn into one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 26.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Sulfuric acid *	12:00 PM - 02:00 PM	mg/m ³	-	0.05	<0.05	1	Based on OSHA, ID-174-SG	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Mongkon Phalathip

Remark :
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Sawitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 9 of 12

Sample Number : 2366162-9
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_PO (ABPR3)
Personal Sampling : สุ่มพื้นที่ (ตาม)
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust *	08:00 AM - 10:00 AM	mg/m ³	-	0.15	<0.15	5	Based on NIOSH (1998), OSHA 0600	Rayong	

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Mongkon Phalathip

Remark :
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Sawitree Naisangiam
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10712-642 (ENGL)



Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 10 of 12

Sample Number : 2366162-10
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_PO (WTP)
Personal Sampling : สุ่มพื้นที่ (ตาม)
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust *	08:00 AM - 10:00 AM	mg/m ³	-	0.15	<0.15	5	Based on NIOSH (1998), OSHA 0600	Rayong	

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Mongkon Phalathip

Remark :
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Sawitree Naisangiam
Manager

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10712-642 (ENGL)



Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
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P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 11 of 12

Sample Number : 2366162-11
Sampled Date : Jun 23, 2023
Sample Description : Air Quality
Location : ABPR3_Maintenance Staff
Personal Sampling : สุ่มตาม (ตาม)
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust *	09:30 AM - 11:30 AM	mg/m ³	-	0.15	<0.15	5	Based on NIOSH (1998), OSHA 0600	Rayong	

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Mongkon Phalathip

Remark :
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Sawitree N.
Sawitree Naisangiam
Manager

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Analysis / Test Report



TESTING
No.0009

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangporm, Phukdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: 2366162
Date Received : Jun 23, 2023
Date Reported : Jul 11, 2023
Report Number : 26/59/8-1

Page 12 of 12

Sample Number : 2366162-12
Sampled Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Out Door
Date Analysis Commenced : Jun 24, 2023
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total Dust *	12:00 PM - 02:00 PM	mg/m ³	-	0.15	<0.15	15	Based on NIOSH (1994), OSHA 0500	Rayong	

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Mongkon Phalathip

Remark :
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Sawitree N.
Sawitree Naisangiam
Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mabyangpoom, Pluakdaeng, Rayong 21140
P/O : 2301130084
Project Name : ABPR 3
Project Location :

Lot ID: **2366161**
Date Received : Jun 23, 2023
Date Reported : Jun 28, 2023
Report Number : 26/59//1

Page 1 of 1

Sample Number : 2366161-1
Sample Date : Jun 22, 2023
Sample Description : Air Quality
Location : ABPR3_Lab Room
Date Analysis Commenced : Jun 26, 2023

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Air Movement	09:50 AM - 09:55 AM	m/s	-	-	0.21	<0.30	Hot-wire anemometer method	IAQ2016	Bangkok

Guideline :

IAQ2016 : Code of practice for indoor air quality for air-conditioned buildings (SS 554 : 2016)
Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakhyong
Scientist (3)

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ภาคผนวก ค-10

ความเข้มของแสงสว่างในบริเวณการทำงาน



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/991-2 Moo 8, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133230
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498437-1

Page 1 of 1

Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Area - Control Room : 1st Floor : STG Control Room									
1.1	22133230-1	15 Nov 2022	Day time	1	884	885.0	100	200	Pass
1.2	22133230-2	15 Nov 2022	Day time	2	886				
1.1	22133230-3	15 Nov 2022	Night time	1	823	852.5	100	200	Pass
1.2	22133230-4	15 Nov 2022	Night time	2	882				
Area - Control Room : 1st Floor : General Arrangement Of Electrical Control Room									
2.1	22133230-5	15 Nov 2022	Day time	1	323	331.0	100	200	Pass
2.2	22133230-6	15 Nov 2022	Day time	2	366				
2.3	22133230-7	15 Nov 2022	Day time	3	355				
2.4	22133230-8	15 Nov 2022	Day time	4	267				
2.5	22133230-9	15 Nov 2022	Day time	5	334				
2.6	22133230-10	15 Nov 2022	Day time	6	310				
2.7	22133230-11	15 Nov 2022	Day time	7	378				
2.8	22133230-12	15 Nov 2022	Day time	8	338				
2.9	22133230-13	15 Nov 2022	Day time	9	285				
2.10	22133230-14	15 Nov 2022	Day time	10	249				
2.11	22133230-15	15 Nov 2022	Day time	11	351				
2.12	22133230-16	15 Nov 2022	Day time	12	345				
2.13	22133230-17	15 Nov 2022	Day time	13	301				
2.14	22133230-18	15 Nov 2022	Day time	14	475				
2.15	22133230-19	15 Nov 2022	Day time	15	409				
2.16	22133230-20	15 Nov 2022	Day time	16	386				
2.17	22133230-21	15 Nov 2022	Day time	17	237				
2.18	22133230-22	15 Nov 2022	Day time	18	264				
Area - Control Room : 1st Floor : มหานครพลังงานทดแทน									
3.1	22133230-23	15 Nov 2022	Day time	1	228	244.0	50	100	Pass
3.2	22133230-24	15 Nov 2022	Day time	2	260				
Area - Control Room : 1st Floor : มหานคร									
4.1	22133230-25	15 Nov 2022	Day time	1	208	178.0	50	100	Pass
4.2	22133230-26	15 Nov 2022	Day time	2	145				
4.3	22133230-27	15 Nov 2022	Day time	3	151				
4.4	22133230-28	15 Nov 2022	Day time	4	208				

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salameth
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/991-2 Moo 8, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133235
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498439-1

Page 1 of 3

Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Area - Control Room : 2nd Floor : Store Room									
1.1	22133235-1	15 Nov 2022	Day time	1	215	218.0	50	100	Pass
1.2	22133235-2	15 Nov 2022	Day time	2	221				
Area - Control Room : 2nd Floor : Electrical Panel Room 3									
2.1	22133235-3	15 Nov 2022	Day time	1	597	637.5	100	200	Pass
2.2	22133235-4	15 Nov 2022	Day time	2	678				
Area - Control Room : 2nd Floor : Battery Room									
3.1	22133235-5	15 Nov 2022	Day time	1	306	310.7	150	300	Pass
3.2	22133235-6	15 Nov 2022	Day time	2	311				
3.3	22133235-7	15 Nov 2022	Day time	3	323				
3.4	22133235-8	15 Nov 2022	Day time	4	309				
3.5	22133235-9	15 Nov 2022	Day time	5	318				
3.6	22133235-10	15 Nov 2022	Day time	6	299				
3.7	22133235-11	15 Nov 2022	Day time	7	287				
3.8	22133235-12	15 Nov 2022	Day time	8	317				
3.9	22133235-13	15 Nov 2022	Day time	9	303				
3.10	22133235-14	15 Nov 2022	Day time	10	300				
3.11	22133235-15	15 Nov 2022	Day time	11	312				
3.12	22133235-16	15 Nov 2022	Day time	12	304				
3.13	22133235-17	15 Nov 2022	Day time	13	322				
3.14	22133235-18	15 Nov 2022	Day time	14	341				
3.15	22133235-19	15 Nov 2022	Day time	15	309				
Area - Control Room : 2nd Floor : Document Room 2									
4.1	22133235-20	15 Nov 2022	Day time	1	408	443.8	100	200	Pass
4.2	22133235-21	15 Nov 2022	Day time	2	429				
4.3	22133235-22	15 Nov 2022	Day time	3	441				
4.4	22133235-23	15 Nov 2022	Day time	4	478				
4.5	22133235-24	15 Nov 2022	Day time	5	505				
4.6	22133235-25	15 Nov 2022	Day time	6	402				

Technical Management

Supot S
Supot Salameth
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/991-2 Moo 8, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133235
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498439-1

Page 2 of 3

Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Area - Control Room : 2nd Floor : Document Room 1									
5.1	22133235-26	15 Nov 2022	Day time	1	402	430.7	100	200	Pass
5.2	22133235-27	15 Nov 2022	Day time	2	418				
5.3	22133235-28	15 Nov 2022	Day time	3	425				
5.4	22133235-29	15 Nov 2022	Day time	4	489				
5.5	22133235-30	15 Nov 2022	Day time	5	397				
5.6	22133235-31	15 Nov 2022	Day time	6	453				
Area - Control Room : 2nd Floor : Locker Room : Male									
6.1	22133235-32	15 Nov 2022	Day time	1	523	521.5	50	100	Pass
6.2	22133235-33	15 Nov 2022	Day time	2	531				
6.3	22133235-34	15 Nov 2022	Day time	3	555				
6.4	22133235-35	15 Nov 2022	Day time	4	477				
Area - Control Room : 2nd Floor : Locker Room : Female									
7.1	22133235-36	15 Nov 2022	Day time	1	431	401.0	50	100	Pass
7.2	22133235-37	15 Nov 2022	Day time	2	371				
Area - Control Room : 2nd Floor : มหานคร									
8.1	22133235-38	15 Nov 2022	Day time	1	107	132.5	50	100	Pass
8.2	22133235-39	15 Nov 2022	Day time	2	105				
8.3	22133235-40	15 Nov 2022	Day time	3	110				
8.4	22133235-41	15 Nov 2022	Day time	4	103				
8.5	22133235-42	15 Nov 2022	Day time	5	105				
8.6	22133235-43	15 Nov 2022	Day time	6	116				
8.7	22133235-44	15 Nov 2022	Day time	7	107				
8.8	22133235-45	15 Nov 2022	Day time	8	109				
8.9	22133235-46	15 Nov 2022	Day time	9	205				
8.10	22133235-47	15 Nov 2022	Day time	10	145				
8.11	22133235-48	15 Nov 2022	Day time	11	191				
8.12	22133235-49	15 Nov 2022	Day time	12	187				

Technical Management

Supot S
Supot Salameth
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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7/991-2 Moo 8, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133235
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498439-1

Page 3 of 3

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Area - Control Room : 2nd Floor : HVAC Room									
9.1	22133235-50	15 Nov 2022	Day time	1	322	375.7	100	200	Pass
9.2	22133235-51	15 Nov 2022	Day time	2	443				
9.3	22133235-52	15 Nov 2022	Day time	3	391				
9.4	22133235-53	15 Nov 2022	Day time	4	221				
9.5	22133235-54	15 Nov 2022	Day time	5	507				
9.6	22133235-55	15 Nov 2022	Day time	6	486				
9.7	22133235-56	15 Nov 2022	Day time	7	392				
9.8	22133235-57	15 Nov 2022	Day time	8	312				
9.9	22133235-58	15 Nov 2022	Day time	9	313				
9.10	22133235-59	15 Nov 2022	Day time	10	309				
9.11	22133235-60	15 Nov 2022	Day time	11	368				
9.12	22133235-61	15 Nov 2022	Day time	12	423				
9.13	22133235-62	15 Nov 2022	Day time	13	298				
9.14	22133235-63	15 Nov 2022	Day time	14	333				
9.15	22133235-64	15 Nov 2022	Day time	15	301				
9.16	22133235-65	15 Nov 2022	Day time	16	283				
9.17	22133235-66	15 Nov 2022	Day time	17	524				
9.18	22133235-67	15 Nov 2022	Day time	18	600				
9.19	22133235-68	15 Nov 2022	Day time	19	398				
9.20	22133235-69	15 Nov 2022	Day time	20	299				
9.21	22133235-70	15 Nov 2022	Day time	21	316				
9.22	22133235-71	15 Nov 2022	Day time	22	344				
9.23	22133235-72	15 Nov 2022	Day time	23	367				
9.24	22133235-73	15 Nov 2022	Day time	24	393				
9.25	22133235-74	15 Nov 2022	Day time	25	421				
9.26	22133235-75	15 Nov 2022	Day time	26	406				
9.27	22133235-76	15 Nov 2022	Day time	27	373				



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 8, Malyangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133236
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498441-1

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Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
1	Spot - Control Room : 3rd Floor : โถงลิฟท์งาน : ศูนย์บัญชาการ	22133236-1	15 Nov 2022	Day time	1	743	-	400-500	Pass
2	Spot - Control Room : 3rd Floor : โถงลิฟท์งาน : ศูนย์บัญชาการ	22133236-2	15 Nov 2022	Day time	1	768	-	400-500	Pass
3	Spot - Control Room : 3rd Floor : โถงลิฟท์งาน : ศูนย์บัญชาการ	22133236-3	15 Nov 2022	Day time	1	860	-	400-500	Pass
4	Spot - Control Room : 3rd Floor : โถงลิฟท์งาน : นักศึกษาฝึกงาน 1	22133236-4	15 Nov 2022	Day time	1	876	-	400-500	Pass
5	Spot - Control Room : 3rd Floor : โถงลิฟท์งาน : นักศึกษาฝึกงาน 2	22133236-5	15 Nov 2022	Day time	1	602	-	400-500	Pass
6.1	Area - Control Room : 3rd Floor : โถงลิฟท์งาน 2	22133236-6	15 Nov 2022	Day time	1	447	1,107	150 300	Pass
6.2	22133236-7	15 Nov 2022	Day time	2	542				
6.3	22133236-8	15 Nov 2022	Day time	3	657				
6.4	22133236-9	15 Nov 2022	Day time	4	905				
6.5	22133236-10	15 Nov 2022	Day time	5	2,940				
6.6	22133236-11	15 Nov 2022	Day time	6	846				
6.7	22133236-12	15 Nov 2022	Day time	7	1,394				
6.8	22133236-13	15 Nov 2022	Day time	8	1,126				
7.1	Area - Control Room : 3rd Floor : โถงลิฟท์งาน 1	22133236-14	15 Nov 2022	Day time	1	434	587.8	150 300	Pass
7.2	22133236-15	15 Nov 2022	Day time	2	469				
7.3	22133236-16	15 Nov 2022	Day time	3	811				
7.4	22133236-17	15 Nov 2022	Day time	4	586				
7.5	22133236-18	15 Nov 2022	Day time	5	592				
7.6	22133236-19	15 Nov 2022	Day time	6	635				
8.1	Area - Control Room : 3rd Floor : โถงลิฟท์งาน	22133236-20	15 Nov 2022	Day time	1	766	1,043	150 300	Pass
8.2	22133236-21	15 Nov 2022	Day time	2	693				
8.3	22133236-22	15 Nov 2022	Day time	3	824				
8.4	22133236-23	15 Nov 2022	Day time	4	1,764				
8.5	22133236-24	15 Nov 2022	Day time	5	1,123				
8.6	22133236-25	15 Nov 2022	Day time	6	1,087				

Technical Management

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 3 Limited
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P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133236
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498441-1

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Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Area - Control Room : 3rd Floor : ห้องลิฟต์									
9.1	22133236-26	15 Nov 2022	Day time	1	267	233.7	50	100	Pass
9.2	22133236-27	15 Nov 2022	Day time	2	214				
9.3	22133236-28	15 Nov 2022	Day time	3	220				
Area - Control Room : 3rd Floor : ห้องลิฟต์									
10.1	22133236-29	15 Nov 2022	Day time	1	290	344.0	50	100	Pass
10.2	22133236-30	15 Nov 2022	Day time	2	361				
10.3	22133236-31	15 Nov 2022	Day time	3	315				
10.4	22133236-32	15 Nov 2022	Day time	4	410				
Spot - Control Room : 3rd Floor : Operation Department Manager : ห้องลิฟต์ : ศูนย์บัญชาการ									
11	22133236-33	15 Nov 2022	Day time	1	713	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : OSM : ห้องลิฟต์									
12	22133236-34	15 Nov 2022	Day time	1	903	-	400-500	-	Pass
12	22133236-35	15 Nov 2022	Night time	1	621	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : CRO ABPR3 : ห้องลิฟต์									
13	22133236-36	15 Nov 2022	Day time	1	990	-	400-500	-	Pass
13	22133236-37	15 Nov 2022	Night time	1	987	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : CEMs Monitoring PC & Printer : C26									
14	22133236-38	15 Nov 2022	Day time	1	577	-	400-500	-	Pass
14	22133236-39	15 Nov 2022	Night time	1	534	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : PO 1 : ห้องลิฟต์									
15	22133236-40	15 Nov 2022	Day time	1	910	-	400-500	-	Pass
15	22133236-41	15 Nov 2022	Night time	1	649	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : PO 2 : ห้องลิฟต์									
16	22133236-42	15 Nov 2022	Day time	1	770	-	400-500	-	Pass
16	22133236-43	15 Nov 2022	Night time	1	762	-	400-500	-	Pass
Spot - Control Room : 3rd Floor : PO 3 : ห้องลิฟต์									
17	22133236-44	15 Nov 2022	Day time	1	990	-	400-500	-	Pass
17	22133236-45	15 Nov 2022	Night time	1	928	-	400-500	-	Pass

Technical Management

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P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133236
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498441-1

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Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
18.1	Area - Control Room : 3rd Floor : DCS Room	22133236-46	15 Nov 2022	Day time	1	685	739.6	100 200	Pass
18.2	22133236-47	15 Nov 2022	Day time	2	649				
18.3	22133236-48	15 Nov 2022	Day time	3	481				
18.4	22133236-49	15 Nov 2022	Day time	4	839				
18.5	22133236-50	15 Nov 2022	Day time	5	703				
18.6	22133236-51	15 Nov 2022	Day time	6	468				
18.7	22133236-52	15 Nov 2022	Day time	7	741				
18.8	22133236-53	15 Nov 2022	Day time	8	629				
18.9	22133236-54	15 Nov 2022	Day time	9	903				
18.10	22133236-55	15 Nov 2022	Day time	10	739				
18.11	22133236-56	15 Nov 2022	Day time	11	1,225				
18.12	22133236-57	15 Nov 2022	Day time	12	1,206				
18.13	22133236-58	15 Nov 2022	Day time	13	648				
18.14	22133236-59	15 Nov 2022	Day time	14	737				
18.15	22133236-60	15 Nov 2022	Day time	15	704				
18.16	22133236-61	15 Nov 2022	Day time	16	576				
18.17	22133236-62	15 Nov 2022	Day time	17	830				
18.18	22133236-63	15 Nov 2022	Day time	18	1,009				
18.1	22133236-64	15 Nov 2022	Night time	1	671	644.2	100 200	Pass	
18.2	22133236-65	15 Nov 2022	Night time	2	601				
18.3	22133236-66	15 Nov 2022	Night time	3	656				
18.4	22133236-67	15 Nov 2022	Night time	4	657				
18.5	22133236-68	15 Nov 2022	Night time	5	476				
18.6	22133236-69	15 Nov 2022	Night time	6	357				
18.7	22133236-70	15 Nov 2022	Night time	7	427				
18.8	22133236-71	15 Nov 2022	Night time	8	432				
18.9	22133236-72	15 Nov 2022	Night time	9	961				
18.10	22133236-73	15 Nov 2022	Night time	10	924				
18.11	22133236-74	15 Nov 2022	Night time	11	1,020				
18.12	22133236-75	15 Nov 2022	Night time	12	1,027				
18.13	22133236-76	15 Nov 2022	Night time	13	476				
18.14	22133236-77	15 Nov 2022	Night time	14	704				
18.15	22133236-78	15 Nov 2022	Night time	15	545				
18.16	22133236-79	15 Nov 2022	Night time	16	426				

Technical Management

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Analysis / Test Report

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7/491-2 Moo 8, Malyangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133236
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498441-1

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Layer No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
18.17	Area - Control Room : 3rd Floor : DCS Room	22133236-80	15 Nov 2022	Night time	17	824			
18.18	22133236-81	15 Nov 2022	Night time	18	1,001				
19.1	Area - Control Room : 3rd Floor : วนลิฟท์	22133236-82	15 Nov 2022	Day time	1	313	172.5	50 100	Pass
19.2	22133236-83	15 Nov 2022	Day time	2	392				
19.3	22133236-84	15 Nov 2022	Day time	3	109				
19.4	22133236-85	15 Nov 2022	Day time	4	126				
19.5	22133236-86	15 Nov 2022	Day time	5	192				
19.6	22133236-87	15 Nov 2022	Day time	6	102				
19.7	22133236-88	15 Nov 2022	Day time	7	130				
19.8	22133236-89	15 Nov 2022	Day time	8	105				
19.9	22133236-90	15 Nov 2022	Day time	9	119				
19.10	22133236-91	15 Nov 2022	Day time	10	146				
19.11	22133236-92	15 Nov 2022	Day time	11	102				
19.12	22133236-93	15 Nov 2022	Day time	12	163				
19.13	22133236-94	15 Nov 2022	Day time	13	182				
19.14	22133236-95	15 Nov 2022	Day time	14	116				
19.15	22133236-96	15 Nov 2022	Day time	15	291				
20.1	Area - Control Room : 3rd Floor : วนลิฟท์	22133236-97	15 Nov 2022	Day time	1	208	194.5	50 100	Pass
20.2	22133236-98	15 Nov 2022	Day time	2	151				
20.3	22133236-99	15 Nov 2022	Day time	3	256				
20.4	22133236-100	15 Nov 2022	Day time	4	163				

Measurement by : Nonnan Thongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133237
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498443-1

Page 1 of 1										
Layout No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment	
				Spot	Average	Spot/Min	Average			
1	Spot - LV Transformer : 2.1 MVA Auxiliary Trans3 (KKS No.03BFU10)	22133237-1	15 Nov 2022	Night time	1	215	-	200-300	-	Pass
2	Spot - LV Transformer : 2.1 MVA Auxiliary Trans4 (KKS No.03BFU20)	22133237-2	15 Nov 2022	Night time	1	232	-	200-300	-	Pass
3	Spot - LV Transformer : 1.2 MVA Auxiliary Trans5 (KKS No.03BFV10)	22133237-3	15 Nov 2022	Night time	1	245	-	200-300	-	Pass
4	Spot - LV Transformer : 1.2 MVA Auxiliary Trans6 (KKS No.03BFV20)	22133237-4	15 Nov 2022	Night time	1	226	-	200-300	-	Pass
5	Spot - LV Transformer : 1.6 MVA Auxiliary Trans1 (KKS No.03BFU10)	22133237-5	15 Nov 2022	Night time	1	260	-	200-300	-	Pass
6	Spot - LV Transformer : 1.6 MVA Auxiliary Trans2 (KKS No.03BFU20)	22133237-6	15 Nov 2022	Night time	1	206	-	200-300	-	Pass
7	Spot - EDG : EDG ADRP3	22133237-7	15 Nov 2022	Night time	1	226	-	200-300	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133238
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498445-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
1	Spot - WTP Area : DCS Room WTP 1 : ควบคุมอาคาร 22133238-1	15 Nov 2022	Night time	1	432	-	400-500	-	Pass
2	Spot - WTP Area : DCS Room WTP 2 : ควบคุมอาคาร 22133238-2	15 Nov 2022	Night time	1	674	-	400-500	-	Pass
3.1	Area - WTP Area : Electrical Room 22133238-3	15 Nov 2022	Night time	1	231	356.0	100	200	Pass
3.2	22133238-4	15 Nov 2022	Night time	2	447				
3.3	22133238-5	15 Nov 2022	Night time	3	390				
4.1	Area - WTP Area : Chemical Laboratory : ผลิตปุ๋ยอินทรีย์ 22133238-6	15 Nov 2022	Night time	1	586	557.5	150	300	Pass
4.2	22133238-7	15 Nov 2022	Night time	2	493				
4.3	22133238-8	15 Nov 2022	Night time	3	620				
4.4	22133238-9	15 Nov 2022	Night time	4	531				
5	Spot - WTP Area : Chemical Laboratory : ควบคุม Hood 22133238-10	15 Nov 2022	Night time	1	550	-	300-400	-	Pass
6.1	Area - WTP Area : Chemical Laboratory : ผลิตน้ำ 22133238-11	15 Nov 2022	Night time	1	266	245.0	50	100	Pass
6.2	22133238-12	15 Nov 2022	Night time	2	224				
7	Spot - WTP Area : Reverse Filtration Pump 22133238-13	15 Nov 2022	Night time	1	220	-	200-300	-	Pass
8	Spot - WTP Area : RO Feed Pump 22133238-14	15 Nov 2022	Night time	1	221	-	200-300	-	Pass
9	Spot - WTP Area : CEDI Feed Pump 22133238-15	15 Nov 2022	Night time	1	212	-	200-300	-	Pass
10	Spot - WTP Area : RO Water Tank 22133238-16	15 Nov 2022	Night time	1	215	-	200-300	-	Pass
11	Spot - WTP Area : CEDI Unit1&2/UE MF Unit 1&2 22133238-17	15 Nov 2022	Night time	1	229	-	200-300	-	Pass
12	Spot - WTP Area : PAC Tank 22133238-18	15 Nov 2022	Night time	1	212	-	200-300	-	Pass
13	Spot - WTP Area : RO Chemical 22133238-19	15 Nov 2022	Night time	1	232	-	200-300	-	Pass
14	Spot - WTP Area : Polymer Tank/Polymer pump 22133238-20	15 Nov 2022	Night time	1	420	-	200-300	-	Pass

Technical Management

Supot S
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Assistant Manager

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133238
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498445-1

Project Location :										Page 2 of 4
Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot / Area No.	Illuminance (Lux) Spot	Average	Guideline Limit Spot/Min	Average	Comment	
15	Spot - WTP Area : NaOH Tank/Pump 22133238-21 15 Nov 2022		Night time	1	468	-	200-300	-	Pass	
16.1	Area - WTP Area : Water Treatment Plant 22133238-22 15 Nov 2022		Night time	1	546	551.0	150	300	Pass	
16.2	22133238-23 15 Nov 2022		Night time	2	556					
17	Spot - WTP Area : NaOH Tank/Pump 22133238-24 15 Nov 2022		Night time	1	551	-	200-300	-	Pass	
18	Spot - WTP Area : PAC Tank/Pump 22133238-25 15 Nov 2022		Night time	1	472	-	200-300	-	Pass	
19	Spot - WTP Area : Neutralized Effluent Pump 22133238-26 15 Nov 2022		Night time	1	215	-	200-300	-	Pass	
20	Spot - WTP Area : Air Blower 22133238-27 15 Nov 2022		Night time	1	220	-	200-300	-	Pass	
21.1	Area - WTP Area : ควบคุมอาคาร WTP 22133238-28 15 Nov 2022		Night time	1	143	129.5	25	50	Pass	
21.2	22133238-29 15 Nov 2022		Night time	2	132					
21.3	22133238-30 15 Nov 2022		Night time	3	121					
21.4	22133238-31 15 Nov 2022		Night time	4	115					
21.5	22133238-32 15 Nov 2022		Night time	5	130					
21.6	22133238-33 15 Nov 2022		Night time	6	135					
21.7	22133238-34 15 Nov 2022		Night time	7	132					
21.8	22133238-35 15 Nov 2022		Night time	8	140					
21.9	22133238-36 15 Nov 2022		Night time	9	130					
21.10	22133238-37 15 Nov 2022		Night time	10	125					
21.11	22133238-38 15 Nov 2022		Night time	11	121					

Technical Management

Supot S
Supot Salamteh
Section Head

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Assistant Manager

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Analysis / Test Report

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7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133238
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498445-1

Project Location: <

Technical Management

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Supot Salamteh
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Lot ID: 22133238
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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Average	Guideline Limit	Spot/Min	Average	Comment
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Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133239
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498447-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Average	Guideline Limit	Spot/Min	Average	Comment
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1	Spot - WTP Area : Clarifier Analyser Panel	22133239-1	15 Nov 2022	Night time	1	230	-	200-300	-	Pass
2	Spot - WTP Area : Clarifier	22133239-2	15 Nov 2022	Night time	1	1	-	200-300	-	Fail
3	Spot - WTP Area : Sludge Container	22133239-3	15 Nov 2022	Night time	1	270	-	200-300	-	Pass
4	Spot - WTP Area : Sludge Tickener	22133239-4	15 Nov 2022	Night time	1	211	-	200-300	-	Pass
5	Spot - WTP Area : Sludge Feed Pump	22133239-5	15 Nov 2022	Night time	1	220	-	200-300	-	Pass
6	Spot - WTP Area : MF Feed Pump	22133239-6	15 Nov 2022	Night time	1	209	-	200-300	-	Pass
7	Spot - WTP Area : Clarified Water Pump	22133239-7	15 Nov 2022	Night time	1	212	-	200-300	-	Pass
8.1	Area - WTP Area : Sludge Thickener : ทรานส์	22133239-8	15 Nov 2022	Night time	1	56	57.4	25	50	Pass
8.2	22133239-9	15 Nov 2022	Night time	2	58					
8.3	22133239-10	15 Nov 2022	Night time	3	52					
8.4	22133239-11	15 Nov 2022	Night time	4	59					
8.5	22133239-12	15 Nov 2022	Night time	5	62					
9.1	Area - WTP Area : Sludge Container : ทรานส์	22133239-13	15 Nov 2022	Night time	1	51	52.0	25	50	Pass
9.2	22133239-14	15 Nov 2022	Night time	2	50					
9.3	22133239-15	15 Nov 2022	Night time	3	55					
10	Spot - WTP Area : Raw Water Pump (00GAF11AP001 / 00GAF12AP001 / 00GAF13AP001)	22133239-16	15 Nov 2022	Night time	1	212	-	200-300	-	Pass
11	Spot - WTP Area : Inspection Pit	22133239-17	15 Nov 2022	Night time	1	207	-	200-300	-	Pass
12	Spot - WTP Area : Raw Water Buffer Tank	22133239-18	15 Nov 2022	Night time	1	220	-	200-300	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133240
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498449-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Average	Guideline Limit	Spot/Min	Average	Comment
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1.1	Area - อาคาร Workshop : Ground Floor : ผนัง	22133240-1	15 Nov 2022	Day time	1	930	839.3	150	300	Pass
1.2	22133240-2	15 Nov 2022	Day time	2	790					
1.3	22133240-3	15 Nov 2022	Day time	3	817					
1.4	22133240-4	15 Nov 2022	Day time	4	820					
2.1	Area - อาคาร Workshop : Ground Floor : Mechanic Lab	22133240-5	15 Nov 2022	Day time	1	870	855.8	150	300	Pass
2.2	22133240-6	15 Nov 2022	Day time	2	857					
2.3	22133240-7	15 Nov 2022	Day time	3	812					
2.4	22133240-8	15 Nov 2022	Day time	4	884					
3.1	Area - อาคาร Workshop : Ground Floor : Lab 101	22133240-9	15 Nov 2022	Day time	1	814	862.5	150	300	Pass
3.2	22133240-10	15 Nov 2022	Day time	2	816					
3.3	22133240-11	15 Nov 2022	Day time	3	997					
3.4	22133240-12	15 Nov 2022	Day time	4	823					
4.1	Area - อาคาร Workshop : Ground Floor : ผนังห้อง	22133240-13	15 Nov 2022	Day time	1	357	348.5	50	100	Pass
4.2	22133240-14	15 Nov 2022	Day time	2	340					
5.1	Area - อาคาร Workshop : Ground Floor : ผนังด้าน	22133240-15	15 Nov 2022	Day time	1	538	382.5	50	100	Pass
5.2	22133240-16	15 Nov 2022	Day time	2	540					
5.3	22133240-17	15 Nov 2022	Day time	3	207					
5.4	22133240-18	15 Nov 2022	Day time	4	245					
6	Spot - อาคาร Workshop : Ground Floor : Mechanical Section Manager Room : ไม้กระดาน : กระจก	22133240-19	15 Nov 2022	Day time	1	1,291	-	400-500	-	Pass
6	22133240-20	15 Nov 2022	Day time	2	1,163	-	300			
6	22133240-21	15 Nov 2022	Day time	3	1,021	-	200			
7	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : C&I Section Manager	22133240-22	15 Nov 2022	Day time	1	922	-	400-500	-	Pass
8	Spot - อาคาร Workshop : Ground Floor : Electrical Manager Room : ไม้กระดาน : กระจก	22133240-23	15 Nov 2022	Day time	1	886	-	400-500	-	Pass
9	Spot - อาคาร Workshop : Ground Floor : Maintenance Manager Room : ไม้กระดาน : กระจก	22133240-24	15 Nov 2022	Day time	1	698	-	400-500	-	Pass

Technical Management

Supot S.
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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangporm, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133240
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498449-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Average	Guideline Limit	Spot/Min	Average	Comment
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10.1	Area - อาคาร Workshop : Ground Floor : ผนังกระจก WS	22133240-25	15 Nov 2022	Day time	1	827	799.3	150	300	Pass
10.2	22133240-26	15 Nov 2022	Day time	2	831					
10.3	22133240-27	15 Nov 2022	Day time	3	783					
10.4	22133240-28	15 Nov 2022	Day time	4	756					
12	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-29	15 Nov 2022	Day time	1	995	-	400-500	-	Pass
13	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-30	15 Nov 2022	Day time	1	916	-	400-500	-	Pass
14	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-31	15 Nov 2022	Day time	1	903	-	400-500	-	Pass
14	22133240-32	15 Nov 2022	Night time	1	912	-	400-500	-	Pass	
16	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-33	15 Nov 2022	Day time	1	768	-	400-500	-	Pass
17	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-34	15 Nov 2022	Day time	1	742	-	400-500	-	Pass
18	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-35	15 Nov 2022	Day time	1	718	-	400-500	-	Pass
18	22133240-36	15 Nov 2022	Night time	1	701	-	400-500	-	Pass	
19	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-37	15 Nov 2022	Day time	1	858	-	400-500	-	Pass
20	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-38	15 Nov 2022	Day time	1	889	-	400-500	-	Pass
21	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-39	15 Nov 2022	Day time	1	876	-	400-500	-	Pass
21	22133240-40	15 Nov 2022	Night time	1	903	-	400-500	-	Pass	
22	Spot - อาคาร Workshop : Ground Floor : ไม้กระดาน : กระจก	22133240-41	15 Nov 2022	Day time	1	996	-	400-500	-	Pass
23.1	Area - อาคาร Workshop : Ground Floor : C&I Lab	22133240-42	15 Nov 2022	Day time	1	998	890.8	150	300	Pass
23.2	22133240-43	15 Nov 2022	Day time	2	852					
23.3	22133240-44	15 Nov 2022	Day time	3	847					
23.4	22133240-45	15 Nov 2022	Day time	4	866					

Technical Management

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Wichan Choonharat
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Analysis / Test Report

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7/491-2 Moo 6, Mahayangorn, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133240
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498449-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Spot - อาคาร Workshop : Ground Floor : Store Office : โต๊ะทำงาน : ชุดตรวจ									
24	22133240-46	15 Nov 2022	Day time	1	460	-	400-500	-	Pass
Spot - อาคาร Workshop : Ground Floor : Store Office : โต๊ะทำงาน : ชุดตรวจ									
25	22133240-47	15 Nov 2022	Day time	1	458	-	400-500	-	Pass
Spot - อาคาร Workshop : Ground Floor : TOCL Room : โต๊ะทำงาน : ชุดตรวจ									
26	22133240-48	15 Nov 2022	Day time	1	626	-	400-500	-	Pass
Area - อาคาร Workshop : Ground Floor : Store electronic									
27.1	22133240-49	15 Nov 2022	Day time	1	655	648.8	100	200	Pass
27.2	22133240-50	15 Nov 2022	Day time	2	640				
27.3	22133240-51	15 Nov 2022	Day time	3	669				
27.4	22133240-52	15 Nov 2022	Day time	4	631				
Area - อาคาร Workshop : Ground Floor : ครัว									
28.1	22133240-53	15 Nov 2022	Night time	1	916	494.4	50	100	Pass
28.2	22133240-54	15 Nov 2022	Night time	2	829				
28.3	22133240-55	15 Nov 2022	Night time	3	756				
28.4	22133240-56	15 Nov 2022	Night time	4	366				
28.5	22133240-57	15 Nov 2022	Night time	5	290				
28.6	22133240-58	15 Nov 2022	Night time	6	460				
28.7	22133240-59	15 Nov 2022	Night time	7	382				
28.8	22133240-60	15 Nov 2022	Night time	8	465				
28.9	22133240-61	15 Nov 2022	Night time	9	311				
28.10	22133240-62	15 Nov 2022	Night time	10	329				
28.11	22133240-63	15 Nov 2022	Night time	11	428				
28.12	22133240-64	15 Nov 2022	Night time	12	401				

Technical Management

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P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133240
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498449-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Area - อาคาร Workshop : Ground Floor : Work Shop									
29.1	22133240-65	15 Nov 2022	Night time	1	442	501.3	150	300	Pass
29.2	22133240-66	15 Nov 2022	Night time	2	432				
29.3	22133240-67	15 Nov 2022	Night time	3	503				
29.4	22133240-68	15 Nov 2022	Night time	4	574				
29.5	22133240-69	15 Nov 2022	Night time	5	547				
29.6	22133240-70	15 Nov 2022	Night time	6	522				
29.7	22133240-71	15 Nov 2022	Night time	7	563				
29.8	22133240-72	15 Nov 2022	Night time	8	432				
29.9	22133240-73	15 Nov 2022	Night time	9	381				
29.10	22133240-74	15 Nov 2022	Night time	10	406				
29.11	22133240-75	15 Nov 2022	Night time	11	528				
29.12	22133240-76	15 Nov 2022	Night time	12	519				
29.13	22133240-77	15 Nov 2022	Night time	13	602				
29.14	22133240-78	15 Nov 2022	Night time	14	552				
29.15	22133240-79	15 Nov 2022	Night time	15	560				
29.16	22133240-80	15 Nov 2022	Night time	16	592				
29.17	22133240-81	15 Nov 2022	Night time	17	481				
29.18	22133240-82	15 Nov 2022	Night time	18	514				
29.19	22133240-83	15 Nov 2022	Night time	19	527				
29.20	22133240-84	15 Nov 2022	Night time	20	491				
29.21	22133240-85	15 Nov 2022	Night time	21	473				
29.22	22133240-86	15 Nov 2022	Night time	22	409				
29.23	22133240-87	15 Nov 2022	Night time	23	488				
29.24	22133240-88	15 Nov 2022	Night time	24	493				
Area - อาคาร Workshop : Ground Floor : ห้องประชุม/โถง									
30.1	22133240-89	15 Nov 2022	Night time	1	549	647.5	100	200	Pass
30.2	22133240-90	15 Nov 2022	Night time	2	746				
Spot - อาคาร Workshop : Ground Floor : โต๊ะทำงาน : ชุดตรวจ									
31	22133240-91	15 Nov 2022	Day time	1	974	-	400-500	-	Pass
Spot - อาคาร Workshop : Ground Floor : โต๊ะทำงาน : ชุดตรวจ									
32	22133240-92	15 Nov 2022	Day time	1	980	-	400-500	-	Pass
Spot - อาคาร Workshop : Ground Floor : โต๊ะทำงาน : ชุดตรวจ									
33	22133240-93	15 Nov 2022	Day time	1	876	-	400-500	-	Pass

Technical Management

Supot S
Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangorn, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133240
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498449-1

Page 5 of 5

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
34	22133240-94	15 Nov 2022	Day time	1	862	-	400-500	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangorn, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABRP 3
Project Location :

Lot ID: 22133241
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498451-1

Page 1 of 2

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
Area - อาคาร Workshop : 1st Floor : Store Area A									
1.1	22133241-1	15 Nov 2022	Day time	1	579	601.8	100	200	Pass
1.2	22133241-2	15 Nov 2022	Day time	2	538				
1.3	22133241-3	15 Nov 2022	Day time	3	627				
1.4	22133241-4	15 Nov 2022	Day time	4	685				
1.5	22133241-5	15 Nov 2022	Day time	5	656				
1.6	22133241-6	15 Nov 2022	Day time	6	466				
1.7	22133241-7	15 Nov 2022	Day time	7	649				
1.8	22133241-8	15 Nov 2022	Day time	8	616				
1.9	22133241-9	15 Nov 2022	Day time	9	641				
1.10	22133241-10	15 Nov 2022	Day time	10	622				
1.11	22133241-11	15 Nov 2022	Day time	11	638				
1.12	22133241-12	15 Nov 2022	Day time	12	627				
1.13	22133241-13	15 Nov 2022	Day time	13	643				
1.14	22133241-14	15 Nov 2022	Day time	14	611				
1.15	22133241-15	15 Nov 2022	Day time	15	598				
1.16	22133241-16	15 Nov 2022	Day time	16	542				
1.17	22133241-17	15 Nov 2022	Day time	17	518				
1.18	22133241-18	15 Nov 2022	Day time	18	577				
Area - อาคาร Workshop : 2nd Floor : Store Area W									
2.1	22133241-19	15 Nov 2022	Day time	1	335	254.2	100	200	Pass
2.2	22133241-20	15 Nov 2022	Day time	2	286				
2.3	22133241-21	15 Nov 2022	Day time	3	201				
2.4	22133241-22	15 Nov 2022	Day time	4	279				
2.5	22133241-23	15 Nov 2022	Day time	5	277				
2.6	22133241-24	15 Nov 2022	Day time	6	272				
2.7	22133241-25	15 Nov 2022	Day time	7	201				
2.8	22133241-26	15 Nov 2022	Day time	8	235				
2.9	22133241-27	15 Nov 2022	Day time	9	214				
2.10	22133241-28	15 Nov 2022	Day time	10	242				

Technical Management

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Layout No.	Reference Number	Measurement Date	Measurement Time	Spot / Area No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment		
Area - อาคาร Workshop : 2nd Floor : Store Area A									
3.1	22133241-29	15 Nov 2022	Day time	1	543	300.7	100	200	Pass
3.2	22133241-30	15 Nov 2022	Day time	2	437				
3.3	22133241-31	15 Nov 2022	Day time	3	428				
3.4	22133241-32	15 Nov 2022	Day time	4	336				
3.5	22133241-33	15 Nov 2022	Day time	5	266				
3.6	22133241-34	15 Nov 2022	Day time	6	260				
3.7	22133241-35	15 Nov 2022	Day time	7	220				
3.8	22133241-36	15 Nov 2022	Day time	8	219				
3.9	22133241-37	15 Nov 2022	Day time	9	324				
3.10	22133241-38	15 Nov 2022	Day time	10	221				
3.11	22133241-39	15 Nov 2022	Day time	11	199				
3.12	22133241-40	15 Nov 2022	Day time	12	216				
3.13	22133241-41	15 Nov 2022	Day time	13	306				
3.14	22133241-42	15 Nov 2022	Day time	14	293				
3.15	22133241-43	15 Nov 2022	Day time	15	242				

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
	Spot - Cooling Tower&CWP Area : Auxiliary Cooling Water Pump (03PCP11AP001 / 03PCP12AP001)								
1	22133242-1	15 Nov 2022	Night time	1	268	-	200-300	-	Pass
	Spot - Cooling Tower&CWP Area : Main Cooling Water Pump (03PAC11AP001/03PAC12AP001)								
2	22133242-2	15 Nov 2022	Night time	1	202	-	200-300	-	Pass
	Spot - Cooling Tower&CWP Area : Retesting Pit Pump (03GMB21AP001/03GMB22AP001)								
3	22133242-3	15 Nov 2022	Night time	1	326	-	200-300	-	Pass
	Area - Cooling Tower&CWP Area : ทดสอบเครื่อง Cooling Tower use Retention/Emergency Pit								
4.1	22133242-4	15 Nov 2022	Night time	1	54	52.1	25	50	Pass
4.2	22133242-5	15 Nov 2022	Night time	2	50				
4.3	22133242-6	15 Nov 2022	Night time	3	47				
4.4	22133242-7	15 Nov 2022	Night time	4	55				
4.5	22133242-8	15 Nov 2022	Night time	5	52				
4.6	22133242-9	15 Nov 2022	Night time	6	54				
4.7	22133242-10	15 Nov 2022	Night time	7	50				
4.8	22133242-11	15 Nov 2022	Night time	8	51				
4.9	22133242-12	15 Nov 2022	Night time	9	49				
4.10	22133242-13	15 Nov 2022	Night time	10	52				
4.11	22133242-14	15 Nov 2022	Night time	11	54				
4.12	22133242-15	15 Nov 2022	Night time	12	57				
4.13	22133242-16	15 Nov 2022	Night time	13	56				
4.14	22133242-17	15 Nov 2022	Night time	14	52				
4.15	22133242-18	15 Nov 2022	Night time	15	50				
4.16	22133242-19	15 Nov 2022	Night time	16	50				
	Spot - Cooling Tower&CWP Area : Emergency Pit Pump (03GMB51AP001/03GMB52AP001)								
5	22133242-20	15 Nov 2022	Night time	1	246	-	200-300	-	Pass
	Spot - Cooling Tower&CWP Area : Cooling Tower Chemical Dosing System (30PDN10)								
6	22133242-21	15 Nov 2022	Night time	1	226	-	200-300	-	Pass
	Spot - Cooling Tower&CWP Area : Cooling Tower (30PAC11AH001/30PAC10AH001)								
7	22133242-22	15 Nov 2022	Night time	1	210		200-300	-	Pass

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Layout No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
1	Spot - GT31 : Temp Gauge 03PG66GCT501 22132343-1	15 Nov 2022	Night time	1	232	-	200-300	-	Pass
2	Spot - GT31 : GTG Control Room GT31 22132343-2	15 Nov 2022	Night time	1	223	-	200-300	-	Pass
3	Spot - GT31 : Fill Gas Flow Meter 22132343-3	15 Nov 2022	Night time	1	220	-	200-300	-	Pass
4	Spot - GT31 : Fuel Gas Filter 22132343-4	15 Nov 2022	Night time	1	230	-	200-300	-	Pass
5	Spot - HRS631 : Sampling Pack 22132343-5	15 Nov 2022	Night time	1	505	-	200-300	-	Pass
6.1	Area - HRS631 : HRS6 Local Control Building 22132343-6	15 Nov 2022	Night time	1	931	925.5	100	200	Pass
6.2	22132343-7	15 Nov 2022	Night time	2	920	-	-	-	-
7.1	Area - HRS631 : ห้องสูบลม 1 22132343-8	15 Nov 2022	Night time	1	322	345.0	25	50	Pass
7.2	22132343-9	15 Nov 2022	Night time	2	315	-	-	-	-
7.3	22132343-10	15 Nov 2022	Night time	3	398	-	-	-	-
8	Spot - HRS631 : LP Drum/HP Drum 31 22132343-11	15 Nov 2022	Night time	1	218	-	200-300	-	Pass
9	Spot - HRS631 : HRS6 Blow Down Tank Pkt : 31LCQ10BB001 22132343-12	15 Nov 2022	Night time	1	220	-	200-300	-	Pass
10	Spot - HRS631 : HRS6 CEMS : 31CRA10GH001 22132343-13	15 Nov 2022	Night time	1	210	-	200-300	-	Pass
11	Spot - Deacator : Deacator (03LAA10BB001) 22132343-14	15 Nov 2022	Night time	1	266	-	200-300	-	Pass
12	Spot - Deacator : Feed Water Heat Exchanger (03LAC10AC001) 22132343-15	15 Nov 2022	Night time	1	303	-	200-300	-	Pass
13	Spot - Deacator : HP/LP Boiler Feed Water Pump (03LAC41AP001 / 03LAC41AP001 / 03LAC43AP001 / 03LAC11AP001 / 03LAC2AP001 / 03LAC13AP001) 22132343-16	15 Nov 2022	Night time	1	326	-	200-300	-	Pass
14	Spot - HRS632 : Feed Water Chemical Dosing System 22132343-17	15 Nov 2022	Night time	1	312	-	200-300	-	Pass

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Area - HRSG32 : บันได ขั้น 1									
15.1	22133243-18	15 Nov 2022	Night time	1	360	375.3	25	50	Pass
15.2	22133243-19	15 Nov 2022	Night time	2	-	377	-	-	-
15.3	22133243-20	15 Nov 2022	Night time	3	389	-	-	-	-
Spot - HRSG32 : LP Drum/HP Drum 32									
16	22133243-21	15 Nov 2022	Night time	1	269	-	200-300	-	Pass
Spot - HRSG32 : HRSG Blow Down Tank PH : 3ZLCQ10B8001									
17	22133243-22	15 Nov 2022	Night time	1	225	-	200-300	-	Pass
Spot - HRSG32 : HRSG CEMS : 32CNA10GH001									
18	22133243-23	15 Nov 2022	Night time	1	211	-	200-300	-	Pass
Spot - GT32 : Fuel Gas Filter									
19	22133243-24	15 Nov 2022	Night time	1	207	-	200-300	-	Pass
Spot - GT32 : GTG Control Room GT32									
20	22133243-25	15 Nov 2022	Night time	1	542	-	200-300	-	Pass
Spot - GT32 : Fill Gas Flow Meter									
21	22133243-26	15 Nov 2022	Night time	1	228	-	200-300	-	Pass
Spot - GT32 : Temp Gauge 03PGB86CT501									
22	22133243-27	15 Nov 2022	Night time	1	245	-	200-300	-	Pass
Area - ทรานสดิวเซอร์ GT31 และ GT32									
23.1	22133243-28	15 Nov 2022	Night time	1	51	52.3	25	50	Pass
23.2	22133243-29	15 Nov 2022	Night time	2	50	-	-	-	-
23.3	22133243-30	15 Nov 2022	Night time	3	55	-	-	-	-
23.4	22133243-31	15 Nov 2022	Night time	4	53	-	-	-	-
Area - ทรานสดิวเซอร์ HRSG31 และ HRSG32									
24.1	22133243-32	15 Nov 2022	Night time	1	5	10.7	25	50	Fail
24.2	22133243-33	15 Nov 2022	Night time	2	7	-	-	-	-
24.3	22133243-34	15 Nov 2022	Night time	3	12	-	-	-	-
24.4	22133243-35	15 Nov 2022	Night time	4	16	-	-	-	-
24.5	22133243-36	15 Nov 2022	Night time	5	13	-	-	-	-
24.6	22133243-37	15 Nov 2022	Night time	6	12	-	-	-	-
24.7	22133243-38	15 Nov 2022	Night time	7	12	-	-	-	-
24.8	22133243-39	15 Nov 2022	Night time	8	10	-	-	-	-
24.9	22133243-40	15 Nov 2022	Night time	9	11	-	-	-	-
24.10	22133243-41	15 Nov 2022	Night time	10	9	-	-	-	-

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133243
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498455-1

Page 3 of 3

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
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Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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Supot Salameh
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Analysis / Test Report

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P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133244
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498457-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
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1.1	22133244-1	15 Nov 2022	Night time	1	3	2.3	25	50	Fail
1.2	22133244-2	15 Nov 2022	Night time	2	2				
1.3	22133244-3	15 Nov 2022	Night time	3	2				
2.1	22133244-4	15 Nov 2022	Night time	1	4	3.5	150	300	Fail
2.2	22133244-5	15 Nov 2022	Night time	2	3				
3	22133244-6	15 Nov 2022	Night time	1	209	-	200-300	-	Pass
4	22133244-7	15 Nov 2022	Night time	1	211	-	200-300	-	Pass
5	22133244-8	15 Nov 2022	Night time	1	207	-	200-300	-	Pass
6	22133244-9	15 Nov 2022	Night time	1	226	-	200-300	-	Pass
7	22133244-10	15 Nov 2022	Night time	1	227	-	200-300	-	Pass
8	22133244-11	15 Nov 2022	Night time	1	226	-	200-300	-	Pass
9	22133244-12	15 Nov 2022	Night time	1	220	-	200-300	-	Pass
10	22133244-13	15 Nov 2022	Night time	1	232	-	200-300	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

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7/491-2 Moo 6, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133245
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498459-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
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1.1	22133245-1	15 Nov 2022	Day time	1	563	538.8	150	300	Pass
1.2	22133245-2	15 Nov 2022	Day time	2	535				
1.3	22133245-3	15 Nov 2022	Day time	3	519				
1.4	22133245-4	15 Nov 2022	Day time	4	538				
2	22133245-5	15 Nov 2022	Day time	1	411	-	200-300	-	Pass
3.1	22133245-6	15 Nov 2022	Day time	1	208	214.5	50	100	Pass
3.2	22133245-7	15 Nov 2022	Day time	2	221				
4.1	22133245-8	15 Nov 2022	Day time	1	374	398.3	100	200	Pass
4.2	22133245-9	15 Nov 2022	Day time	2	487				
4.3	22133245-10	15 Nov 2022	Day time	3	534				
5.1	22133245-11	15 Nov 2022	Day time	1	411	416.3	100	200	Pass
5.2	22133245-12	15 Nov 2022	Day time	2	350				
5.3	22133245-13	15 Nov 2022	Day time	3	488				
6	22133245-14	15 Nov 2022	Day time	1	523	-	400-500	-	Pass
7	22133245-15	15 Nov 2022	Day time	1	628	-	400-500	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 3 Limited
7/491-2 Moo 6, Mahayangpoom, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABPR 3
Project Location :

Lot ID: 22133246
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498461-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
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1	22133246-1	15 Nov 2022	Night time	1	260	-	200-300	-	Pass
2.1	22133246-2	15 Nov 2022	Night time	1	610	749.7	100	200	Pass
2.2	22133246-3	15 Nov 2022	Night time	2	581				
2.3	22133246-4	15 Nov 2022	Night time	3	634				
2.4	22133246-5	15 Nov 2022	Night time	4	753				
2.5	22133246-6	15 Nov 2022	Night time	5	949				
2.6	22133246-7	15 Nov 2022	Night time	6	971				
3	22133246-8	15 Nov 2022	Night time	1	977	-	200-300	-	Pass
4	22133246-9	15 Nov 2022	Night time	1	509	-	200-300	-	Pass
5	22133246-10	15 Nov 2022	Night time	1	439	-	200-300	-	Pass

Measurement by : Noranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salameh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Hss 6, Mahayangpuri, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABR 3
Project Location :

Lot ID: 22133247
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498463-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux)	Average	Guideline Limit	Spot/Min	Average	Comment
1	22133247-1	15 Nov 2022	Night time	1	319	-	-	200-300	-	-	Pass
Spot - Switchyard Area : GTG Step-Up Transformer 1 (GT GSUT03AEA20)											
2	22133247-2	15 Nov 2022	Night time	1	322	-	-	200-300	-	-	Pass
Spot - Switchyard Area : GTG Step-Up Transformer 2 (GT GSUT03AEA30)											
3	22133247-3	15 Nov 2022	Night time	1	320	-	-	200-300	-	-	Pass
Spot - Switchyard Area : STG Step-Up Transformer (ST GSUT03AEA40)											
4	22133247-4	15 Nov 2022	Night time	1	330	-	-	200-300	-	-	Pass
Spot - Switchyard Area : Unit Auxiliary Transformer (UAT31BBT10)											
5	22133247-5	15 Nov 2022	Night time	1	325	-	-	200-300	-	-	Pass
Spot - Switchyard Area : Unit Auxiliary Transformer (UAT32BBT10)											

Measurement by : Nonranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 3 Limited
7/491-2 Hss 6, Mahayangpuri, Phukdaeng, Rayong 21140
P/O : 221330056
Project Name : ABR 3
Project Location :

Lot ID: 22133248
Date Received : Nov 18, 2022
Date Reported : Nov 22, 2022
Report Number : 2498465-1

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Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Spot	Illuminance (Lux)	Average	Guideline Limit	Spot/Min	Average	Comment
1.1	22133248-1	15 Nov 2022	Night time	1	212	214.3	200	300			Fail
Area - Water Tank Area : Water Pump station (00GBK11AP001 / 00GBK12AP001 / 00GBK13AP001)											
1.2	22133248-2	15 Nov 2022	Night time	2	220						
1.3	22133248-3	15 Nov 2022	Night time	3	211						
Area - Water Tank Area : Water Pump station (00GBK21AP001 / 00GBK22AP001 / 00GBK23AP001 / 00GBL31AP001 / 00GBL32AP001 / 00GBL33AP001)											
2.1	22133248-4	15 Nov 2022	Night time	1	227	222.7	200	300			Fail
2.2	22133248-5	15 Nov 2022	Night time	2	232						
2.3	22133248-6	15 Nov 2022	Night time	3	209						

Measurement by : Nonranon Tathongkham Personnel of ALS Laboratory Group (Thailand) Co., Ltd.
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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