

ภาคผนวก ค

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เอกสารประกอบมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค.1

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ผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

Request No. LA67-0826

Report No. 6708-0394

## TEST REPORT

CUSTOMER : B. Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Srirach, Chonburi 20230  
SAMPLE SOURCE : B. Grimm Power (WHA) 1 Limited  
SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG)#11  
SAMPLING DATE : 19/08/2024 SAMPLE NO. : 03099  
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 10:10-10:47  
TESTED DATE : 21-22/08/2024 REPORTED DATE : 27/08/2024  
STACK DESCRIPTION @

Height :	45.00	m	Type of Process :	Combustion
Diameter :	2.89	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Operation Capacity :	34.43 MW
Air Velocity :	18.85	m/s	Oxygen Content :	14.15 %
Flow rate <sup>4</sup> :	321,095	Nm <sup>3</sup> /hr	Barometric Pressure :	748.97 mmHg
Moisture Content :	8.84	%	Atmospheric Temperature :	37.00 °C
Shape :	Circle		Carbon Dioxide :	3.88 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>4</sup>		STD	UNIT
			14.15 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	10:10-10:47	0.6	1.2	60 <sup>1</sup> , 320 <sup>2</sup> , 6.85 <sup>3</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0535 <sup>@</sup>	-	0.45 <sup>3</sup>	g/s

**REMARK:**

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>3</sup> ค่ามาตรฐานคุณภาพอากาศจากปล่อง ตามที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม (EIA)
- <sup>4</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- GPS 47P 726905, 1445206

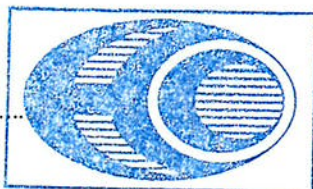
Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

27/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

27/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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WITHOUT THE WRITTEN APPROVAL LABORATORY

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## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG) #11  
SAMPLING DATE : 19/08/2024  
RECEIVED DATE : 20/08/2024  
SAMPLE NO. : 30066-30067  
SAMPLING TIME : 10:10-10:40  
REPORTED DATE : 23/08/2024

STACK DESCRIPTION<sup>4</sup>

Height :	45.00	m	Type of Process :	Combustion
Diameter :	2.89	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Operation Capacity :	34.35 MW
Air Velocity :	18.85	m/s	Oxygen Content :	14.15 %
Flow rate <sup>4</sup> :	321,095	Nm <sup>3</sup> /hr	Barometric Pressure :	748.97 mmHg
Moisture Content :	8.84	%	Atmospheric Temperature :	37.00 °C
Shape :	Circle		Carbon Dioxide :	3.88 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>4</sup>		STD	UNIT
			14.15 % O <sub>2</sub>	7 % O <sub>2</sub>		
Sulfur Dioxide (SO <sub>2</sub> )	Instrumental Analyzer Method	10:10-10:40	<2.6	<5.4	52 <sup>1</sup> , 157 <sup>2</sup>	mg/m <sup>3</sup>
	(U.S. EPA Method 6C)		<1.0	<2.1	20 <sup>1</sup> , 60 <sup>2</sup> , 3.5 <sup>3</sup>	ppm
			<0.2319 <sup>4</sup>		0.60 <sup>3</sup>	g/s
Oxides of Nitrogen (NO <sub>x</sub> )	Instrumental Analyzer Method	10:10-10:40	18.8	38.7	226 <sup>1</sup> , 376 <sup>2</sup>	mg/m <sup>3</sup>
	(U.S. EPA Method 7E)		10.0	20.6	120 <sup>1</sup> , 200 <sup>2</sup> , 60 <sup>3</sup>	ppm
			1.6768 <sup>4</sup>		7.34 <sup>3</sup>	g/s

## REMARK:

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>3</sup> ค่าควบคุม ตามที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม (EIA)
- <sup>4</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Nitchaphon Thonglor (ว-003-ท-0032)
- <sup>6</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS 47P 726905, 1445206

Examined By

Thongchai Boonsak

(Mr. Thongchai Boonsak)

(ว-003-ท-0012)

23/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

Wanpen Lhaochindawat

(Mrs. Wanpen Lhaochindawat)

(ว-003-ท-0003)

23/08/2024

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Request No. LA67-0826

Report No. 6708-0395

## TEST REPORT

CUSTOMER : B. Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Srirach, Chonburi 20230  
SAMPLE SOURCE : B. Grimm Power (WHA) 1 Limited  
SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG)#11  
SAMPLING DATE : 19/08/2024  
RECEIVED DATE : 21/08/2024  
TESTED DATE : 21-24/08/2024  
STACK DESCRIPTION @

Height :	45.00	m	Type of Process :	Combustion
Diameter :	2.89	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Operation Capacity :	34.43 MW
Air Velocity :	18.85	m/s	Oxygen Content :	14.15 %
Flow rate <sup>2</sup> :	321,095	Nm <sup>3</sup> /hr	Barometric Pressure :	748.97 mmHg
Moisture Content :	8.84	%	Atmospheric Temperature :	37.00 °C
Shape :	Circle		Carbon Dioxide :	3.88 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			14.15 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon monoxide	Non-Dispersive Infrared	10:10-10:40	0.8	1.6	790	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		0.7	1.4	690	ppm
			0.0714 <sup>@</sup>	-	-	g/s

## REMARK:

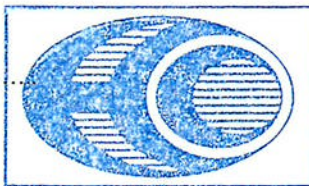
- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- GPS 47P 726905, 1445206

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

27/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

27/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA67-0826

Report No. 6708-0398

## TEST REPORT

CUSTOMER : B. Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Srirach, Chonburi 20230  
SAMPLE SOURCE : B. Grimm Power (WHA) 1 Limited  
SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG)#12  
SAMPLING DATE : 20/08/2024 SAMPLE NO. : 03103  
RECEIVED DATE : 21/08/2024 SAMPLING TIME : 08:50-09:27  
TESTED DATE : 21-24/08/2024 REPORTED DATE : 27/08/2024  
STACK DESCRIPTION @

Height : 45.00 m	Type of Process : Combustion
Diameter : 2.89 m	Type of Fuel : Natural Gas
Temperature : 95.00 °C	Operation Capacity : 34.35 MW
Air Velocity : 18.45 m/s	Oxygen Content : 14.00 %
Flow rate <sup>4</sup> : 320,926 Nm <sup>3</sup> /hr	Barometric Pressure : 749.12 mmHg
Moisture Content : 7.62 %	Atmospheric Temperature : 37.00 °C
Shape : Circle %	Carbon Dioxide : 3.08 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>4</sup>		STD	UNIT
			14.00 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	08:50-09:27	0.5	1.0	60 <sup>1</sup> , 320 <sup>2</sup> , 6.85 <sup>3</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0446 <sup>@</sup>	-	0.45 <sup>3</sup>	g/s

## REMARK:

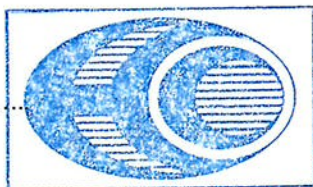
- <sup>1</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>3</sup> ค่ามาตรฐานคุณภาพอากาศจากปล่อง ตามที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม (EIA)
- <sup>4</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- GPS 47P 726905, 1445231

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

27/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

27/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
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## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG) #12  
SAMPLING DATE : 20/08/2024  
RECEIVED DATE : 20/08/2024  
SAMPLE NO. : 30070-30071  
SAMPLING TIME : 08:50-09:20  
REPORTED DATE : 23/08/2024

STACK DESCRIPTION<sup>ac</sup>

Height :	45.00	m	Type of Process :	Combustion
Diameter :	2.89	m	Type of Fuel :	Natural Gas
Temperature :	95.00	°C	Operation Capacity :	32.22 MW
Air Velocity :	18.45	m/s	Oxygen Content :	14.00 %
Flow rate <sup>4</sup> :	320,926	Nm <sup>3</sup> /hr	Barometric Pressure :	749.12 mmHg
Moisture Content :	7.62	%	Atmospheric Temperature :	37.00 °C
Shape :	Circle		Carbon Dioxide :	3.08 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>4</sup>		STD	UNIT
			14.00 % O <sub>2</sub>	7 % O <sub>2</sub>		
Sulfur Dioxide (SO <sub>2</sub> )	Instrumental Analyzer Method (U.S. EPA Method 6C)	08:50-09:20	<2.6	<5.2	52 <sup>1</sup> , 157 <sup>2</sup>	mg/m <sup>3</sup>
			<1.0	<2.0	20 <sup>1</sup> , 60 <sup>2</sup> , 3.5 <sup>3</sup>	ppm
			<0.2318 <sup>6a</sup>		0.60 <sup>3</sup>	g/s
Oxides of Nitrogen (NO <sub>x</sub> )	Instrumental Analyzer Method (U.S. EPA Method 7E)	08:50-09:20	11.5	23.2	226 <sup>1</sup> , 376 <sup>2</sup>	mg/m <sup>3</sup>
			6.1	12.3	120 <sup>1</sup> , 200 <sup>2</sup> , 60 <sup>3</sup>	ppm
			1.0252 <sup>6a</sup>		7.34 <sup>3</sup>	g/s

## REMARK:

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>3</sup> ค่าควบคุม ตามที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม (EIA)
- <sup>4</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Nitchaphon Thonglor (ว-003-ค-0032)
- <sup>6a</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS 47P 726905, 1445231

Examined By.....

Thongchai Boonsak

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

23/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

Wanpen Lhaochindawat

(Mrs. Wanpen Lhaochindawat)

(ว-003-ค-0003)

23/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA67-0826

Report No. 6708-0399

## TEST REPORT

CUSTOMER : B. Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Srirach, Chonburi 20230  
 SAMPLE SOURCE : B. Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : ปล่องหน่วยผลิตไอน้ำ (HRSG)#12  
 SAMPLING DATE : 20/08/2024 SAMPLE NO. : 03104  
 RECEIVED DATE : 21/08/2024 SAMPLING TIME : 08:50-09:20  
 TESTED DATE : 21-24/08/2024 REPORTED DATE : 27/08/2024

## STACK DESCRIPTION @

Height :	45.00	m	Type of Process :	Combustion
Diameter :	2.89	m	Type of Fuel :	Natural Gas
Temperature :	95.00	°C	Operation Capacity :	34.35 MW
Air Velocity :	18.45	m/s	Oxygen Content :	14.00 %
Flow rate <sup>2</sup> :	320,926	Nm <sup>3</sup> /hr	Barometric Pressure :	749.12 mmHg
Moisture Content :	7.62	%	Atmospheric Temperature :	37.00 °C
Shape :	Circle	%	Carbon Dioxide :	3.08 %

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			14.00 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon monoxide	Non-Dispersive Infrared	08:50-09:20	0.9	1.8	790	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		0.8	1.6	690	ppm
			0.0802 <sup>@</sup>	-	-	g/s

## REMARK:

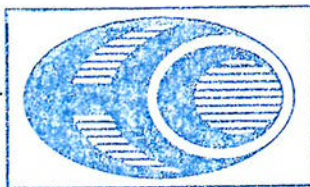
- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Nitchaphon Tonglor (จ-003-ค-0032)
- GPS 47P 726905, 1445231

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

27/08/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

27/08/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6708048

Report No. 6708-0896 - 6708-0902

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA)1 Limited  
ADDRESS : 369/27 Moo.6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA)1 Limited  
SAMPLE NAME : บริเวณบ้านเขาหิน  
RECEIVED DATE : 27/08/2024 SAMPLE NO. : A67080896 - A67080902  
TESTED DATE : 27/08/2024-30/08/2024 REPORTED DATE : 03/09/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	17-18/08/2024	0.047	0.33	mg/m <sup>3</sup>
		18-19/08/2024	0.025	0.33	mg/m <sup>3</sup>
		19-20/08/2024	0.031	0.33	mg/m <sup>3</sup>
		20-21/08/2024	0.033	0.33	mg/m <sup>3</sup>
		21-22/08/2024	0.050	0.33	mg/m <sup>3</sup>
		22-23/08/2024	0.047	0.33	mg/m <sup>3</sup>
		23-24/08/2024	0.059	0.33	mg/m <sup>3</sup>

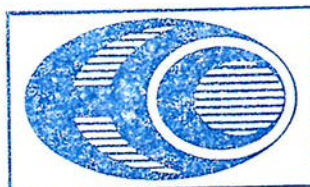
## REMARK:

<sup>1/</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

GPS 47P 0727526, 1444787



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

03/09/2024

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Request No. ATR6708048

Report No. 6708-0889 - 6708-0895

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA)1 Limited  
ADDRESS : 369/27 Moo.6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA)1 Limited  
SAMPLE NAME : บริเวณบ้านเขาหิน  
RECEIVED DATE : 27/08/2024 SAMPLE NO. : A67080889 - A67080895  
TESTED DATE : 27/08/2024-30/08/2024 REPORTED DATE : 03/09/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	17-18/08/2024	0.036	0.12	mg/m <sup>3</sup>
		18-19/08/2024	0.018	0.12	mg/m <sup>3</sup>
		19-20/08/2024	0.021	0.12	mg/m <sup>3</sup>
		20-21/08/2024	0.022	0.12	mg/m <sup>3</sup>
		21-22/08/2024	0.035	0.12	mg/m <sup>3</sup>
		22-23/08/2024	0.026	0.12	mg/m <sup>3</sup>
		23-24/08/2024	0.018	0.12	mg/m <sup>3</sup>

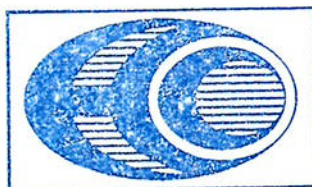
## REMARK:

<sup>1/</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

GPS 47P 0727526, 1444787



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 

(Miss Thanatporn Klinsoon)

03/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6711034

Report No. 6711-0630 - 6711-0636

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA)1 Limited  
ADDRESS : 369/27 Moo.6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA)1 Limited  
SAMPLE NAME : บริเวณบ้านเขาหิน  
RECEIVED DATE : 18/11/2024 SAMPLE NO. : A67110630 - A67110636  
TESTED DATE : 18/11/2024-20/11/2024 REPORTED DATE : 21/11/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	06-07/11/2024	0.045	0.33	mg/m <sup>3</sup>
		07-08/11/2024	0.047	0.33	mg/m <sup>3</sup>
		08-09/11/2024	0.048	0.33	mg/m <sup>3</sup>
		09-10/11/2024	0.058	0.33	mg/m <sup>3</sup>
		10-11/11/2024	0.065	0.33	mg/m <sup>3</sup>
		11-12/11/2024	0.061	0.33	mg/m <sup>3</sup>
		12-13/11/2024	0.058	0.33	mg/m <sup>3</sup>

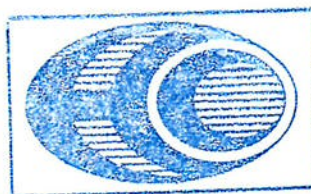
## REMARK:

<sup>1/</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Seksan Pluemwong)

GPS 47P 0727526, 1444787



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By .....

(Miss Thanatporn Klinsopon)

21/11/2024

COPY

Request No. ATR6711034

Report No. 6711-0623 - 6711-0629

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA)l Limited  
 ADDRESS : 369/27 Moo.6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA)l Limited  
 SAMPLE NAME : บริเวณบ้านเขาหิน  
 RECEIVED DATE : 18/11/2024 SAMPLE NO. : A67110623 - A67110629  
 TESTED DATE : 18/11/2024-20/11/2024 REPORTED DATE : 21/11/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	06-07/11/2024	0.019	0.12	mg/m <sup>3</sup>
		07-08/11/2024	0.011	0.12	mg/m <sup>3</sup>
		08-09/11/2024	0.014	0.12	mg/m <sup>3</sup>
		09-10/11/2024	0.034	0.12	mg/m <sup>3</sup>
		10-11/11/2024	0.034	0.12	mg/m <sup>3</sup>
		11-12/11/2024	0.035	0.12	mg/m <sup>3</sup>
		12-13/11/2024	0.035	0.12	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Seksan Plucmwong)

GPS 47P 0727526, 1444787



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By .....

(Miss Thanatporn Klinsoapon)

21/11/2024

COPY



Request No. LA67-R0875

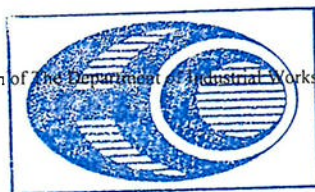
Report No. R6708-5556 - R6708-5562

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณบ้านเขาหิน<sup>4</sup>  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3137

SAMPLE NO. : 30952-30958  
SAMPLING DATE : 17-24/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME / DATE	17-18/08/2024	18-19/08/2024	19-20/08/2024	20-21/08/2024	21-22/08/2024	22-23/08/2024	23-24/08/2024	UNIT
10:00 - 11:00 <sup>3</sup>	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
11:00 - 12:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
12:00 - 13:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
13:00 - 14:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
14:00 - 15:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
15:00 - 16:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
16:00 - 17:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
17:00 - 18:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
18:00 - 19:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
19:00 - 20:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
20:00 - 21:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
21:00 - 22:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
22:00 - 23:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
23:00 - 00:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
00:00 - 01:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
01:00 - 02:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
02:00 - 03:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
03:00 - 04:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
04:00 - 05:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
05:00 - 06:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
06:00 - 07:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
07:00 - 08:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
08:00 - 09:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
09:00 - 10:00	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
Maximum 1 hr.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
Average 24 hr.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	0.30	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	0.12	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time<sup>4</sup> GPS 47P 0727526, 1444787\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA67-R0875

Report No. R6708-5563 - R6708-5569

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) I Limited

SAMPLE POINT : บริเวณบ้านเขาหิน<sup>1</sup>

PARAMETER\* : Nitrogen Dioxide

DETERMINATION METHOD : Chemiluminescence

INSTRUMENT : API Model T200 S/N 7866

SAMPLE NO. : 30959-30965

SAMPLING DATE : 17-24/08/2024

RECEIVED DATE : 24/08/2024

REPORTED DATE : 29/06/2024

TIME / DATE	17-18/08/2024	18-19/08/2024	19-20/08/2024	20-21/08/2024	21-22/08/2024	22-23/08/2024	23-24/08/2024	UNIT
10:00 - 11:00 <sup>2</sup>	0.008	0.008	0.005	0.006	0.008	0.007	0.008	ppm
11:00 - 12:00	0.010	0.006	0.005	0.006	0.010	0.006	0.009	ppm
12:00 - 13:00	0.010	0.007	0.005	0.007	0.009	0.006	0.008	ppm
13:00 - 14:00	0.014	0.009	0.005	0.007	0.008	0.009	0.011	ppm
14:00 - 15:00	0.017	0.009	0.006	0.006	0.010	0.009	0.013	ppm
15:00 - 16:00	0.010	0.006	0.008	0.007	0.010	0.009	0.015	ppm
16:00 - 17:00	0.008	0.006	0.007	0.012	0.007	0.014	0.020	ppm
17:00 - 18:00	0.013	0.007	0.006	0.012	0.007	0.017	0.026	ppm
18:00 - 19:00	0.012	0.009	0.008	0.009	0.006	0.015	0.023	ppm
19:00 - 20:00	0.014	0.013	0.009	0.010	0.007	0.016	0.021	ppm
20:00 - 21:00	0.012	0.012	0.010	0.012	0.008	0.017	0.019	ppm
21:00 - 22:00	0.012	0.012	0.010	0.012	0.011	0.017	0.018	ppm
22:00 - 23:00	0.011	0.011	0.010	0.012	0.014	0.015	0.016	ppm
23:00 - 00:00	0.010	0.009	0.009	0.011	0.015	0.013	0.015	ppm
00:00 - 01:00	0.008	0.007	0.009	0.008	0.014	0.011	0.014	ppm
01:00 - 02:00	0.007	0.003	0.009	0.008	0.013	0.009	0.013	ppm
02:00 - 03:00	0.008	0.003	0.008	0.007	0.013	0.009	0.012	ppm
03:00 - 04:00	0.007	0.002	0.004	0.006	0.013	0.008	0.012	ppm
04:00 - 05:00	0.006	0.004	0.004	0.005	0.012	0.008	0.011	ppm
05:00 - 06:00	0.006	0.005	0.006	0.006	0.012	0.008	0.010	ppm
06:00 - 07:00	0.006	0.005	0.008	0.007	0.013	0.008	0.011	ppm
07:00 - 08:00	0.009	0.006	0.009	0.009	0.016	0.013	0.016	ppm
08:00 - 09:00	0.014	0.012	0.011	0.011	0.020	0.016	0.022	ppm
09:00 - 10:00	0.010	0.007	0.012	0.007	0.013	0.011	0.016	ppm
Maximum 1 hr.	0.017	0.013	0.012	0.012	0.020	0.017	0.026	ppm
Average 24 hr.	0.010	0.007	0.008	0.008	0.011	0.011	0.015	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

**REMARK:** <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time<sup>3</sup> GPS 47P 0727526, 1444787\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

29/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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WITHOUT THE WRITTEN APPROVAL LABORATORY

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## Wind Speed &amp; Wind Direction

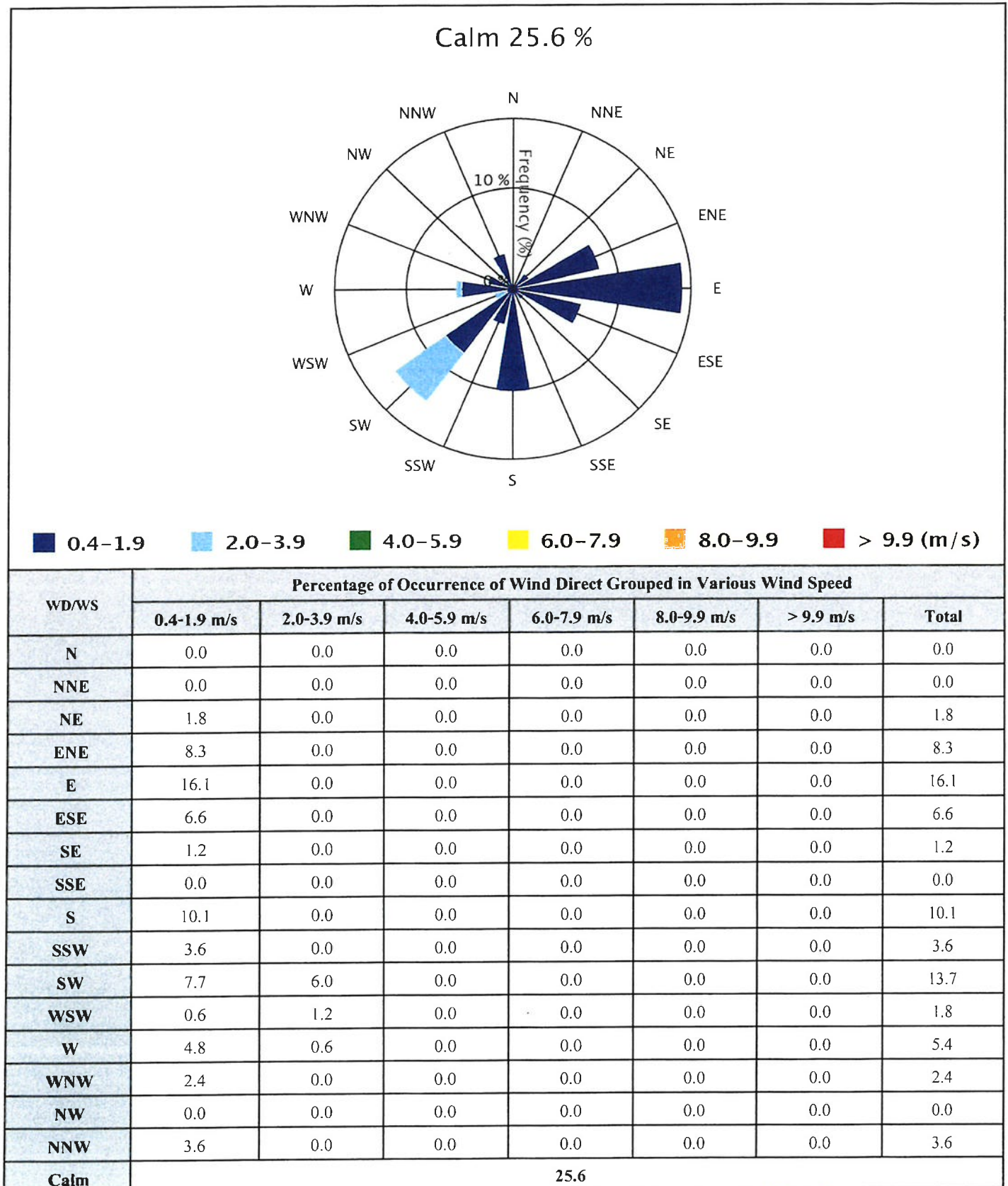
Request No. LA67-R0875

B.Grimm Power (WHA) 1 Limited

Sample No. 30980

Sampling Source : บริเวณบ้านเขาหิน (GPS 47P 0727526, 1444787)

Sampling Date : August 17-24, 2024



## Wind Speed &amp; Wind Direction

Request No. LA67-R0875

B.Grimm Power (WHA) 1 Limited

Sample No. 30980

Sampling Source : บริเวณบ้านเขาหิน (GPS 47P 0727526, 1444787)

Sampling Date : August 17-24, 2024

Time	August 17-18, 2024		August 18-19, 2024		August 19-20, 2024		August 20-21, 2024		August 21-22, 2024		August 22-23, 2024		August 23-24, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	E	0.4	ESE	1.8	SW	0.9	W	1.3	W	0.9	SW	2.2	SW
11:00-12:00	0.9	E	0.9	E	2.2	SW	1.3	WSW	1.3	WNW	0.9	SW	1.8	WNW
12:00-13:00	0.4	S	0.9	E	2.7	SW	1.8	SW	1.8	SW	1.8	SW	1.3	W
13:00-14:00	0.4	ESE	0.9	E	3.1	SW	2.2	SW	1.8	W	1.3	ENE	0.9	W
14:00-15:00	0.4	ESE	2.2	W	3.1	SW	2.2	WSW	1.8	WNW	0.4	NNW	1.3	E
15:00-16:00	1.3	ESE	1.8	W	2.7	SW	1.3	E	1.8	W	1.3	W	0.9	ENE
16:00-17:00	0.4	NNW	0.9	NNW	2.2	SW	0.4	SSW	1.8	SW	0.4	S	0.4	E
17:00-18:00	0.4	ESE	0.4	NE	1.3	S	0.9	SW	2.2	SW	0.4	SW	0.9	ESE
18:00-19:00	0.4	SE	0.4	NNW	0.9	SE	1.3	SW	2.2	SW	0.4	SSW	0.9	E
19:00-20:00	0.4	ESE	0.0	-	0.9	S	0.9	SSW	1.3	SW	0.0	-	1.3	ENE
20:00-21:00	0.4	ESE	0.4	S	0.4	S	0.4	S	0.4	SSW	0.4	E	0.9	E
21:00-22:00	0.0	-	0.4	S	0.4	E	0.4	S	0.0	-	0.4	E	0.4	ENE
22:00-23:00	0.4	E	0.4	S	0.4	ESE	0.0	-	0.4	ENE	0.4	SW	0.4	E
23:00-00:00	0.4	E	0.0	-	0.4	ESE	0.0	-	0.4	E	0.0	-	0.4	E
00:00-01:00	0.0	-	0.4	S	0.0	-	0.4	S	0.9	ENE	0.0	-	0.4	E
01:00-02:00	0.0	-	0.4	S	0.0	-	0.0	-	0.4	E	0.0	-	0.0	-
02:00-03:00	0.0	-	0.4	S	0.4	SSW	0.4	S	0.4	E	0.0	-	0.0	-
03:00-04:00	0.0	-	0.0	-	2.2	WSW	0.0	-	0.4	ENE	0.0	-	0.0	-
04:00-05:00	0.0	-	0.0	-	0.4	NNW	0.0	-	0.9	ENE	0.0	-	0.0	-
05:00-06:00	0.0	-	0.0	-	0.0	-	0.4	E	0.4	ENE	0.4	E	0.0	-
06:00-07:00	0.0	-	0.0	-	0.0	-	0.4	ENE	0.4	ENE	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-	0.4	ENE	0.0	-	0.4	E	0.0	-
08:00-09:00	0.9	E	0.4	S	0.4	NNW	0.4	NE	0.4	E	0.4	NE	0.4	ENE
09:00-10:00	0.9	E	0.9	S	0.9	ENE	0.4	WNW	0.9	SSW	0.9	SW	0.4	ESE

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Request No. LA67-R11128

Report No. R6711-4242 - R6711-4248

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
SAMPLE POINT : บริเวณบ้านเขาหิน<sup>4</sup>  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3139

SAMPLE NO. : 45154-45160  
SAMPLING DATE : 06-13/11/2024  
RECEIVED DATE : 13/11/2024  
REPORTED DATE : 19/11/2024

TIME / DATE	06-07/11/2024	07-08/11/2024	08-09/11/2024	09-10/11/2024	10-11/11/2024	11-12/11/2024	12-13/11/2024	UNIT
09:00 - 10:00 <sup>3</sup>	0.005	0.005	0.005	0.005	0.004	0.004	0.004	ppm
10:00 - 11:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
11:00 - 12:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
12:00 - 13:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
13:00 - 14:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
14:00 - 15:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
15:00 - 16:00	0.005	0.005	0.005	0.005	0.004	0.004	0.004	ppm
16:00 - 17:00	0.005	0.005	0.005	0.005	0.004	0.004	0.004	ppm
17:00 - 18:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
18:00 - 19:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
19:00 - 20:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
20:00 - 21:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
21:00 - 22:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
22:00 - 23:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
23:00 - 00:00	0.005	0.005	0.004	0.004	0.004	0.004	0.004	ppm
00:00 - 01:00	0.005	0.005	0.004	0.004	0.004	0.004	0.004	ppm
01:00 - 02:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
02:00 - 03:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
03:00 - 04:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
04:00 - 05:00	0.005	0.005	0.005	0.005	0.004	0.004	0.004	ppm
05:00 - 06:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
06:00 - 07:00	0.005	0.005	0.004	0.004	0.004	0.004	0.004	ppm
07:00 - 08:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
08:00 - 09:00	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
Maximum 1 hr.	0.005	0.005	0.005	0.005	0.004	0.004	0.004	ppm
Average 24 hr.	0.005	0.005	0.005	0.004	0.004	0.004	0.004	ppm
Standard (1 hr.) <sup>1/1</sup>	0.30	0.30	0.30	0.30	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>1/2</sup>	0.12	0.12	0.12	0.12	0.12	0.12	0.12	ppm

REMARK : <sup>1/1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)<sup>1/2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727526, 1444787\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Seksan Pluemwong)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

19/11/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

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## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate I, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) I Limited

SAMPLE POINT : บริเวณบ้านเขาหิน<sup>3</sup>

PARAMETER\* : Nitrogen Dioxide

DETERMINATION METHOD : Chemiluminescence

INSTRUMENT : API Model T200 S/N 7866

SAMPLE NO. : 45161-45167

SAMPLING DATE : 06-13/11/2024

RECEIVED DATE : 13/11/2024

REPORTED DATE : 19/11/2024

TIME / DATE	06-07/11/2024	07-08/11/2024	08-09/11/2024	09-10/11/2024	10-11/11/2024	11-12/11/2024	12-13/11/2024	UNIT
09:00 - 10:00 <sup>2</sup>	0.015	0.011	0.013	0.013	0.013	0.013	0.012	ppm
10:00 - 11:00	0.019	0.011	0.013	0.013	0.013	0.013	0.016	ppm
11:00 - 12:00	0.017	0.011	0.013	0.013	0.013	0.013	0.016	ppm
12:00 - 13:00	0.011	0.011	0.013	0.013	0.013	0.013	0.015	ppm
13:00 - 14:00	0.011	0.011	0.013	0.013	0.013	0.013	0.014	ppm
14:00 - 15:00	0.011	0.011	0.013	0.013	0.013	0.013	0.014	ppm
15:00 - 16:00	0.011	0.011	0.013	0.013	0.013	0.013	0.014	ppm
16:00 - 17:00	0.011	0.011	0.012	0.013	0.013	0.013	0.013	ppm
17:00 - 18:00	0.011	0.011	0.012	0.013	0.013	0.013	0.014	ppm
18:00 - 19:00	0.011	0.011	0.012	0.013	0.013	0.012	0.012	ppm
19:00 - 20:00	0.011	0.011	0.012	0.012	0.012	0.012	0.015	ppm
20:00 - 21:00	0.011	0.011	0.012	0.012	0.012	0.012	0.019	ppm
21:00 - 22:00	0.011	0.011	0.012	0.012	0.012	0.012	0.011	ppm
22:00 - 23:00	0.011	0.011	0.012	0.012	0.012	0.012	0.014	ppm
23:00 - 00:00	0.011	0.011	0.012	0.012	0.012	0.012	0.010	ppm
00:00 - 01:00	0.011	0.011	0.012	0.013	0.012	0.012	0.016	ppm
01:00 - 02:00	0.011	0.011	0.013	0.013	0.012	0.012	0.018	ppm
02:00 - 03:00	0.011	0.011	0.013	0.013	0.013	0.012	0.020	ppm
03:00 - 04:00	0.011	0.012	0.013	0.013	0.013	0.012	0.021	ppm
04:00 - 05:00	0.011	0.012	0.013	0.013	0.013	0.012	0.019	ppm
05:00 - 06:00	0.011	0.013	0.013	0.013	0.013	0.012	0.023	ppm
06:00 - 07:00	0.011	0.013	0.013	0.013	0.013	0.012	0.022	ppm
07:00 - 08:00	0.011	0.012	0.013	0.013	0.012	0.012	0.023	ppm
08:00 - 09:00	0.011	0.012	0.013	0.013	0.012	0.012	0.022	ppm
Maximum 1 hr.	0.019	0.013	0.013	0.013	0.013	0.013	0.023	ppm
Average 24 hr.	0.012	0.011	0.012	0.013	0.013	0.012	0.016	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time<sup>3</sup> GPS 47P 0727526, 1444787\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Seksan Pluemwong)

Approved By.....

(MS. THANATPORN KLINSOPON)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

19/11/2024

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## Wind Speed &amp; Wind Direction

Request No. LA67-R11128

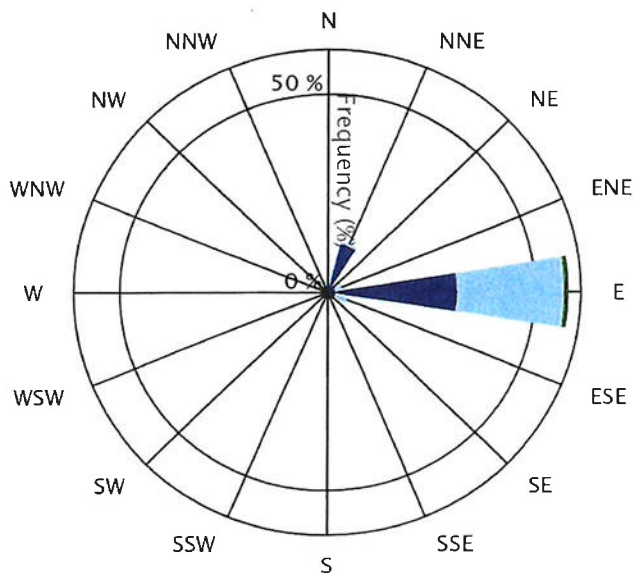
B.Grimm Power (WHA) 1 Limited

Sample No. 45168

Sampling Source : บริเวณบ้านเขาหิน (GPS 47P 0727526, 1444787)

Sampling Date : November 6-13, 2024

Calm 17.9 %



0.4-1.9
  2.0-3.9
  4.0-5.9
  6.0-7.9
  8.0-9.9
  > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	12.5	0.6	0.0	0.0	0.0	0.0	13.1
NE	2.4	0.0	0.0	0.0	0.0	0.0	2.4
ENE	1.8	1.8	0.0	0.0	0.0	0.0	3.6
E	31.0	26.2	1.2	0.0	0.0	0.0	58.4
ESE	1.8	3.0	0.0	0.0	0.0	0.0	4.8
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	49.4	31.6	1.2	0.0	0.0	0.0	

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## Wind Speed &amp; Wind Direction

Request No. LA67-R11128

B.Grimm Power (WHA) 1 Limited

Sample No. 45168

Sampling Source : บริเวณบ้านเขาหิน (GPS 47P 0727526, 1444787)

Sampling Date : November 6-13, 2024

Time	November 6-7, 2024		November 7-8, 2024		November 8-9, 2024		November 9-10, 2024		November 10-11, 2024		November 11-12, 2024		November 12-13, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.9	NNE	2.7	E	4.5	E	2.2	E	1.3	E	2.7	E	1.8	E
10:00-11:00	2.7	E	2.7	E	3.6	E	2.2	E	2.7	E	2.2	ENE	2.2	E
11:00-12:00	2.7	E	2.7	E	2.7	E	2.7	E	2.7	E	2.7	E	2.7	E
12:00-13:00	3.1	NNE	2.7	E	2.7	E	2.2	E	1.8	E	2.2	E	2.2	E
13:00-14:00	1.8	NNE	3.1	E	2.2	E	2.2	E	1.3	E	1.3	NNE	1.8	E
14:00-15:00	2.2	ENE	3.6	ESE	2.2	E	2.2	E	0.9	E	1.3	E	1.8	E
15:00-16:00	2.2	ENE	3.1	ESE	1.8	E	1.8	NNE	1.3	E	1.8	E	1.8	ENE
16:00-17:00	2.7	E	3.6	ESE	2.2	E	1.8	NNE	1.3	NNE	1.3	NNE	1.3	NNE
17:00-18:00	2.2	E	3.1	ESE	2.2	E	1.3	NE	1.3	NE	1.3	NNE	1.3	NNE
18:00-19:00	0.9	NNE	2.7	E	1.8	E	1.8	E	0.9	ENE	0.9	NNE	1.3	E
19:00-20:00	0.4	NNE	0.9	E	1.3	E	0.4	NE	1.3	E	0.4	NNE	0.4	NNE
20:00-21:00	0.0	-	0.9	E	1.3	E	0.0	-	0.9	ESE	0.4	ESE	0.0	-
21:00-22:00	0.0	-	0.9	E	1.3	E	0.4	E	0.4	E	0.4	ESE	0.4	NNE
22:00-23:00	0.4	NNE	1.3	E	0.9	E	0.9	E	0.0	-	0.0	-	0.4	NNE
23:00-00:00	0.4	NE	1.3	E	0.4	E	0.4	E	0.0	-	0.0	-	0.4	NNE
00:00-01:00	2.2	E	0.9	E	1.8	E	0.4	E	0.0	-	0.0	-	0.4	NNE
01:00-02:00	3.1	ESE	1.3	E	0.9	E	0.9	E	0.0	-	0.0	-	0.0	-
02:00-03:00	2.2	E	2.2	E	1.3	E	0.4	E	0.0	-	0.0	-	0.4	NNE
03:00-04:00	1.8	E	1.8	E	1.8	ENE	0.4	E	0.0	-	0.0	-	0.0	-
04:00-05:00	2.2	E	1.8	E	2.2	E	0.0	-	0.4	E	0.0	-	0.0	-
05:00-06:00	0.9	E	2.7	E	2.7	E	0.0	-	0.4	E	0.4	E	0.0	-
06:00-07:00	2.2	E	2.7	E	1.3	E	0.0	-	1.3	E	0.4	E	0.0	-
07:00-08:00	2.2	E	2.2	E	1.8	E	0.0	-	0.9	E	0.0	-	0.0	-
08:00-09:00	2.2	E	4.0	E	2.7	E	0.0	-	1.3	E	1.3	E	0.0	-

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## Test Report

Request No : W6707205

Report No : 6707-1160

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67070678

Sample Name : Inspection Pit (Retention)

Sampling Date : 08/07/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 09/07/2024

Tested Date : 09/07/2024 - 16/07/2024

Reported Date : 18/07/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	57	≤750
Color(Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color(pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	< 0.05	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

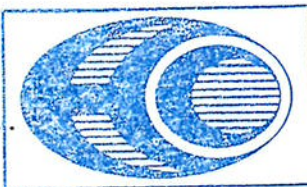
3. Sampling By Mr. Songpon Phiwan (1-003-ค-0016)

Examined By : .....

(Miss Apiradee Chuen-arom)

(1-003-ค-0007)

18/07/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(1-003-ค-0005)

18/07/2024

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## Test Report

Request No : W6707205

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Report No : 6707-1160

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67070678

Sample Name : Inspection Pit (Retension)

Sampling Date : 08/07/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 09/07/2024

Tested Date : 09/07/2024 - 16/07/2024

Reported Date : 18/07/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	7.5	5.5-9.0
pH (on site)		Electrometric Method	7.6	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,872	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

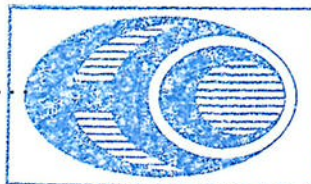
3. Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)

Examined By : 

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

18/07/2024

Approved By : 

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

18/07/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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## Test Report

Request No : W6707205

Report No : 6707-1160

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67070678

Sample Name : Inspection Pit (Retension)

Sampling Date : 08/07/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 09/07/2024

Tested Date : 09/07/2024 - 16/07/2024

Reported Date : 18/07/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Flow Rate	m3/Sec.	Calculation	0.017	-

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

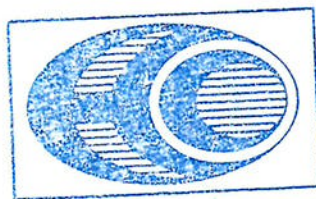
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Parameter Outside The Scope of The Registration of Department of Industrial Works

4. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By : .....

(Miss Apiradee Chuen-arom)  
18/07/2024

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## Test Report

Request No : W6708339

Report No : 6708-1450

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67081036

Sample Name : Inspection Pit (Retention)

Sampling Date : 13/08/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 14/08/2024

Tested Date : 14/08/2024 - 21/08/2024

Reported Date : 23/08/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.4	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	63	≤750
Color (Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	0.08	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

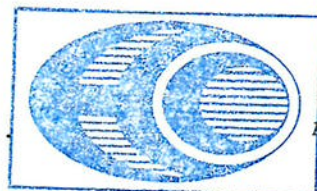
2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(ว-003-ค-0007)  
23/08/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(ว-003-ค-0005)  
23/08/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6708339

Report No : 6708-1450

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67081036

Sample Name : Inspection Pit (Retention)

Sampling Date : 13/08/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 14/08/2024

Tested Date : 14/08/2024 - 21/08/2024

Reported Date : 23/08/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	8.0	5.5-9.0
pH (on site)		Electrometric Method	7.9	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,896	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	8	≤200

Physical Apperance : 1. Sample : ycllowish, lightly SS, nonsmelling

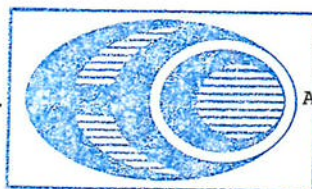
2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-0017)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(ว-003-ก-0007)  
23/08/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(ว-003-ก-0005)  
23/08/2024

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## Test Report

Request No : W6708339

Report No : 6708-1450

Customer : บริษัท บี.กริม เพาเวอร์ (ด้าบบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมด้าบบลิวเอชเอ ชลบุรี 1 ค.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ด้าบบลิวเอชเอ) จำกัด

Sample No : W 67081036

Sample Name : Inspection Pit (Retention)

Sampling Date : 13/08/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 14/08/2024

Tested Date : 14/08/2024 - 21/08/2024

Reported Date : 23/08/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Flow Rate	m3/Sec	Calculation	0.017	-

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Parameter Outside The Scope of The Registration of Department of Industrial Works

4. Sampling By Mr. Parkpoom Buasawad



Examined By : .....

(Miss Apiradee Chuen-arom)

23/08/2024

บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด  
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## Test Report

Request No : W6709226

Report No : 6709-1627

Customer : บริษัท บี.กริม เพาเวอร์ (คืบบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมคืบบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (คืบบลิวเอชเอ) จำกัด

Sample No : W 67090834

Sample Name : Inspection Pit (Retention)

Sampling Date : 09/09/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 10/09/2024

Tested Date : 10/09/2024 - 18/09/2024

Reported Date : 25/09/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.4	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	63	≤750
Color (Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	0.18	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : green, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(ว-003-ค-0007)  
25/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(ว-003-ค-0005)  
25/09/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6709226

Report No : 6709-1627

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67090834

Sample Name : Inspection Pit (Retention)

Sampling Date : 09/09/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 10/09/2024

Tested Date : 10/09/2024 - 18/09/2024

Reported Date : 25/09/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	8.1	5.5-9.0
pH (on site)		Electrometric Method	7.8	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,924	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	8	≤200

Physical Apperance : 1. Sample : green, lightly SS, nonsmelling

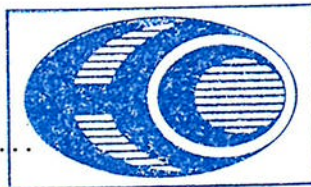
2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(ว-003-ค-0007)  
25/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(ว-003-ค-0005)  
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## Test Report

Request No : W6709226

Report No : 6709-1627

Customer : บริษัท บี.กริม เพาเวอร์ (ด้าบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมด้าบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ด้าบลิวเอชเอ) จำกัด

Sample No : W 67090834

Sample Name : Inspection Pit (Retention)

Sampling Date : 09/09/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 10/09/2024

Tested Date : 10/09/2024 - 18/09/2024

Reported Date : 25/09/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Flow Rate	m3/Sec	Calculation	0.017	-

Physical Apperance : 1. Sample : green, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Parameter Outside The Scope of The Registration of Department of Industrial Works

4. Sampling By Miss Pornpinan Viriyakusolkul



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

25/09/2024

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## Test Report

Request No : W6710217

Report No : 6710-1256

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67100750

Sample Name : Inspection Pit (Retention)

Sampling Date : 07/10/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 08/10/2024

Tested Date : 08/10/2024 - 18/10/2024

Reported Date : 21/10/2024

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.3	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	60	≤750
Color (Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	28	≤600
Color (pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	22	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	0.19	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Apperance : 1. Sample : green, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

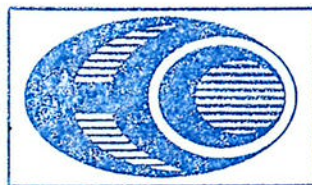
3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ท-0036)

Examined By : .....

(Miss Apiradee Chuen-arom)

(ว-003-ท-0007)

21/10/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ท-0005)

21/10/2024

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## Test Report

Request No : W6710217

Report No : 6710-1256

Customer : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67100750

Sample Name : Inspection Pit (Retention)

Sampling Date : 07/10/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 08/10/2024

Tested Date : 08/10/2024 - 18/10/2024

Reported Date : 21/10/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	8.1	5.5-9.0
pH (on site)		Electrometric Method	7.9	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,864	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	6	≤200

Physical Apperance : 1. Sample : grcen, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

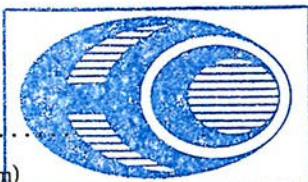
3. Sampling By Miss Pompinan Viriyakusolkul (ว-003-ก-0036)

Examined By : .....

(Miss Apiradee Chuen-arom)

(ว-003-ก-0007)

21/10/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-0005)

21/10/2024

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## Test Report

Request No : W6710217

Report No : 6710-1256

Customer : บริษัท บี.กริม เพาเวอร์ (คืบลิเวอเรจ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมคืบลิเวอเรจ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (คืบลิเวอเรจ) จำกัด

Sample No : W 67100750

Sample Name : Inspection Pit (Retention)

Sampling Date : 07/10/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 08/10/2024

Tested Date : 08/10/2024 - 18/10/2024

Reported Date : 21/10/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Flow Rate	m <sup>3</sup> /Sec	Calculation Method	0.017	-

Physical Apperance : 1. Sample : grcen, lightly SS, nonsmelling

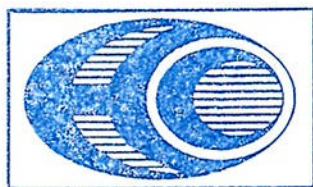
2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Parameter Outside The Scope of The Registration of Department of Industrial Works

4. Sampling By Miss Pornpinan Viriyakusolkul



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Examined By : .....

(Miss Apiradee Chuen-arom)

21/10/2024

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## Test Report

Request No : W6711308

Report No : 6711-1374

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67110958

Sample Name : Inspection Pit (Retention)

Sampling Date : 11/11/2024

Sampling By : ETC

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 12/11/2024

Tested Date : 11/11/2024 - 21/11/2024

Reported Date : 22/11/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Color (Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	32	≤600
Color (pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	32	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	0.14	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : yellow, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Supharerk Phatklang (จ-003-ท-0031)

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ท-0007)

22/11/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

22/11/2024

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## Test Report

Request No : W6711308

Report No : 6711-1374

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67110958

Sample Name : Inspection Pit (Retention)

Sampling Date : 11/11/2024

Sampling By : ETC

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 12/11/2024

Tested Date : 11/11/2024 - 21/11/2024

Reported Date : 22/11/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	7.4	5.5-9.0
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	28	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,072	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	6	≤200

Physical Apperance : 1. Sample : ycllow, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

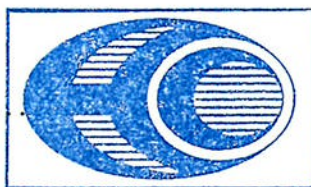
3. Sampling By Mr. Supharerk Phatklang (จ-003-ท-0031)

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ท-0007)

22/11/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

22/11/2024

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## Test Report

Request No : W6711308

Report No : 6711-1374

Customer : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67110958

Sample Name : Inspection Pit (Retention)

Sampling Date : 11/11/2024

Sampling By : ETC

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 12/11/2024

Tested Date : 11/11/2024 - 21/11/2024

Reported Date : 22/11/2024

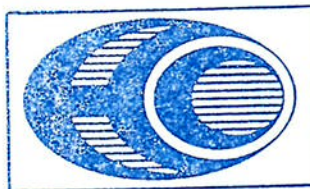
Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Flow Rate (per Sec)	m <sup>3</sup> /Sec	Calculation	0.017	-

Physical Apperance : 1. Sample : yellow, lightly SS, nonsmelling

2. Container : Normal [ PE 0.5 L, PE 1.0 L [ 2 Bottle], PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

- SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.
- Parameter Outside The Scope of The Registration of Department of Industrial Works
- Sampling By Mr. Supharerk Phatklang



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)  
22/11/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6712241

Report No : 6712-1793

Customer : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท พี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67120760

Sample Name : Inspection Pit (Retension)

Sampling Date : 09/12/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/12/2024

Tested Date : 10/12/2024 - 19/12/2024

Reported Date : 25/12/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.1	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	96	≤750
Color (Original)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0)	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Free Chlorine	mg/L	DPD Colorimetric Method (SM:4500-Cl G)	0.12	≤1
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

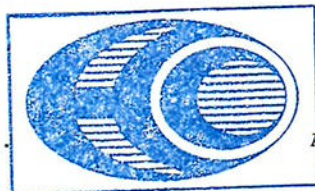
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, PE 2.0 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(ว-003-ค-0007)  
25/12/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(ว-003-ค-0005)  
25/12/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6712241

Report No : 6712-1793

Customer : บริษัท บี.กริม เพาเวอร์ (ด้าบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมด้าบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ด้าบลิวเอชเอ) จำกัด

Sample No : W 67120760

Sample Name : Inspection Pit (Retension)

Sampling Date : 09/12/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/12/2024

Tested Date : 10/12/2024 - 19/12/2024

Reported Date : 25/12/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (at 25 degree celsius)		Electrometric Method (SM:4500 -H +B)	7.4	5.5-9.0
pH (on site)		Electrometric Method	7.6	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	26	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,168	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	<5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

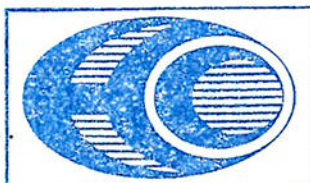
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, PE 2.0 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Supharerk Phatklang (จ-003-ค-0031)

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ค-0007)  
25/12/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(จ-003-ค-0005)  
25/12/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6712241

Report No : 6712-1793

Customer : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Address : 369/27 หมู่ 6 นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1 ต.บ่อวิน อ.ศรีราชา จ.ชลบุรี 20230

Sampling Source : บริษัท บี.กริม เพาเวอร์ (ดับบลิวเอชเอ) จำกัด

Sample No : W 67120760

Sample Name : Inspection Pit (Retention)

Sampling Date : 09/12/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/12/2024

Tested Date : 10/12/2024 - 19/12/2024

Reported Date : 25/12/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Flow Rate	m <sup>3</sup> /Sec	Calculation Method	0.017	-

Physical Apperance : 1. Sample : yellowish, lightly SS, nonsmelling

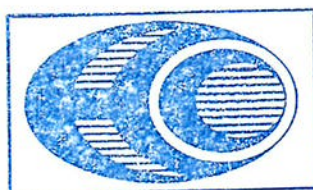
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, PE 2.0 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 029 / 2567 (2024)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Parameter Outside The Scope of The Registration of Department of Industrial Works

4. Sampling By Mr. Supharerk Phatklang



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

25/12/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
**No.0042**  
**Lot ID: 2471237**  
Date Received : Jul 11, 2024  
Date Reported : Jul 16, 2024  
Report Number : 3034171-1

Page 1 of 2

**Sample Number** 2471237-1  
**Sampled Date** Jul 11, 2024 2:50 PM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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 G	Rayong
COD	mg/L	1.5	25	40	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	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 (on site) *		-	-	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	-	-	30.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Technical Management

*Chontichak*

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ 7-323-จ-9449

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ 7-323-ค-9442

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location:** WHA CIE 1

**TESTING**

**No.0042**

**Lot ID: 2471237**

**Date Received :** Jul 11, 2024

**Date Reported :** Jul 16, 2024

**Report Number :** 3034171-1

Page 2 of 2

Sample Number	2471237-1						
Sampled Date	Jul 11, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Jul 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Colorless, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1250	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.3	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤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.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk ทะเบียนเลขที่ ว-323-จ-0021

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

**Technical Management**

*Chontichak*

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited

331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location:** WHA CIE 1

**Lot ID: 2471237**

Date Received : Jul 11, 2024

Date Reported : Jul 16, 2024

Report Number : 3034171-2

Page 1 of 1

**Sample Number** 2471237-1  
**Sampled Date** Jul 11, 2024 2:50 PM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Jul 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Flow rate	m <sup>3</sup> /s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odourless	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk

**Remark :**

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

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Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
**No.0042**  
**Lot ID: 2484945**  
**Date Received :** Aug 09, 2024  
**Date Reported :** Aug 16, 2024  
**Report Number :** 3065237-1

Page 1 of 2

Sample Number	2484945-1						
Sampled Date	Aug 09, 2024 10:03 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
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 G	Rayong
COD	mg/L	1.5	25	54	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	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 (on site) *		-	-	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	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Technical Management

*Chontichak*

Chonticha Subongkoch  
Scientist (3)  
ทะเบียนเลขที่ ๖-323-๖-9449

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location :** WHA CIE 1

**TESTING**

**No.0042**

**Lot ID: 2484945**

**Date Received :** Aug 09, 2024

**Date Reported :** Aug 16, 2024

**Report Number :** 3065237-1

Page 2 of 2

**Sample Number** 2484945-1  
**Sampled Date** Aug 09, 2024 10:03 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Aug 09, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2110	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤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.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk ทะเบียนเลขที่ ๖-323-๖-0021

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

**Technical Management**

*Chontichak*

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ๖-323-๖-9449

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**Lot ID: 2484945**

Date Received : Aug 09, 2024  
Date Reported : Aug 16, 2024  
Report Number : 3065237-2

Page 1 of 1

Sample Number	2484945-1						
Sampled Date	Aug 09, 2024 10:03 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odourless	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk

Remark :

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

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Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
**No.0042**  
**Lot ID: 2497750**  
**Date Received :** Sep 11, 2024  
**Date Reported :** Sep 17, 2024  
**Report Number :** 3093379-1

Page 1 of 2

**Sample Number** 2497750-1  
**Sampled Date** Sep 11, 2024 11:04 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Sep 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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 G	Rayong
COD	mg/L	1.5	25	41	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	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 (on site) *		-	-	6.7	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	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Technical Management

**Photchana S.**

Photchana Seeda  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

**D. Chumnu.**

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

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331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location:** WHA CIE 1

TESTING

No.0042

**Lot ID: 2497750**

Date Received : Sep 11, 2024

Date Reported : Sep 17, 2024

Report Number : 3093379-1

Page 2 of 2

**Sample Number** 2497750-1  
**Sampled Date** Sep 11, 2024 11:04 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Sep 11, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1680	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	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.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011

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

Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

**D. Chumson.**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

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331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location :** WHA CIE 1

**Lot ID: 2497750**

Date Received : Sep 11, 2024  
Date Reported : Sep 17, 2024  
Report Number : 3093379-2

Page 1 of 1

Sample Number	2497750-1						
Sampled Date	Sep 11, 2024 11:04 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odourless	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Surawit Narapong

Remark :

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

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Approved by

**Photchana S.**

Photchana Seeda  
Scientist (4)

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location :** WHA CIE 1

**TESTING**

**No.0042**

**Lot ID: 24111665**

**Date Received :** Oct 10, 2024

**Date Reported :** Oct 16, 2024

**Report Number :** 3122430-1

Page 1 of 2

**Sample Number** 24111665-1  
**Sampled Date** Oct 10, 2024 10:12 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Oct 10, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	42	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

**Technical Management**

*Chontichak*

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-0031

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

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Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
**No.0042**  
**Lot ID: 24111665**  
**Date Received :** Oct 10, 2024  
**Date Reported :** Oct 16, 2024  
**Report Number :** 3122430-1

Page 2 of 2

Sample Number	24111665-1						
Sampled Date	Oct 10, 2024 10:12 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2060	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk ทะเบียนเลขที่ ว-323-จ-0021

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Chontichak*

Chonticha Subongkoch  
Scientist (3)  
ทะเบียนเลขที่ ว-323-จ-0031

**Approved by**

*D. Chonchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

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331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location:** WHA CIE 1

**Lot ID: 24111665**

Date Received : Oct 10, 2024

Date Reported : Oct 16, 2024

Report Number : 3122430-2

Page 1 of 1

Sample Number	24111665-1						
Sampled Date	Oct 10, 2024 10:12 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odourless	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk

Remark :

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

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Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location:** WHA CIE 1

TESTING

No.0042

**Lot ID: 24124512**

Date Received : Nov 13, 2024

Date Reported : Nov 18, 2024

Report Number : 3150913-1

Page 1 of 2

Sample Number	24124512-1				
Sampled Date	Nov 13, 2024 9:49 AM				
Sample Description	Wastewater				
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.
Location	Process				
Date Analysis Commenced	Nov 13, 2024				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)				
Physical Property	Yellow, some odour, solid and no turbid				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	38	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	10	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Technical Management

*Chontichak*

Chonticha Subongkoch

Scientist (3)

ทะเบียนเลขที่ ว-323-จ-0031

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

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331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
No.0042  
**Lot ID: 24124512**  
Date Received : Nov 13, 2024  
Date Reported : Nov 18, 2024  
Report Number : 3150913-1

Page 2 of 2

**Sample Number** 24124512-1  
**Sampled Date** Nov 13, 2024 9:49 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Nov 13, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Physical Property** Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1144	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk ทะเบียนเลขที่ ว-323-จ-0021

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

**Technical Management**

*Chontichak*

Chonticha Subongkoch  
Scientist (3)

ทะเบียนเลขที่ ว-323-จ-0031

**Approved by**

*D. Chamon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location :** WHA CIE 1

**Lot ID: 24124512**

Date Received : Nov 13, 2024

Date Reported : Nov 18, 2024

Report Number : 3150913-2

Page 1 of 1

**Sample Number** 24124512-1  
**Sampled Date** Nov 13, 2024 9:49 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Nov 13, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Physical Property** Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Flow rate	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odourless	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk

Remark :

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

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Approved by

Chontichak

Chonticha Subongkoch

Scientist (3)

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230

**P/O :**

**Project Name :** Factory I Monthly

**Project Location :** WHA CIE 1

**TESTING**

**No.0042**

**Lot ID: 24134072**

**Date Received :** Dec 09, 2024

**Date Reported :** Dec 14, 2024

**Report Number :** 3177389-1

Page 1 of 2

Sample Number	24134072-1						
Sampled Date	Dec 09, 2024 9:32 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.6	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	27.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

**Technical Management**

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

**Approved by**

**D. Chumon.**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**TESTING**  
**No.0042**  
**Lot ID: 24134072**  
**Date Received :** Dec 09, 2024  
**Date Reported :** Dec 14, 2024  
**Report Number :** 3177389-1

Page 2 of 2

Sample Number	24134072-1						
Sampled Date	Dec 09, 2024 9:32 AM						
Sample Description	Wastewater						
Contract ID	L_CIE_003_2559	Plot	A	Site	B. Grimm Power (WHA) 1 Limited.		
Location	Process						
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1176	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk ทะเบียนเลขที่ ว-323-จ-0021

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

**Technical Management**

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

**Approved by**

**D. Johnson.**

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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## Analysis / Test Report

**Client :** WHA Utilities and Power Public Company Limited  
331/8-9 Moo 6, High Way No.331 Road, Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20230  
**P/O :**  
**Project Name :** Factory I Monthly  
**Project Location:** WHA CIE 1

**Lot ID: 24134072**

Date Received : Dec 09, 2024  
Date Reported : Dec 13, 2024  
Report Number : 3177389-2

Page 1 of 1

**Sample Number** 24134072-1  
**Sampled Date** Dec 09, 2024 9:32 AM  
**Sample Description** Wastewater  
**Contract ID** L\_CIE\_003\_2559 **Plot** A **Site** B. Grimm Power (WHA) 1 Limited.  
**Location** Process  
**Date Analysis Commenced** Dec 09, 2024  
**Condition of Sample** Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)  
**Physical Property** Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Flow rate	m3/s	-	-	0.017	No Standard	Flow meter	Rayong
Odour		-	-	Odour	No Standard	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

**Sampling By :** Suphanat Sakulk

Remark :

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

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Chontichak

Chonticha Subongkoch  
Scientist (3)

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Request No. LA67-R0875

Report No. R6708-5570

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301638 : Class 2

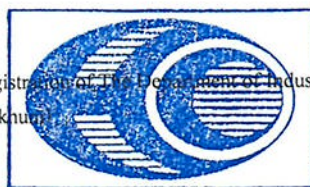
SAMPLE NO. : 30966  
MEASURING DATE : 17-18/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME \ DATE	17-18/08/2024 ( $L_{eq}$ )	17-18/08/2024 ( $L_{max}$ )	17-18/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	51.3	74.4	45.1	dB(A)
10:00 - 11:00	51.5	70.2	45.5	dB(A)
11:00 - 12:00	51.6	73.1	45.7	dB(A)
12:00 - 13:00	50.5	67.1	45.4	dB(A)
13:00 - 14:00	49.3	64.0	45.6	dB(A)
14:00 - 15:00	65.8	72.5	64.4	dB(A)
15:00 - 16:00	64.6	70.0	64.1	dB(A)
16:00 - 17:00	57.0	69.4	55.8	dB(A)
17:00 - 18:00	58.0	79.1	52.9	dB(A)
18:00 - 19:00	57.2	76.2	51.6	dB(A)
19:00 - 20:00	56.2	75.4	51.3	dB(A)
20:00 - 21:00	54.3	73.7	50.8	dB(A)
21:00 - 22:00	53.7	82.4	46.8	dB(A)
22:00 - 23:00	51.5	74.1	46.1	dB(A)
23:00 - 00:00	48.8	66.2	46.4	dB(A)
00:00 - 01:00	48.6	67.7	45.8	dB(A)
01:00 - 02:00	48.4	69.1	46.1	dB(A)
02:00 - 03:00	48.7	71.9	45.6	dB(A)
03:00 - 04:00	48.4	68.3	45.9	dB(A)
04:00 - 05:00	48.0	68.0	46.1	dB(A)
05:00 - 06:00	52.1	73.0	47.4	dB(A)
06:00 - 07:00	53.4	78.9	48.2	dB(A)
07:00 - 08:00	53.8	77.1	46.4	dB(A)
08:00 - 09:00	53.3	71.2	45.9	dB(A)
$L_{eq}$ 24 hr.	56.7	-	-	dB(A)
$L_{dn}$	59.2	-	-	dB(A)
Maximum	-	82.4	-	dB(A)
Standard	70 <sup>1/1,2</sup>	115 <sup>1/1,2</sup>	-	dB(A)

REMARK : <sup>1/</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>2/</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>3/</sup> Start Time<sup>4/</sup> GPS 47P 0727070, 1445185

\* Parameter Outside The Scope of The Registration of The Environment of Industrial Works.

(Measurement By Mr. Tummarut Photankhuan)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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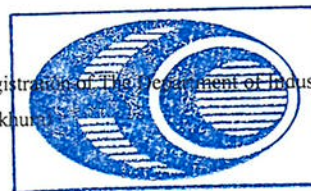
Request No. LA67-R0875

Report No. R6708-5571

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 30967  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 18-19/08/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 24/08/2024  
 S/N G301638 : Class 2 REPORTED DATE : 02/09/2024

TIME \ DATE	18-19/08/2024 ( $L_{eq}$ )	18-19/08/2024 ( $L_{max}$ )	18-19/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	49.9	71.1	44.7	dB(A)
10:00 - 11:00	54.9	84.3	43.7	dB(A)
11:00 - 12:00	53.3	74.6	44.2	dB(A)
12:00 - 13:00	54.0	83.4	43.9	dB(A)
13:00 - 14:00	63.7	90.9	59.6	dB(A)
14:00 - 15:00	64.5	69.5	63.6	dB(A)
15:00 - 16:00	56.0	71.1	54.6	dB(A)
16:00 - 17:00	53.9	68.9	50.0	dB(A)
17:00 - 18:00	55.2	71.5	49.0	dB(A)
18:00 - 19:00	55.4	77.8	49.5	dB(A)
19:00 - 20:00	56.5	72.2	51.4	dB(A)
20:00 - 21:00	53.0	73.7	48.2	dB(A)
21:00 - 22:00	56.6	86.2	48.9	dB(A)
22:00 - 23:00	51.8	63.4	50.1	dB(A)
23:00 - 00:00	54.8	62.1	49.9	dB(A)
00:00 - 01:00	57.7	66.1	50.1	dB(A)
01:00 - 02:00	56.8	67.3	50.0	dB(A)
02:00 - 03:00	53.1	77.9	49.7	dB(A)
03:00 - 04:00	48.1	69.2	45.3	dB(A)
04:00 - 05:00	46.4	65.4	44.6	dB(A)
05:00 - 06:00	50.3	64.2	46.7	dB(A)
06:00 - 07:00	54.8	82.2	48.9	dB(A)
07:00 - 08:00	56.8	78.4	48.4	dB(A)
08:00 - 09:00	55.1	79.3	46.3	dB(A)
$L_{eq}$ 24 hr.	56.8	-	-	dB(A)
$L_{dn}$	61.2	-	-	dB(A)
Maximum	-	90.9	-	dB(A)
Standard	70 <sup>1/1, 1/2</sup>	115 <sup>1/1, 1/2</sup>	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Measurement By Mr. Tummarut Photankhuan)

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5572

## TEST REPORT

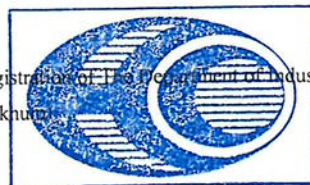
CUSTOMER : B.Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 30968  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 19-20/08/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 24/08/2024  
 S/N G301638 : Class 2 REPORTED DATE : 02/09/2024

TIME \ DATE	19-20/08/2024 ( $L_{eq}$ )	19-20/08/2024 ( $L_{max}$ )	19-20/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/1</sup>	50.4	68.8	45.8	dB(A)
10:00 - 11:00	49.5	70.7	44.8	dB(A)
11:00 - 12:00	50.7	71.2	45.1	dB(A)
12:00 - 13:00	53.8	78.8	44.6	dB(A)
13:00 - 14:00	49.4	63.7	45.1	dB(A)
14:00 - 15:00	48.8	64.0	43.9	dB(A)
15:00 - 16:00	51.5	76.2	44.6	dB(A)
16:00 - 17:00	51.5	70.2	45.4	dB(A)
17:00 - 18:00	54.8	74.6	47.7	dB(A)
18:00 - 19:00	55.9	81.2	48.4	dB(A)
19:00 - 20:00	54.2	75.1	47.2	dB(A)
20:00 - 21:00	53.3	70.3	47.5	dB(A)
21:00 - 22:00	50.5	68.2	46.8	dB(A)
22:00 - 23:00	49.4	68.7	45.2	dB(A)
23:00 - 00:00	47.5	66.8	44.9	dB(A)
00:00 - 01:00	46.2	59.3	44.2	dB(A)
01:00 - 02:00	47.9	67.0	43.8	dB(A)
02:00 - 03:00	47.0	63.7	44.4	dB(A)
03:00 - 04:00	46.3	69.3	43.6	dB(A)
04:00 - 05:00	47.2	67.7	45.0	dB(A)
05:00 - 06:00	50.5	64.0	47.5	dB(A)
06:00 - 07:00	51.8	68.2	47.7	dB(A)
07:00 - 08:00	56.2	75.7	46.9	dB(A)
08:00 - 09:00	56.9	84.1	48.8	dB(A)
$L_{eq}$ 24 hr.	52.0	-	-	dB(A)
$L_{dn}$	56.1	-	-	dB(A)
Maximum	-	84.1	-	dB(A)
Standard	70 <sup>1/1, 1/2</sup>	115 <sup>1/1, 1/2</sup>	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of The Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5573

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 30969  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 20-21/08/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 24/08/2024  
 S/N G301638 : Class 2 REPORTED DATE : 02/09/2024

TIME \ DATE	20-21/08/2024 ( $L_{eq}$ )	20-21/08/2024 ( $L_{max}$ )	20-21/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	51.9	72.2	47.0	dB(A)
10:00 - 11:00	49.0	70.3	44.1	dB(A)
11:00 - 12:00	52.7	74.4	44.3	dB(A)
12:00 - 13:00	51.2	74.3	44.2	dB(A)
13:00 - 14:00	52.2	75.9	44.9	dB(A)
14:00 - 15:00	53.6	75.5	48.0	dB(A)
15:00 - 16:00	53.2	73.7	46.4	dB(A)
16:00 - 17:00	51.9	72.5	45.5	dB(A)
17:00 - 18:00	58.0	86.9	46.8	dB(A)
18:00 - 19:00	53.4	68.8	47.6	dB(A)
19:00 - 20:00	53.1	73.9	46.5	dB(A)
20:00 - 21:00	54.1	71.9	48.4	dB(A)
21:00 - 22:00	58.0	70.8	49.3	dB(A)
22:00 - 23:00	53.2	70.6	49.3	dB(A)
23:00 - 00:00	51.6	75.1	49.1	dB(A)
00:00 - 01:00	49.6	64.8	48.8	dB(A)
01:00 - 02:00	49.0	61.7	48.5	dB(A)
02:00 - 03:00	48.8	57.3	48.4	dB(A)
03:00 - 04:00	43.7	60.0	42.2	dB(A)
04:00 - 05:00	43.4	63.4	41.4	dB(A)
05:00 - 06:00	48.7	70.1	43.7	dB(A)
06:00 - 07:00	51.9	76.3	45.8	dB(A)
07:00 - 08:00	55.9	79.5	46.8	dB(A)
08:00 - 09:00	53.8	70.9	46.7	dB(A)
$L_{eq}$ 24 hr.	53.0	-	-	dB(A)
$L_{dn}$	57.2	-	-	dB(A)
Maximum	-	86.9	-	dB(A)
Standard	70 <sup>1/1, 1/2</sup>	115 <sup>1/1, 1/2</sup>	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By. 

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5574

## TEST REPORT

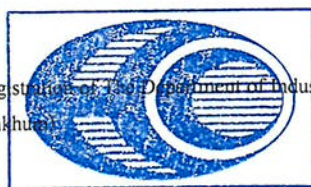
CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 30970  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 21-22/08/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 24/08/2024  
S/N G301638 : Class 2 REPORTED DATE : 02/09/2024

TIME \ DATE	21-22/08/2024 ( $L_{eq}$ )	21-22/08/2024 ( $L_{max}$ )	21-22/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	52.4	73.7	45.7	dB(A)
10:00 - 11:00	50.2	70.3	43.9	dB(A)
11:00 - 12:00	49.5	70.7	44.1	dB(A)
12:00 - 13:00	51.0	70.5	43.9	dB(A)
13:00 - 14:00	49.0	65.9	44.7	dB(A)
14:00 - 15:00	52.0	69.9	46.7	dB(A)
15:00 - 16:00	53.6	69.4	51.1	dB(A)
16:00 - 17:00	51.4	70.3	44.2	dB(A)
17:00 - 18:00	53.9	74.6	46.0	dB(A)
18:00 - 19:00	54.4	81.9	46.1	dB(A)
19:00 - 20:00	52.9	72.1	46.0	dB(A)
20:00 - 21:00	54.6	80.7	46.3	dB(A)
21:00 - 22:00	52.9	72.9	49.0	dB(A)
22:00 - 23:00	50.1	68.5	48.0	dB(A)
23:00 - 00:00	48.8	75.1	44.7	dB(A)
00:00 - 01:00	46.0	64.7	43.3	dB(A)
01:00 - 02:00	43.4	58.2	42.3	dB(A)
02:00 - 03:00	44.1	58.7	42.6	dB(A)
03:00 - 04:00	44.4	67.3	42.1	dB(A)
04:00 - 05:00	45.7	64.4	43.4	dB(A)
05:00 - 06:00	48.5	65.5	43.9	dB(A)
06:00 - 07:00	52.2	68.3	46.7	dB(A)
07:00 - 08:00	55.7	76.3	47.6	dB(A)
08:00 - 09:00	54.6	73.3	47.6	dB(A)
$L_{eq}$ 24 hr.	51.7	-	-	dB(A)
$L_{dn}$	55.6	-	-	dB(A)
Maximum	-	81.9	-	dB(A)
Standard	70 <sup>1/1,2</sup>	115 <sup>1/1,2</sup>	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankhun)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5575

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเชิงใต้<sup>1/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 30971  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 22-23/08/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 24/08/2024  
 S/N G301638 : Class 2 REPORTED DATE : 02/09/2024

TIME \ DATE	22-23/08/2024 ( $L_{eq}$ )	22-23/08/2024 ( $L_{max}$ )	22-23/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	51.6	73.9	45.7	dB(A)
10:00 - 11:00	51.5	72.0	44.6	dB(A)
11:00 - 12:00	49.9	73.2	44.8	dB(A)
12:00 - 13:00	53.1	72.0	48.4	dB(A)
13:00 - 14:00	49.1	67.8	44.9	dB(A)
14:00 - 15:00	53.5	83.0	45.1	dB(A)
15:00 - 16:00	54.1	78.9	46.6	dB(A)
16:00 - 17:00	51.8	69.7	45.4	dB(A)
17:00 - 18:00	54.8	76.7	45.5	dB(A)
18:00 - 19:00	53.4	74.9	46.9	dB(A)
19:00 - 20:00	54.8	83.6	48.1	dB(A)
20:00 - 21:00	54.6	69.5	50.9	dB(A)
21:00 - 22:00	52.5	74.0	50.0	dB(A)
22:00 - 23:00	51.9	66.0	49.3	dB(A)
23:00 - 00:00	50.6	75.7	45.7	dB(A)
00:00 - 01:00	47.1	70.7	44.3	dB(A)
01:00 - 02:00	50.8	80.1	43.1	dB(A)
02:00 - 03:00	46.0	67.8	42.6	dB(A)
03:00 - 04:00	44.3	56.1	43.3	dB(A)
04:00 - 05:00	46.9	68.2	44.0	dB(A)
05:00 - 06:00	49.8	64.7	46.1	dB(A)
06:00 - 07:00	53.4	71.3	49.1	dB(A)
07:00 - 08:00	56.4	77.8	48.1	dB(A)
08:00 - 09:00	53.7	69.1	48.5	dB(A)
$L_{eq}$ 24 hr.	52.4	-	-	dB(A)
$L_{dn}$	57.0	-	-	dB(A)
Maximum	-	83.6	-	dB(A)
Standard	70 <sup>1/1,1/2</sup>	115 <sup>1/1,1/2</sup>	-	dB(A)

REMARK : <sup>1/</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5576

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณริมรั้วโครงการด้านทิศตะวันออกเฉียงใต้<sup>1/4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301638 : Class 2

SAMPLE NO. : 30972  
MEASURING DATE : 23-24/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME \ DATE	23-24/08/2024 ( $L_{eq}$ )	23-24/08/2024 ( $L_{max}$ )	23-24/08/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	50.1	65.4	45.5	dB(A)
10:00 - 11:00	47.8	66.0	43.9	dB(A)
11:00 - 12:00	50.1	69.6	45.4	dB(A)
12:00 - 13:00	52.1	74.9	46.3	dB(A)
13:00 - 14:00	55.7	72.0	48.0	dB(A)
14:00 - 15:00	53.4	67.6	49.7	dB(A)
15:00 - 16:00	54.4	78.5	45.9	dB(A)
16:00 - 17:00	51.2	70.8	45.4	dB(A)
17:00 - 18:00	54.9	74.1	47.4	dB(A)
18:00 - 19:00	54.9	81.8	48.7	dB(A)
19:00 - 20:00	54.8	75.0	50.3	dB(A)
20:00 - 21:00	54.3	71.0	50.1	dB(A)
21:00 - 22:00	57.2	85.1	49.6	dB(A)
22:00 - 23:00	52.1	71.6	49.6	dB(A)
23:00 - 00:00	52.0	72.8	49.8	dB(A)
00:00 - 01:00	49.8	63.1	48.8	dB(A)
01:00 - 02:00	47.9	62.1	46.1	dB(A)
02:00 - 03:00	49.3	77.8	45.9	dB(A)
03:00 - 04:00	47.9	69.9	45.4	dB(A)
04:00 - 05:00	48.7	69.8	45.9	dB(A)
05:00 - 06:00	50.5	68.4	47.3	dB(A)
06:00 - 07:00	52.0	67.7	48.2	dB(A)
07:00 - 08:00	57.5	84.9	48.1	dB(A)
08:00 - 09:00	54.0	75.9	46.8	dB(A)
$L_{eq}$ 24 hr.	53.1	-	-	dB(A)
$L_{dn}$	57.5	-	-	dB(A)
Maximum	-	85.1	-	dB(A)
Standard	70 <sup>1/1, 1/2</sup>	115 <sup>1/1, 1/2</sup>	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727070, 1445185

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankha)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Request No. LA67-R0875

Report No. R6708-5577

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) I Limited

SAMPLE POINT : บริเวณบ้านเขาหิน<sup>/4</sup>PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$ 

DETERMINATION METHOD : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N G301039 : Class 2

SAMPLE NO. : 30973

MEASURING DATE : 17-18/08/2024

RECEIVED DATE : 24/08/2024

REPORTED DATE : 02/09/2024

TIME \ DATE	17-18/08/2024 ( $L_{eq}$ )	17-18/08/2024 ( $L_{max}$ )	17-18/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	48.8	57.4	46.9	dB(A)
11:00 - 12:00	48.7	64.5	46.2	dB(A)
12:00 - 13:00	50.0	69.0	46.4	dB(A)
13:00 - 14:00	48.5	62.0	46.7	dB(A)
14:00 - 15:00	68.1	77.1	65.6	dB(A)
15:00 - 16:00	50.1	66.5	47.0	dB(A)
16:00 - 17:00	51.8	67.2	48.7	dB(A)
17:00 - 18:00	53.1	73.3	49.7	dB(A)
18:00 - 19:00	51.9	70.8	48.2	dB(A)
19:00 - 20:00	53.2	66.9	51.1	dB(A)
20:00 - 21:00	59.5	74.5	53.5	dB(A)
21:00 - 22:00	60.7	77.6	52.9	dB(A)
22:00 - 23:00	58.2	75.9	52.4	dB(A)
23:00 - 00:00	58.3	73.7	51.9	dB(A)
00:00 - 01:00	62.2	75.8	54.5	dB(A)
01:00 - 02:00	64.7	75.8	56.3	dB(A)
02:00 - 03:00	65.9	74.4	62.5	dB(A)
03:00 - 04:00	64.5	77.7	59.4	dB(A)
04:00 - 05:00	60.3	72.7	58.7	dB(A)
05:00 - 06:00	57.5	64.4	55.8	dB(A)
06:00 - 07:00	51.3	71.5	46.9	dB(A)
07:00 - 08:00	51.1	71.1	46.9	dB(A)
08:00 - 09:00	49.9	68.7	45.8	dB(A)
09:00 - 10:00	48.4	69.9	44.3	dB(A)
$L_{eq}$ 24 hr.	60.1	-	-	dB(A)
$L_{dn}$	68.1	-	-	dB(A)
Maximum	-	77.7	-	dB(A)
Standard	70 <sup>/1, /2</sup>	115 <sup>/1, /2</sup>	-	dB(A)

**REMARK :** <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>/3</sup> Start Time<sup>/4</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5578

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
 SAMPLE POINT : บริเวณบ้านเขาหิน<sup>1/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
 DETERMINATION METHOD : ISO 1996-1:2016  
 INSTRUMENT : Integrated Sound Level Meter  
 S/N G301039 : Class 2

SAMPLE NO. : 30974  
 MEASURING DATE : 18-19/08/2024  
 RECEIVED DATE : 24/08/2024  
 REPORTED DATE : 02/09/2024

TIME \ DATE	18-19/08/2024 ( $L_{eq}$ )	18-19/08/2024 ( $L_{max}$ )	18-19/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	47.0	59.2	43.0	dB(A)
11:00 - 12:00	47.3	65.3	43.0	dB(A)
12:00 - 13:00	47.7	67.0	43.7	dB(A)
13:00 - 14:00	65.2	90.7	60.6	dB(A)
14:00 - 15:00	56.2	74.5	49.1	dB(A)
15:00 - 16:00	50.4	68.2	46.5	dB(A)
16:00 - 17:00	52.1	73.7	46.7	dB(A)
17:00 - 18:00	51.0	66.1	47.1	dB(A)
18:00 - 19:00	53.4	71.6	50.4	dB(A)
19:00 - 20:00	54.2	71.0	51.4	dB(A)
20:00 - 21:00	60.3	77.9	49.9	dB(A)
21:00 - 22:00	64.5	79.1	49.2	dB(A)
22:00 - 23:00	65.2	80.0	48.9	dB(A)
23:00 - 00:00	64.7	79.9	48.9	dB(A)
00:00 - 01:00	65.7	80.7	47.6	dB(A)
01:00 - 02:00	67.6	81.9	46.3	dB(A)
02:00 - 03:00	71.5	83.0	51.6	dB(A)
03:00 - 04:00	72.7	83.7	49.7	dB(A)
04:00 - 05:00	72.4	83.5	63.4	dB(A)
05:00 - 06:00	68.4	83.8	45.4	dB(A)
06:00 - 07:00	52.6	69.2	48.7	dB(A)
07:00 - 08:00	53.2	72.8	48.5	dB(A)
08:00 - 09:00	50.8	71.9	46.4	dB(A)
09:00 - 10:00	47.3	58.2	45.2	dB(A)
$L_{eq}$ 24 hr.	65.3	-	-	dB(A)
$L_{dn}$	74.9	-	-	dB(A)
Maximum	-	90.7	-	dB(A)
Standard	70 <sup>1/1,2</sup>	115 <sup>1/1,2</sup>	-	dB(A)

REMARK : <sup>1/</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>2/</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>3/</sup> Start Time<sup>4/</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5579

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate I, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
 SAMPLE POINT : บริเวณบ้านเขาหิน<sup>/4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
 DETERMINATION METHOD : ISO 1996-1:2016  
 INSTRUMENT : Integrated Sound Level Meter  
 S/N G301039 : Class 2

SAMPLE NO. : 30975  
 MEASURING DATE : 19-20/08/2024  
 RECEIVED DATE : 24/08/2024  
 REPORTED DATE : 02/09/2024

TIME \ DATE	19-20/08/2024 ( $L_{eq}$ )	19-20/08/2024 ( $L_{max}$ )	19-20/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	47.3	59.7	44.7	dB(A)
11:00 - 12:00	46.8	63.3	43.8	dB(A)
12:00 - 13:00	48.4	70.5	44.3	dB(A)
13:00 - 14:00	48.2	71.5	44.2	dB(A)
14:00 - 15:00	46.4	59.4	43.9	dB(A)
15:00 - 16:00	46.4	62.6	43.7	dB(A)
16:00 - 17:00	48.1	66.4	45.5	dB(A)
17:00 - 18:00	51.8	71.4	47.8	dB(A)
18:00 - 19:00	53.3	74.3	48.2	dB(A)
19:00 - 20:00	51.4	67.5	48.4	dB(A)
20:00 - 21:00	51.3	68.1	47.4	dB(A)
21:00 - 22:00	50.6	66.9	46.5	dB(A)
22:00 - 23:00	49.3	60.5	46.1	dB(A)
23:00 - 00:00	49.4	61.3	45.7	dB(A)
00:00 - 01:00	49.8	63.7	45.7	dB(A)
01:00 - 02:00	53.4	67.1	46.3	dB(A)
02:00 - 03:00	57.0	68.8	49.8	dB(A)
03:00 - 04:00	58.2	66.4	48.6	dB(A)
04:00 - 05:00	61.9	66.3	58.1	dB(A)
05:00 - 06:00	60.0	67.2	53.3	dB(A)
06:00 - 07:00	51.8	70.3	48.1	dB(A)
07:00 - 08:00	52.6	69.7	47.2	dB(A)
08:00 - 09:00	48.3	65.8	44.1	dB(A)
09:00 - 10:00	45.9	59.4	42.9	dB(A)
$L_{eq}$ 24 hr.	53.8	-	-	dB(A)
$L_{dn}$	62.7	-	-	dB(A)
Maximum	-	74.3	-	dB(A)
Standard	70 <sup>/1, /2</sup>	115 <sup>/1, /2</sup>	-	dB(A)

**REMARK :** <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>/3</sup> Start Time<sup>/4</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankhuan)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA67-R0875

Report No. R6708-5580

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณบ้านเขาหิน<sup>/4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301039 : Class 2

SAMPLE NO. : 30976  
MEASURING DATE : 20-21/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME \ DATE	20-21/08/2024 ( $L_{eq}$ )	20-21/08/2024 ( $L_{max}$ )	20-21/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	45.8	61.5	43.0	dB(A)
11:00 - 12:00	46.4	67.7	42.7	dB(A)
12:00 - 13:00	47.3	69.0	42.6	dB(A)
13:00 - 14:00	48.9	73.4	43.3	dB(A)
14:00 - 15:00	53.1	69.0	49.0	dB(A)
15:00 - 16:00	48.8	64.1	45.8	dB(A)
16:00 - 17:00	56.7	81.2	45.3	dB(A)
17:00 - 18:00	51.5	73.7	46.8	dB(A)
18:00 - 19:00	50.4	60.0	47.7	dB(A)
19:00 - 20:00	49.8	64.5	47.3	dB(A)
20:00 - 21:00	50.5	70.9	47.3	dB(A)
21:00 - 22:00	48.6	63.4	45.9	dB(A)
22:00 - 23:00	47.4	60.4	46.1	dB(A)
23:00 - 00:00	47.9	63.0	46.0	dB(A)
00:00 - 01:00	46.8	54.7	45.8	dB(A)
01:00 - 02:00	47.2	58.6	45.8	dB(A)
02:00 - 03:00	46.1	55.4	45.3	dB(A)
03:00 - 04:00	46.6	65.1	45.1	dB(A)
04:00 - 05:00	46.9	60.3	44.7	dB(A)
05:00 - 06:00	49.6	69.4	45.0	dB(A)
06:00 - 07:00	50.1	66.5	46.8	dB(A)
07:00 - 08:00	51.9	69.4	46.2	dB(A)
08:00 - 09:00	48.3	68.0	44.8	dB(A)
09:00 - 10:00	46.8	64.2	43.6	dB(A)
$L_{eq}$ 24 hr.	49.8	-	-	dB(A)
$L_{dn}$	54.8	-	-	dB(A)
Maximum	-	81.2	-	dB(A)
Standard	70 <sup>/1,2</sup>	115 <sup>/1,2</sup>	-	dB(A)

REMARK : <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>/3</sup> Start Time<sup>/4</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA67-R0875

Report No. R6708-5581

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณบ้านเขาหิน<sup>1/4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301039 : Class 2

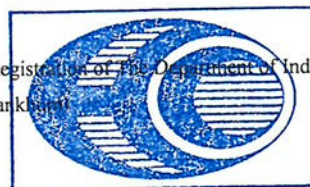
SAMPLE NO. : 30977  
MEASURING DATE : 21-22/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME \ DATE	21-22/08/2024 ( $L_{eq}$ )	21-22/08/2024 ( $L_{max}$ )	21-22/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	46.1	60.5	43.4	dB(A)
11:00 - 12:00	46.9	65.4	43.3	dB(A)
12:00 - 13:00	48.3	69.6	43.0	dB(A)
13:00 - 14:00	45.9	57.2	43.6	dB(A)
14:00 - 15:00	47.3	72.4	43.3	dB(A)
15:00 - 16:00	46.4	62.9	43.3	dB(A)
16:00 - 17:00	47.9	66.2	44.6	dB(A)
17:00 - 18:00	50.4	73.4	46.3	dB(A)
18:00 - 19:00	50.0	67.5	46.0	dB(A)
19:00 - 20:00	50.4	66.8	46.9	dB(A)
20:00 - 21:00	48.9	66.0	46.2	dB(A)
21:00 - 22:00	47.8	66.0	45.1	dB(A)
22:00 - 23:00	46.5	64.4	44.5	dB(A)
23:00 - 00:00	51.1	79.9	44.6	dB(A)
00:00 - 01:00	46.0	60.6	44.8	dB(A)
01:00 - 02:00	45.2	59.1	44.3	dB(A)
02:00 - 03:00	45.2	56.5	44.3	dB(A)
03:00 - 04:00	45.8	58.6	44.3	dB(A)
04:00 - 05:00	48.4	63.4	44.2	dB(A)
05:00 - 06:00	48.6	61.0	44.4	dB(A)
06:00 - 07:00	50.0	63.4	46.4	dB(A)
07:00 - 08:00	52.4	72.2	46.8	dB(A)
08:00 - 09:00	50.4	74.2	45.1	dB(A)
09:00 - 10:00	46.6	63.9	44.2	dB(A)
$L_{eq}$ 24 hr.	48.5	-	-	dB(A)
$L_{dn}$	54.5	-	-	dB(A)
Maximum	-	79.9	-	dB(A)
Standard	70 <sup>1/1, 1/2</sup>	115 <sup>1/1, 1/2</sup>	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time<sup>1/4</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Register Use of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photarkasorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5582

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited  
 ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited  
 SAMPLE POINT : บริเวณบ้านเขาหิน<sup>4</sup>  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
 DETERMINATION METHOD : ISO 1996-1:2016  
 INSTRUMENT : Integrated Sound Level Meter  
 S/N G301039 : Class 2

SAMPLE NO. : 30978  
 MEASURING DATE : 22-23/08/2024  
 RECEIVED DATE : 24/08/2024  
 REPORTED DATE : 02/09/2024

TIME \ DATE	22-23/08/2024 ( $L_{eq}$ )	22-23/08/2024 ( $L_{max}$ )	22-23/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>3</sup>	46.9	57.7	44.2	dB(A)
11:00 - 12:00	47.9	65.1	45.1	dB(A)
12:00 - 13:00	56.9	72.7	51.5	dB(A)
13:00 - 14:00	47.8	63.0	44.8	dB(A)
14:00 - 15:00	53.2	84.8	45.3	dB(A)
15:00 - 16:00	51.1	75.4	47.4	dB(A)
16:00 - 17:00	49.3	66.1	46.1	dB(A)
17:00 - 18:00	51.9	79.3	45.6	dB(A)
18:00 - 19:00	50.2	74.7	45.6	dB(A)
19:00 - 20:00	50.5	68.3	47.2	dB(A)
20:00 - 21:00	50.4	66.8	47.7	dB(A)
21:00 - 22:00	48.1	61.9	46.1	dB(A)
22:00 - 23:00	48.8	65.4	46.0	dB(A)
23:00 - 00:00	47.4	63.1	45.4	dB(A)
00:00 - 01:00	46.1	59.4	44.9	dB(A)
01:00 - 02:00	46.2	58.8	45.2	dB(A)
02:00 - 03:00	46.1	55.7	45.2	dB(A)
03:00 - 04:00	46.7	58.0	45.6	dB(A)
04:00 - 05:00	47.1	60.1	45.2	dB(A)
05:00 - 06:00	49.8	62.3	45.7	dB(A)
06:00 - 07:00	51.9	76.0	47.9	dB(A)
07:00 - 08:00	52.2	70.4	47.0	dB(A)
08:00 - 09:00	49.8	67.9	45.2	dB(A)
09:00 - 10:00	47.9	60.6	44.8	dB(A)
$L_{eq}$ 24 hr.	50.3	-	-	dB(A)
$L_{dn}$	55.2	-	-	dB(A)
Maximum	-	84.8	-	dB(A)
Standard	70 <sup>1/,2</sup>	115 <sup>1/,2</sup>	-	dB(A)

REMARK : <sup>1/</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>2/</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>3/</sup> Start Time<sup>4/</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankhun)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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Request No. LA67-R0875

Report No. R6708-5583

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited  
SAMPLE POINT : บริเวณบ้านเขาหิน<sup>4</sup>  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90}$  &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301039 : Class 2

SAMPLE NO. : 30979  
MEASURING DATE : 23-24/08/2024  
RECEIVED DATE : 24/08/2024  
REPORTED DATE : 02/09/2024

TIME \ DATE	23-24/08/2024 ( $L_{eq}$ )	23-24/08/2024 ( $L_{max}$ )	23-24/08/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>13</sup>	46.7	66.4	44.1	dB(A)
11:00 - 12:00	49.0	64.0	45.6	dB(A)
12:00 - 13:00	51.5	70.1	47.4	dB(A)
13:00 - 14:00	49.1	71.0	45.4	dB(A)
14:00 - 15:00	49.2	68.8	46.4	dB(A)
15:00 - 16:00	48.7	61.9	46.0	dB(A)
16:00 - 17:00	49.9	70.1	46.4	dB(A)
17:00 - 18:00	50.8	75.3	46.3	dB(A)
18:00 - 19:00	51.5	75.6	46.0	dB(A)
19:00 - 20:00	50.8	69.5	47.3	dB(A)
20:00 - 21:00	51.0	73.8	47.2	dB(A)
21:00 - 22:00	49.5	74.2	46.0	dB(A)
22:00 - 23:00	48.8	68.7	45.6	dB(A)
23:00 - 00:00	47.4	63.9	45.7	dB(A)
00:00 - 01:00	46.6	57.2	45.3	dB(A)
01:00 - 02:00	46.6	55.2	45.4	dB(A)
02:00 - 03:00	46.5	60.5	45.6	dB(A)
03:00 - 04:00	46.6	58.3	45.4	dB(A)
04:00 - 05:00	48.2	58.6	46.3	dB(A)
05:00 - 06:00	50.3	61.4	47.1	dB(A)
06:00 - 07:00	51.1	73.3	47.6	dB(A)
07:00 - 08:00	52.5	73.2	46.6	dB(A)
08:00 - 09:00	49.4	67.9	45.3	dB(A)
09:00 - 10:00	47.8	67.0	44.1	dB(A)
$L_{eq}$ 24 hr.	49.5	-	-	dB(A)
$L_{dn}$	55.0	-	-	dB(A)
Maximum	-	75.6	-	dB(A)
Standard	70 <sup>11,12</sup>	115 <sup>11,12</sup>	-	dB(A)

**REMARK :** <sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>13</sup> Start Time<sup>14</sup> GPS 47P 0727526, 1444787

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Measurement By Mr. Tummarut Photankhura)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/09/2024

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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) 1 Limited\*\*\*  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันก๊าซ (GT11)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 24266  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 13/07/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 13/07/2024  
S/N 00322744 : Class 2 REPORTED DATE : 18/07/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:25 - 09:25	73	73	77	72	dB(A)
09:25 - 10:25	73	73	79	72	dB(A)
10:25 - 11:25	73	73	77	72	dB(A)
11:25 - 12:25	72	72	77	70	dB(A)
12:25 - 13:25	71	71	76	70	dB(A)
13:25 - 14:25	73	73	79	72	dB(A)
14:25 - 15:25	73	73	78	72	dB(A)
15:25 - 16:25	73	73	76	72	dB(A)
$L_{eq}$ 8 hr. (TWA)	72*	72**	-	-	dB(A)
$L_{max}$	-	-	79	-	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	- <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employee: are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018  
<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
(Published in the Government Gazette on January 26, 2018)  
<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
\* Based on Criteria 85 dB(A): 3 dB Exchange Rate  
\*\* Based on Criteria 90 dB(A): 5 dB Exchange Rate  
\*\*\* These Data are Non Laboratory Data  
\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Pornnapha Phongphet)



Approved By



(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

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THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) 1 Limited\*\*\*  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันไอน้ำ\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 24264  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 13/07/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 13/07/2024  
S/N 00222594 : Class 2 REPORTED DATE : 18/07/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:15 - 09:15	69	69	73	68	dB(A)
09:15 - 10:15	68	68	77	67	dB(A)
10:15 - 11:15	68	68	87	67	dB(A)
11:15 - 12:15	68	68	78	67	dB(A)
12:15 - 13:15	69	69	76	67	dB(A)
13:15 - 14:15	68	68	78	67	dB(A)
14:15 - 15:15	67	67	81	66	dB(A)
15:15 - 16:15	67	67	77	66	dB(A)
$L_{eq}$ 8 hr. (TWA)	68*	68**	-	-	dB(A)
$L_{max}$	-	-	87	-	dB(A)
Standard	85 <sup>1)</sup>	90 <sup>2)</sup>	- <sup>1)</sup> , 140 <sup>2)</sup> , 115 <sup>3)</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1)</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

<sup>2)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>3)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Pornnapha Phongphet)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) I Limited\*\*\*  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited\*\*\*  
SAMPLE POINT : เครื่องอัดอากาศ\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 24265  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 13/07/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 13/07/2024  
S/N 00322751 : Class 2 REPORTED DATE : 18/07/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:10 - 09:10	77	77	83	74	dB(A)
09:10 - 10:10	79	79	86	76	dB(A)
10:10 - 11:10	78	78	84	75	dB(A)
11:10 - 12:10	77	77	83	74	dB(A)
12:10 - 13:10	75	75	82	72	dB(A)
13:10 - 14:10	77	77	83	74	dB(A)
14:10 - 15:10	77	77	83	74	dB(A)
15:10 - 16:10	77	77	83	73	dB(A)
$L_{eq}$ 8 hr. (TWA)	77*	77**	-	-	dB(A)
$L_{max}$	-	-	86	-	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	- <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employee are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

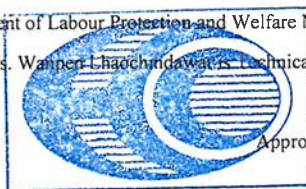
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Pornnapa Phongphet)



Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) 1 Limited\*\*\*  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันก๊าซ (GT12)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 24263  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 13/07/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 13/07/2024  
S/N 00322752 : Class 2 REPORTED DATE : 18/07/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:20 - 09:20	80	80	87	77	dB(A)
09:20 - 10:20	79	79	85	76	dB(A)
10:20 - 11:20	78	78	84	76	dB(A)
11:20 - 12:20	78	78	86	75	dB(A)
12:20 - 13:20	77	77	85	75	dB(A)
13:20 - 14:20	78	78	84	76	dB(A)
14:20 - 15:20	78	78	85	76	dB(A)
15:20 - 16:20	78	78	84	76	dB(A)
$L_{eq}$ 8 hr. (TWA)	78*	78**	-	-	dB(A)
$L_{max}$	-	-	87	-	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	- <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Pornnapha Phongphet)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) I Limited\*\*\*  
ADDRESS : 369/27 Moo 6. WHA Chonburi Industrial Estate I. Bowin. Sriracha. Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันก๊าซ (GT11)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90}^{\#}$  SAMPLE NO. : 36884  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 04/10/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 04/10/2024  
S/N 00322756 : Class 2 REPORTED DATE : 18/10/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90}^{\#}$	
08:40 - 09:40	70	70	75	69	dB(A)
09:40 - 10:40	70	70	73	69	dB(A)
10:40 - 11:40	69	69	72	69	dB(A)
11:40 - 12:40	70	70	74	69	dB(A)
12:40 - 13:40	70	70	74	69	dB(A)
13:40 - 14:40	71	71	75	69	dB(A)
14:40 - 15:40	71	71	76	70	dB(A)
15:40 - 16:40	71	71	75	70	dB(A)
$L_{eq}$ 8 hr. (TWA)	70*	70**	—	—	dB(A)
$L_{max}$	—	—	76	—	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	— <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	—	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
## ISO 11202:2010. Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment. Dated November 6. 2003. Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day. Dated December 13. 2017. Notification of The Department of Labour Protection and Welfare on Criteria. Measurement Methods. and Analysis of Working Conditions Regarding Heat. Light. or Noise Levels. Including Duration and Types of Businesses to Be Performed. Dated February 8. 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26. 2018)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A): 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A): 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Savita Kitinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) I Limited\*\*\*  
ADDRESS : 369/27 Moo 6. WHA Chonburi Industrial Estate I. Bowin. Sriracha. Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันไอน้ำ\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 36886  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 04/10/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 04/10/2024  
S/N 00322745 : Class 2 REPORTED DATE : 18/10/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:25 - 09:25	71	71	73	70	dB(A)
09:25 - 10:25	70	70	72	70	dB(A)
10:25 - 11:25	70	70	73	70	dB(A)
11:25 - 12:25	71	71	72	70	dB(A)
12:25 - 13:25	71	71	73	70	dB(A)
13:25 - 14:25	71	71	73	70	dB(A)
14:25 - 15:25	71	71	76	70	dB(A)
15:25 - 16:25	71	71	72	70	dB(A)
$L_{eq}$ 8 hr. (TWA)	70*	70**	-	-	dB(A)
$L_{max}$	-	-	76	-	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	- <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	-	dB(A)

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<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A): 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A): 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Savita Kitinoavarat)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) I Limited\*\*\*  
ADDRESS : 369/27 Moo 6. WHA Chonburi Industrial Estate I. Bowin. Sriracha. Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited\*\*\*  
SAMPLE POINT : เครื่องอัดอากาศ\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 36887  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 04/10/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 04/10/2024  
S/N 00322744 : Class 2 REPORTED DATE : 18/10/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:20 - 09:20	75	75	81	73	dB(A)
09:20 - 10:20	75	75	79	72	dB(A)
10:20 - 11:20	74	74	79	71	dB(A)
11:20 - 12:20	75	75	82	72	dB(A)
12:20 - 13:20	77	77	83	74	dB(A)
13:20 - 14:20	75	75	80	72	dB(A)
14:20 - 15:20	75	75	82	72	dB(A)
15:20 - 16:20	75	75	80	72	dB(A)
$L_{eq}$ 8 hr. (TWA)	75*	75**	—	—	dB(A)
$L_{max}$	—	—	83	—	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	— <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	—	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
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<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

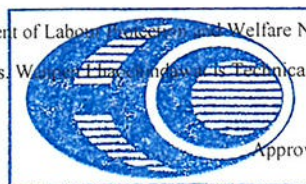
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Savita Kitinoavarat)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

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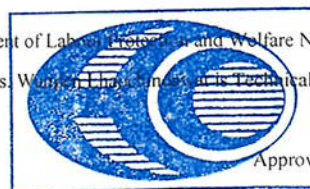
**COPY**

**TEST REPORT**

CUSTOMER : B.Grimm Power (WHA) I Limited\*\*\*  
ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate I, Bowin, Sriracha, Chonburi 20230\*\*\*  
SAMPLE SOURCE : B.Grimm Power (WHA) I Limited\*\*\*  
SAMPLE POINT : เครื่องผลิตไฟฟ้ากังหันก๊าซ (GT12)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr.,  $L_{max}$  &  $L_{90\#}$  SAMPLE NO. : 36885  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 04/10/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 04/10/2024  
S/N 00322751 : Class 2 REPORTED DATE : 18/10/2024

MEASURING TIME	RESULT				UNIT
	$L_{eq}$ 1 hr.	$L_{eq}$ 1 hr.	$L_{max}$	$L_{90\#}$	
08:35 - 09:35	77	77	83	75	dB(A)
09:35 - 10:35	76	76	80	74	dB(A)
10:35 - 11:35	75	75	81	74	dB(A)
11:35 - 12:35	76	76	82	74	dB(A)
12:35 - 13:35	76	76	84	74	dB(A)
13:35 - 14:35	77	77	86	74	dB(A)
14:35 - 15:35	77	77	84	74	dB(A)
15:35 - 16:35	76	76	80	74	dB(A)
$L_{eq}$ 8 hr. (TWA)	76*	76**	-	-	dB(A)
$L_{max}$	-	-	86	-	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	- <sup>/1</sup> , 140 <sup>/2</sup> , 115 <sup>/3</sup>	-	dB(A)

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<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
(Published in the Government Gazette on January 26, 2018)  
<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
\* Based on Criteria 85 dB(A): 3 dB Exchange Rate  
\*\* Based on Criteria 90 dB(A): 5 dB Exchange Rate  
\*\*\* These Data are Non Laboratory Data  
\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanatporn Klinsoopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Savita Kitinoavarat)



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Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

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Request No. LA67-R0764

Report No. R6707-2562

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited

SAMPLE POINT : หม้อไอน้ำ (คุณรัชชัย ศรีจวน) SAMPLE NO. : 24262

SAMPLING TIME : 09:30-11:30 MEASURING DATE : 13/07/2024

PARAMETER\* : Heat Stress RECEIVED DATE : 13/07/2024

SAMPLING INSTRUMENT : Wet Bulb Globe Temperature (WBGT) ; REPORTED DATE : 18/07/2024

Serial No. TEU080011, TEU080014

AREA	DURATION (min)	RESULT (°C)			
		NWB	GT	DB	WBGT
หม้อไอน้ำ	45	27.8	46.9	34.5	32.3 <sup>/2</sup>
ห้อง Lab	75	20.9	26.1	25.4	22.4 <sup>/3</sup>
WBGT AVERAGE	-	-	-	-	26.1
STANDARD	-	-	-	-	34.0 <sup>/1</sup>

## REMARK :

Work Load is Light

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)<sup>/2</sup> หม้อไอน้ำ = Outdoor, WBGT : Serial No. TEU080014<sup>/3</sup> ห้อง Lab = Indoor, WBGT : Serial No. TEU080011

NWB = Natural Wet - Bulb Temperature

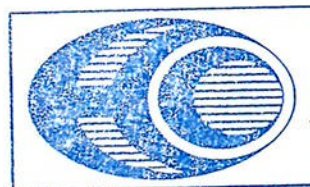
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

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Request No. LA67-R0764

Report No. R6707-2561

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) 1 Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) 1 Limited

SAMPLE POINT : เครื่องกำเนิดไฟฟ้า (คุณสมบัติทางสถิติ แสงแก้ว) SAMPLE NO. : 24261

SAMPLING TIME : 09:30-11:30 MEASURING DATE : 13/07/2024

PARAMETER\* : Heat Stress RECEIVED DATE : 13/07/2024

SAMPLING INSTRUMENT : Wet Bulb Globe Temperature (WBGT); REPORTED DATE : 18/07/2024

Serial No. TEU080011, TEU080012

AREA	DURATION (min)	RESULT (°C)			
		NWB	GT	DB	WBGT
เครื่องกำเนิดไฟฟ้า	45	27.7	37.8	37.3	30.7 <sup>/2</sup>
ห้อง Lab	75	20.9	26.1	25.4	22.4 <sup>/3</sup>
WBGT AVERAGE	-	-	-	-	25.5
STANDARD	-	-	-	-	34.0 <sup>/1</sup>

## REMARK :

Work Load is Light

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)<sup>/2</sup> เครื่องกำเนิดไฟฟ้า = Indoor, WBGT : Serial No. TEU080012<sup>/3</sup> ห้อง Lab = Indoor, WBGT : Serial No. TEU080011

NWB = Natural Wet - Bulb Temperature

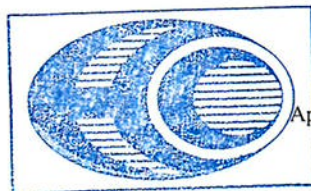
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/07/2024

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Request No. LA67-R1043

Report No. R6710-1907

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) I Limited

SAMPLE POINT : หม้อไอน้ำ (คุณรัชชัย ศรีจวน) SAMPLE NO. : 36882

SAMPLING TIME : 10:00-12:00 MEASURING DATE : 04/10/2024

PARAMETER\* : Heat Stress RECEIVED DATE : 04/10/2024

SAMPLING INSTRUMENT : Wet Bulb Globe Temperature (WBGT) ; REPORTED DATE : 18/10/2024

Serial No. TEU080015, TEU080012

AREA	DURATION (min)	RESULT (°C)			
		NWB	GT	DB	WBGT
หม้อไอน้ำ	45	31.1	40.2	36.1	33.4 <sup>/2</sup>
ห้อง Lab	75	22.4	25.6	25.2	23.3 <sup>/3</sup>
WBGT AVERAGE	-	-	-	-	27.1
STANDARD	-	-	-	-	34.0 <sup>/1</sup>

## REMARK :

Work Load is Light

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)<sup>/2</sup> หม้อไอน้ำ = Outdoor, WBGT : Serial No. TEU080015<sup>/3</sup> ห้อง Lab = Indoor, WBGT : Serial No. TEU080012

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Ms. Savita Kitinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA67-R1043

Report No. R6710-1906

## TEST REPORT

CUSTOMER : B.Grimm Power (WHA) I Limited

ADDRESS : 369/27 Moo 6, WHA Chonburi Industrial Estate 1, Bowin, Sriracha, Chonburi 20230

SAMPLE SOURCE : B.Grimm Power (WHA) I Limited

SAMPLE POINT : เครื่องกำเนิดไฟฟ้า (คุณปณิน พานิช) SAMPLE NO. : 36881

SAMPLING TIME : 10:00-12:00 MEASURING DATE : 04/10/2024

PARAMETER\* : Heat Stress RECEIVED DATE : 04/10/2024

SAMPLING INSTRUMENT : Wet Bulb Globe Temperature (WBGT); REPORTED DATE : 18/10/2024

Serial No. 22004318, TEU080012

AREA	DURATION (min)	RESULT (°C)			
		NWB	GT	DB	WBGT
เครื่องกำเนิดไฟฟ้า	45	26.7	32.7	32.5	28.5 <sup>/2</sup>
ห้อง Lab	75	22.4	25.6	25.2	23.3 <sup>/3</sup>
WBGT AVERAGE	-	-	-	-	25.3
STANDARD	-	-	-	-	34.0 <sup>/1</sup>

## REMARK :

Work Load is Light

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)<sup>/2</sup> เครื่องกำเนิดไฟฟ้า = Indoor, WBGT : Serial No. 22004318<sup>/3</sup> ห้อง Lab = Indoor, WBGT : Serial No. TEU080012

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Ms. Savita Kitinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2024

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