

Request No. LA66-0949

Report No. 6610-0082

## TEST REPORT

CUSTOMER : Egco Engineering &amp; Service Co.,Ltd.

ADDRESS : 222 Moo 8 T. Maikhua A. Nikhom Pattana, Rayong 21180

SAMPLE SOURCE : Egco Cogen Power Plant

SAMPLE POINT : Main Stack HRSG 11

SAMPLE NO. : 04790

SAMPLING DATE : 26/09/2023

SAMPLING TIME : 12:30-13:05

RECEIVED DATE : 28/09/2023

REPORTED DATE : 11/10/2023

TESTED DATE : 28/09/2023 – 04/10/2023

## STACK DESCRIPTION

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	110.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	14.19	m/s	Oxygen Content :	14.50 %
Flow rate <sup>3</sup> :	109.81	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD	UNIT
			14.50 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	12:30-13:05	0.5	1.1	54 <sup>1</sup> , 60 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0549	-	4.57 <sup>1</sup>	g/s

## REMARK:

- <sup>1</sup> มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>4</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Warakorn Vitayasevee (ว-003-ก-0021)

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-0007)

11/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ก-0012)

11/10/2023

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

Request No. LA66-0949

Report No. 6610-0084

## TEST REPORT

CUSTOMER : Egco Engineering &amp; Service Co.,Ltd.

ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180

SAMPLE SOURCE : Egco Cogen Power Plant

SAMPLE POINT : Main Stack HRSG 11

SAMPLE NO. : 04792

SAMPLING DATE : 26/09/2023

SAMPLING TIME : 13:00-13:10

RECEIVED DATE : 28/09/2023

REPORTED DATE : 11/10/2023

TESTED DATE : 28/09/2023 – 09/10/2023

STACK DESCRIPTION<sup>⑥</sup>

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	110.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	14.19	m/s	Oxygen Content :	14.50 %
Flow rate <sup>②</sup> :	109.81	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>②</sup>		STD <sup>①</sup>	UNIT
			14.50 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon monoxide	Non-Dispersive Infrared	13:00-13:10	0.6	1.3	790	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		0.5	1.1	690	ppm
			0.0659	-	-	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>⑥</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Warakorn Vitayasevee (จ-003-ค-0021)

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

11/10/2023



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(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

11/10/2023

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Request No. LA66-0949

Report No. 6610-0083

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE POINT : Main Stack HRSG 11  
 SAMPLING DATE : 26/09/2023  
 RECEIVED DATE : 28/09/2023  
 TESTED DATE : 28/09/2023 – 04/10/2023  
 SAMPLE NO. : 04791  
 SAMPLING TIME : 12:40-12:45  
 REPORTED DATE : 11/10/2023

STACK DESCRIPTION<sup>®</sup>

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	110.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	14.19	m/s	Oxygen Content :	14.50 %
Flow rate <sup>3</sup> :	109.81	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD	UNIT
			14.50 % O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	12:40-12:45	31.0	67.3	-	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		16.5	35.8	100 <sup>1</sup> , 120 <sup>2</sup>	ppm
			3.4041	-	20.71 <sup>1</sup>	g/s

## REMARK:

- <sup>1</sup> มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>3</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.Warakorn Vitayasevee (ว-003-ค-0021)

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

11/10/2023



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Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

11/10/2023

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Request No. LA66-0949

Report No. 6610-0085

## TEST REPORT

CUSTOMER : Egco Engineering &amp; Service Co.,Ltd.

ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180

SAMPLE SOURCE : Egco Cogen Power Plant

SAMPLE POINT : Main Stack HRSG 12

SAMPLE NO. : 04793

SAMPLING DATE : 26/09/2023

SAMPLING TIME : 11:00-11:30

RECEIVED DATE : 28/09/2023

REPORTED DATE : 11/10/2023

TESTED DATE : 28/09/2023 – 04/10/2023

STACK DESCRIPTION<sup>4</sup>

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	105.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	13.65	m/s	Oxygen Content :	14.40 %
Flow rate <sup>3</sup> :	107.01	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD	UNIT
			14.40 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	11:00-11:30	0.5	1.1	54 <sup>1</sup> , 60 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0535	-	4.57 <sup>1</sup>	g/s

## REMARK:

- <sup>1</sup> มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>4</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Warakorn Vitayasevee (ว-003-ก-0021)

Examined By.....



(Miss Apiradee Chuen-arom)

(ว-003-ก-0007)

11/10/2023



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Approved By.....



(Mr. Thongchai Boonsak)

(ว-003-ก-0012)

11/10/2023

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Request No. LA66-0949

Report No. 6610-0087

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nihom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE POINT : Main Stack HRS 12  
 SAMPLING DATE : 26/09/2023  
 RECEIVED DATE : 28/09/2023  
 TESTED DATE : 28/09/2023 – 04/10/2023  
 SAMPLE NO. : 04795  
 SAMPLING TIME : 11:30-11:40  
 REPORTED DATE : 11/10/2023

STACK DESCRIPTION<sup>6</sup>

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	105.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	13.65	m/s	Oxygen Content :	14.40 %
Flow rate <sup>2</sup> :	107.01	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			14.40 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon monoxide	Non-Dispersive Infrared	11:30-11:40	2.7	5.8	790	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		2.4	5.1	690	ppm
			0.2889	-	-	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>6</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Warakorn Vitayasevee (จ-003-ก-0021)

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

11/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(จ-003-ก-0012)

11/10/2023

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Request No. LA66-0949

Report No. 6610-0086

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE POINT : Main Stack HRSG 12  
 SAMPLING DATE : 26/09/2023  
 RECEIVED DATE : 28/09/2023  
 TESTED DATE : 28/09/2023 – 04/10/2023  
 STACK DESCRIPTION<sup>®</sup>

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	105.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	13.65	m/s	Oxygen Content :	14.40 %
Flow rate <sup>3</sup> :	107.01	m <sup>3</sup> /s	Barometric Pressure :	759.25 mmHg
Moisture Content :	4.81	%	Atmospheric Temperature :	32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD	UNIT
			14.40 % O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	11:10-11:15	22.5	48.1	-	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		12.0	25.7	100 <sup>1</sup> , 120 <sup>2</sup>	ppm
			2.4077	-	20.71 <sup>1</sup>	g/s

## REMARK:

- <sup>1</sup> มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ
- <sup>2</sup> Notification of The Ministry of Industry B.E. 2547 (2004)
- <sup>3</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.Warakorn Vitayasevee (จ-003-ก-0021)

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

11/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(จ-003-ก-0012)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0004 - 6610-0006

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Mapkha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE NAME : Nikhom Wittaya School  
RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100004 - A66100006  
TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	25-26/09/2023	0.049	0.33	mg/m <sup>3</sup>
		26-27/09/2023	0.033	0.33	mg/m <sup>3</sup>
		27-28/09/2023	0.026	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)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0001 - 6610-0003

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
 ADDRESS : 222 Moo 8 T. Mapkha A. NikhomPattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE NAME : Nikhora Wittaya School  
 RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100001 - A66100003  
 TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	25-26/09/2023	0.030	0.12	mg/m <sup>3</sup>
		26-27/09/2023	0.026	0.12	mg/m <sup>3</sup>
		27-28/09/2023	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)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0010 - 6610-0012

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
 ADDRESS : 222 Moo 8 T. Mapkha A. NikhomPattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE NAME : Mab Kha Temple  
 RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100010 - A66100012  
 TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	25-26/09/2023	0.042	0.33	mg/m <sup>3</sup>
		26-27/09/2023	0.028	0.33	mg/m <sup>3</sup>
		27-28/09/2023	0.024	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)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0007 - 6610-0009

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
 ADDRESS : 222 Moo 8 T. Mapkha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE NAME : Mab Kha Temple  
 RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100007 - A66100009  
 TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	25-26/09/2023	0.025	0.12	mg/m <sup>3</sup>
		26-27/09/2023	0.020	0.12	mg/m <sup>3</sup>
		27-28/09/2023	0.017	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)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Miss Thanatporn Klinsoon)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0016 - 6610-0018

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Mapkha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE NAME : Ban Samnak Ai Ngon  
RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100016 - A66100018  
TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>†1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	25-26/09/2023	0.035	0.33	mg/m <sup>3</sup>
		26-27/09/2023	0.036	0.33	mg/m <sup>3</sup>
		27-28/09/2023	0.026	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)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

11/10/2023

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Request No. ATR6610001

Report No. 6610-0013 - 6610-0015

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
 ADDRESS : 222 Moo 8 T. Mapkha A. NikhomPattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE NAME : Ban Samnak Ai Ngon  
 RECEIVED DATE : 02/10/2023 SAMPLE NO. : A66100013 - A66100015  
 TESTED DATE : 02/10/2023-04/10/2023 REPORTED DATE : 11/10/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	25-26/09/2023	0.027	0.12	mg/m <sup>3</sup>
		26-27/09/2023	0.027	0.12	mg/m <sup>3</sup>
		27-28/09/2023	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)



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Approved By .....

(Miss Thanatporn Klinsoon)

11/10/2023

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Request No. LA66-R1002

Report No. R6610-0027 - R6610-0029

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Nikhom Wittaya School  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 640

SAMPLE NO. : 29411-29413  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
13:00 - 14:00 <sup>13</sup>	0.004	0.004	0.003	ppm
14:00 - 15:00	0.004	0.004	0.004	ppm
15:00 - 16:00	0.004	0.004	0.004	ppm
16:00 - 17:00	0.004	0.004	0.004	ppm
17:00 - 18:00	0.004	0.004	0.004	ppm
18:00 - 19:00	0.004	0.004	0.004	ppm
19:00 - 20:00	0.004	0.004	0.004	ppm
20:00 - 21:00	0.004	0.003	0.004	ppm
21:00 - 22:00	0.004	0.003	0.003	ppm
22:00 - 23:00	0.004	0.003	0.003	ppm
23:00 - 00:00	0.004	0.003	0.004	ppm
00:00 - 01:00	0.003	0.004	0.003	ppm
01:00 - 02:00	0.003	0.004	0.003	ppm
02:00 - 03:00	0.004	0.003	0.004	ppm
03:00 - 04:00	0.004	0.004	0.004	ppm
04:00 - 05:00	0.004	0.004	0.004	ppm
05:00 - 06:00	0.004	0.004	0.004	ppm
06:00 - 07:00	0.004	0.004	0.004	ppm
07:00 - 08:00	0.004	0.004	0.003	ppm
08:00 - 09:00	0.003	0.004	0.003	ppm
09:00 - 10:00	0.004	0.004	0.004	ppm
10:00 - 11:00	0.003	0.003	0.004	ppm
11:00 - 12:00	0.004	0.003	0.004	ppm
12:00 - 13:00	0.004	0.004	0.004	ppm
Maximum 1 hr.	0.004	0.004	0.004	ppm
Average 24 hr.	0.004	0.004	0.004	ppm
Standard (1 hr.) <sup>11</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>12</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>11</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>12</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>13</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

02/10/2023

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Request No. LA66-R1002

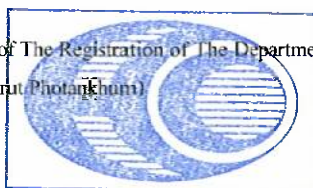
Report No. R6610-0021 - R6610-0023

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map Kha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Map Kha Temple  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model T100 S/N 5700

SAMPLE NO. : 29405-29407  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
14:00 - 15:00 <sup>3</sup>	0.012	0.013	0.013	ppm
15:00 - 16:00	0.012	0.013	0.013	ppm
16:00 - 17:00	0.012	0.013	0.013	ppm
17:00 - 18:00	0.012	0.013	0.013	ppm
18:00 - 19:00	0.013	0.013	0.013	ppm
19:00 - 20:00	0.013	0.013	0.013	ppm
20:00 - 21:00	0.013	0.013	0.013	ppm
21:00 - 22:00	0.013	0.013	0.013	ppm
22:00 - 23:00	0.013	0.013	0.013	ppm
23:00 - 00:00	0.013	0.013	0.013	ppm
00:00 - 01:00	0.013	0.013	0.013	ppm
01:00 - 02:00	0.013	0.013	0.013	ppm
02:00 - 03:00	0.013	0.013	0.013	ppm
03:00 - 04:00	0.013	0.013	0.013	ppm
04:00 - 05:00	0.013	0.013	0.013	ppm
05:00 - 06:00	0.013	0.013	0.013	ppm
06:00 - 07:00	0.013	0.013	0.013	ppm
07:00 - 08:00	0.013	0.013	0.013	ppm
08:00 - 09:00	0.013	0.013	0.013	ppm
09:00 - 10:00	0.013	0.013	0.013	ppm
10:00 - 11:00	0.013	0.013	0.013	ppm
11:00 - 12:00	0.013	0.013	0.013	ppm
12:00 - 13:00	0.013	0.013	0.013	ppm
13:00 - 14:00	0.013	0.013	0.013	ppm
Maximum 1 hr.	0.013	0.013	0.013	ppm
Average 24 hr.	0.013	0.013	0.013	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)

Approved By.....

(MS. THANATPORN KLINSOPON)

02/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA66-R1002

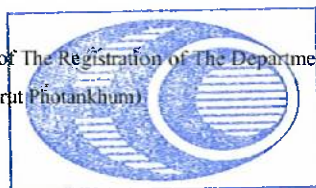
Report No. R6610-0014 - R6610-0016

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Ban Samnak Ai Ngon  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3138

SAMPLE NO. : 29399-29401  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
15:00 - 16:00 <sup>/3</sup>	0.016	0.015	0.015	ppm
16:00 - 17:00	0.016	0.015	0.015	ppm
17:00 - 18:00	0.016	0.015	0.015	ppm
18:00 - 19:00	0.016	0.015	0.015	ppm
19:00 - 20:00	0.016	0.015	0.015	ppm
20:00 - 21:00	0.016	0.015	0.015	ppm
21:00 - 22:00	0.016	0.015	0.015	ppm
22:00 - 23:00	0.016	0.015	0.015	ppm
23:00 - 00:00	0.016	0.015	0.015	ppm
00:00 - 01:00	0.016	0.015	0.015	ppm
01:00 - 02:00	0.015	0.015	0.015	ppm
02:00 - 03:00	0.015	0.015	0.015	ppm
03:00 - 04:00	0.015	0.015	0.015	ppm
04:00 - 05:00	0.015	0.015	0.015	ppm
05:00 - 06:00	0.015	0.015	0.015	ppm
06:00 - 07:00	0.015	0.015	0.015	ppm
07:00 - 08:00	0.015	0.015	0.014	ppm
08:00 - 09:00	0.016	0.015	0.015	ppm
09:00 - 10:00	0.015	0.015	0.015	ppm
10:00 - 11:00	0.015	0.015	0.015	ppm
11:00 - 12:00	0.015	0.015	0.015	ppm
12:00 - 13:00	0.015	0.015	0.015	ppm
13:00 - 14:00	0.015	0.015	0.015	ppm
14:00 - 15:00	0.015	0.015	0.015	ppm
Maximum 1 hr.	0.016	0.015	0.015	ppm
Average 24 hr.	0.016	0.015	0.015	ppm
Standard (1 hr.) <sup>/1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>/2</sup>	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

02/10/2023

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Request No. LA66-R1002

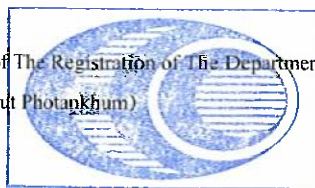
Report No. R6610-0030 - R6610-0032

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Nikhom Wittaya School  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 7874

SAMPLE NO. : 29414-29416  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
13:00 - 14:00 <sup>2</sup>	0.002	0.002	0.002	ppm
14:00 - 15:00	0.002	0.002	0.002	ppm
15:00 - 16:00	0.002	0.002	0.002	ppm
16:00 - 17:00	0.003	0.002	0.002	ppm
17:00 - 18:00	0.003	0.002	0.002	ppm
18:00 - 19:00	0.003	0.002	0.002	ppm
19:00 - 20:00	0.003	0.002	0.002	ppm
20:00 - 21:00	0.003	0.002	0.002	ppm
21:00 - 22:00	0.003	0.002	0.002	ppm
22:00 - 23:00	0.002	0.002	0.002	ppm
23:00 - 00:00	0.002	0.002	0.002	ppm
00:00 - 01:00	0.002	0.002	0.002	ppm
01:00 - 02:00	0.002	0.002	0.002	ppm
02:00 - 03:00	0.002	0.002	0.002	ppm
03:00 - 04:00	0.002	0.002	0.002	ppm
04:00 - 05:00	0.002	0.002	0.002	ppm
05:00 - 06:00	0.002	0.002	0.002	ppm
06:00 - 07:00	0.002	0.002	0.002	ppm
07:00 - 08:00	0.002	0.002	0.002	ppm
08:00 - 09:00	0.002	0.002	0.002	ppm
09:00 - 10:00	0.002	0.002	0.002	ppm
10:00 - 11:00	0.002	0.002	0.002	ppm
11:00 - 12:00	0.002	0.002	0.002	ppm
12:00 - 13:00	0.002	0.002	0.002	ppm
Maximum 1 hr.	0.003	0.002	0.002	ppm
Average 24 hr.	0.002	0.002	0.002	ppm
Standard (1 hr.) <sup>1</sup>	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

02/10/2023

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Request No. LA66-R100

Report No. R6610-0024 - R6610-002

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nihom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Map Kha Temple  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model M200E S/N 3999

SAMPLE NO. : 29408-29410  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
14:00 - 15:00 <sup>2</sup>	0.007	0.005	0.012	ppm
15:00 - 16:00	0.004	0.007	0.009	ppm
16:00 - 17:00	0.004	0.009	0.005	ppm
17:00 - 18:00	0.006	0.008	0.004	ppm
18:00 - 19:00	0.006	0.007	0.005	ppm
19:00 - 20:00	0.006	0.006	0.033	ppm
20:00 - 21:00	0.004	0.005	0.023	ppm
21:00 - 22:00	0.006	0.004	0.011	ppm
22:00 - 23:00	0.006	0.005	0.007	ppm
23:00 - 00:00	0.005	0.003	0.005	ppm
00:00 - 01:00	0.003	0.004	0.007	ppm
01:00 - 02:00	0.004	0.003	0.006	ppm
02:00 - 03:00	0.003	0.003	0.006	ppm
03:00 - 04:00	0.003	0.004	0.023	ppm
04:00 - 05:00	0.003	0.004	0.012	ppm
05:00 - 06:00	0.003	0.004	0.011	ppm
06:00 - 07:00	0.003	0.004	0.010	ppm
07:00 - 08:00	0.005	0.003	0.010	ppm
08:00 - 09:00	0.006	0.003	0.013	ppm
09:00 - 10:00	0.006	0.007	0.007	ppm
10:00 - 11:00	0.003	0.007	0.011	ppm
11:00 - 12:00	0.002	0.023	0.010	ppm
12:00 - 13:00	0.004	0.013	0.006	ppm
13:00 - 14:00	0.002	0.008	0.004	ppm
Maximum 1 hr.	0.007	0.023	0.033	ppm
Average 24 hr.	0.004	0.006	0.010	ppm
Standard (1 hr.) <sup>1</sup>	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)Approved By: 

(MS. THANATPORN KLINSOPON)

02/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA66-R1002

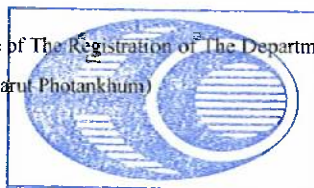
Report No. R6610-0018 - R6610-0020

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co., Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nihorn Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Ban Samnak Ai Ngong  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 2005

SAMPLE NO. : 29402-29404  
SAMPLING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME / DATE	25-26/09/2023	26-27/09/2023	27-28/09/2023	UNIT
15:00 - 16:00 <sup>1/2</sup>	0.003	0.004	0.004	ppm
16:00 - 17:00	0.003	0.005	0.004	ppm
17:00 - 18:00	0.003	0.005	0.004	ppm
18:00 - 19:00	0.004	0.005	0.004	ppm
19:00 - 20:00	0.004	0.004	0.004	ppm
20:00 - 21:00	0.004	0.004	0.004	ppm
21:00 - 22:00	0.004	0.004	0.004	ppm
22:00 - 23:00	0.004	0.004	0.004	ppm
23:00 - 00:00	0.004	0.004	0.004	ppm
00:00 - 01:00	0.004	0.004	0.004	ppm
01:00 - 02:00	0.004	0.004	0.004	ppm
02:00 - 03:00	0.004	0.004	0.004	ppm
03:00 - 04:00	0.004	0.004	0.004	ppm
04:00 - 05:00	0.004	0.004	0.004	ppm
05:00 - 06:00	0.004	0.004	0.004	ppm
06:00 - 07:00	0.004	0.004	0.004	ppm
07:00 - 08:00	0.004	0.004	0.004	ppm
08:00 - 09:00	0.004	0.004	0.003	ppm
09:00 - 10:00	0.004	0.004	0.004	ppm
10:00 - 11:00	0.004	0.004	0.004	ppm
11:00 - 12:00	0.004	0.003	0.004	ppm
12:00 - 13:00	0.004	0.003	0.004	ppm
13:00 - 14:00	0.004	0.003	0.003	ppm
14:00 - 15:00	0.004	0.003	0.003	ppm
Maximum 1 hr.	0.004	0.005	0.004	ppm
Average 24 hr.	0.004	0.004	0.004	ppm
Standard (1 hr.) <sup>1/</sup>	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)Approved By: 

(MS. THANATPORN KLINSOPON)

02/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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## Wind Speed & Wind Direction

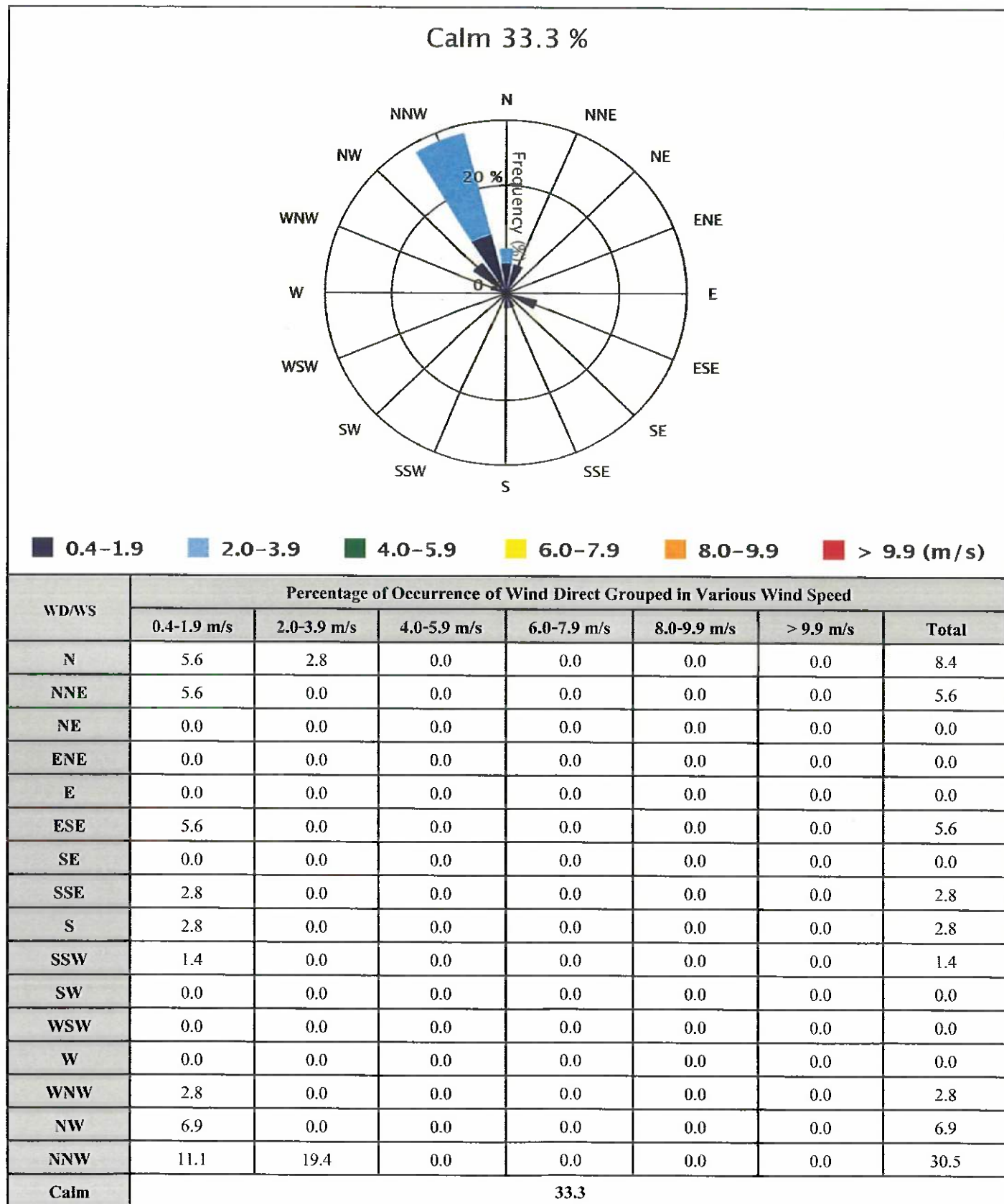
Request No. LA66-R1002

Egco Engineering & Service Co., Ltd.

Sample No. 29418

Sampling Source : Nikhom Wittaya School

Sampling Date : September 25-28, 2023





## Wind Speed &amp; Wind Direction

Request No. LA66-R1002

Egco Engineering &amp; Service Co., Ltd.

Sample No. 29418

Sampling Source : Nikhom Wittaya School

Sampling Date : September 25-28, 2023

Time	September 25-26, 2023		September 26-27, 2023		September 27-28, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
13:00-14:00	0.0	-	0.0	-	2.7	NNW
14:00-15:00	0.0	-	0.4	NNE	3.6	N
15:00-16:00	0.0	-	1.3	NNE	3.6	NNW
16:00-17:00	0.0	-	1.3	NNE	3.6	NNW
17:00-18:00	0.0	-	1.3	WNW	3.6	NNW
18:00-19:00	0.0	-	0.9	NW	3.1	NNW
19:00-20:00	0.0	-	0.9	NW	3.1	NNW
20:00-21:00	0.0	-	0.4	NW	2.7	N
21:00-22:00	0.0	-	0.9	NNW	2.2	NNW
22:00-23:00	0.0	-	1.3	NNW	2.7	NNW
23:00-00:00	0.0	-	0.4	N	2.7	NNW
00:00-01:00	0.0	-	0.4	ESE	2.2	NNW
01:00-02:00	0.0	-	0.4	ESE	2.7	NNW
02:00-03:00	0.4	SSE	0.4	ESE	2.2	NNW
03:00-04:00	0.4	SSE	0.4	ESE	1.8	NNW
04:00-05:00	0.4	S	0.0	-	1.3	N
05:00-06:00	0.0	-	0.0	-	1.8	NNW
06:00-07:00	0.0	-	0.0	-	1.8	NNW
07:00-08:00	0.0	-	0.4	SSW	2.2	NNW
08:00-09:00	0.0	-	0.0	-	2.2	NNW
09:00-10:00	0.4	NW	0.4	S	1.8	NNW
10:00-11:00	0.4	NNE	1.3	NNW	0.4	WNW
11:00-12:00	0.0	-	0.9	NW	0.4	N
12:00-13:00	0.0	-	1.3	NNW	0.9	N



## Wind Speed &amp; Wind Direction

Request No. LA66-R1002

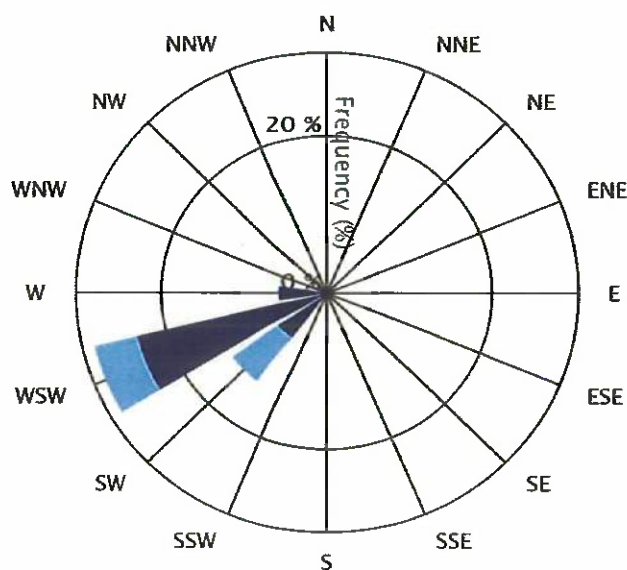
Egco Engineering &amp; Service Co., Ltd.

Sample No. 29419

Sampling Source : Map Kha Temple

Sampling Date : September 25-28, 2023

Calm 51.4 %


 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	6.9	6.9	0.0	0.0	0.0	0.0	13.8
WSW	23.6	5.6	0.0	0.0	0.0	0.0	29.2
W	5.6	0.0	0.0	0.0	0.0	0.0	5.6
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
Calm	51.4						

## Wind Speed &amp; Wind Direction

Request No. LA66-R1002

Egco Engineering &amp; Service Co., Ltd.

Sample No. 29419

Sampling Source : Map Kha Temple

Sampling Date : September 25-28, 2023

Time	September 25-26, 2023		September 26-27, 2023		September 27-28, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
14:00-15:00	0.0	-	0.9	WSW	2.2	SW
15:00-16:00	0.0	-	0.4	WSW	2.7	SW
16:00-17:00	0.0	-	0.0	-	2.7	SW
17:00-18:00	0.0	-	0.0	-	2.7	WSW
18:00-19:00	0.0	-	0.0	-	2.2	WSW
19:00-20:00	0.0	-	0.0	-	2.2	WSW
20:00-21:00	0.0	-	0.0	-	1.8	WSW
21:00-22:00	0.0	-	1.3	WSW	1.8	SW
22:00-23:00	0.0	-	0.9	WSW	1.8	WSW
23:00-00:00	0.0	-	0.0	-	2.2	SW
00:00-01:00	0.0	-	0.4	W	2.2	SW
01:00-02:00	0.0	-	0.0	-	1.8	WSW
02:00-03:00	0.0	-	0.0	-	1.8	WSW
03:00-04:00	0.0	-	0.0	-	1.3	WSW
04:00-05:00	0.0	-	0.0	-	1.3	WSW
05:00-06:00	0.0	-	0.0	-	0.9	WSW
06:00-07:00	0.0	-	0.0	-	0.9	WSW
07:00-08:00	0.0	-	0.0	-	0.9	WSW
08:00-09:00	0.0	-	0.0	-	0.9	WSW
09:00-10:00	0.9	W	0.0	-	0.9	SW
10:00-11:00	0.0	-	0.4	WSW	0.9	SW
11:00-12:00	0.0	-	0.0	-	0.9	SW
12:00-13:00	0.4	W	1.3	WSW	0.9	SW
13:00-14:00	0.9	W	2.2	WSW	0.9	WSW

## Wind Speed & Wind Direction

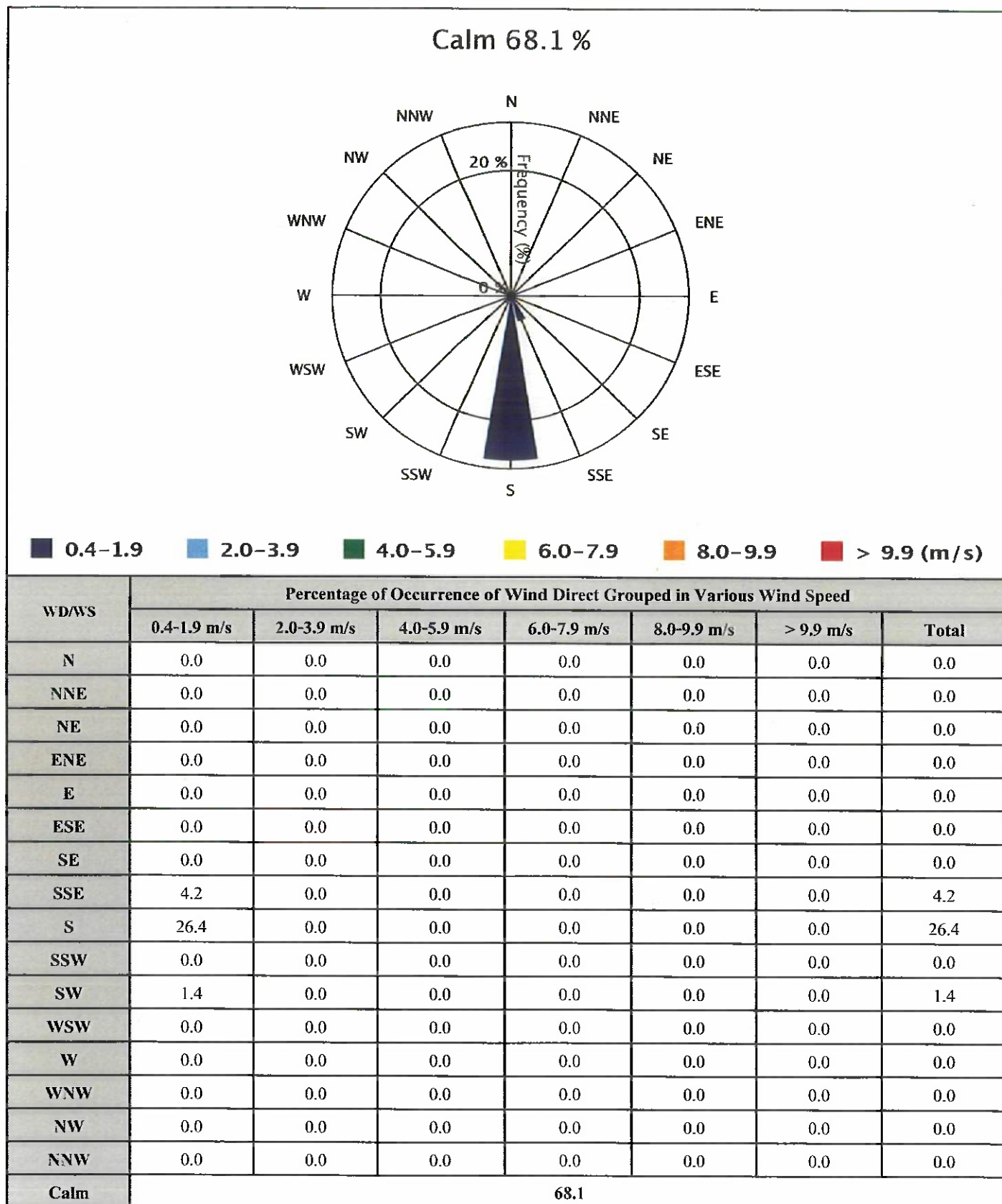
Request No. LA66-R1002

Egco Engineering & Service Co., Ltd.

Sample No. 29417

Sampling Source : Ban Samnak Ai Ngong

Sampling Date : September 25-28, 2023



## Wind Speed &amp; Wind Direction

Request No. LA66-R1002

Egco Engineering &amp; Service Co., Ltd.

Sample No. 29417

Sampling Source : Ban Samnak Ai Ngon

Sampling Date : September 25-28, 2023

Time	September 25-26, 2023		September 26-27, 2023		September 27-28, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
15:00-16:00	0.0	-	0.4	S	0.0	-
16:00-17:00	0.0	-	0.4	S	0.0	-
17:00-18:00	0.0	-	0.0	-	0.4	SSE
18:00-19:00	0.0	-	0.0	-	0.9	S
19:00-20:00	0.0	-	0.0	-	0.4	S
20:00-21:00	0.0	-	0.0	-	0.4	SW
21:00-22:00	0.0	-	0.0	-	0.4	S
22:00-23:00	0.0	-	0.0	-	0.4	S
23:00-00:00	0.0	-	0.0	-	0.4	S
00:00-01:00	0.0	-	0.0	-	0.4	S
01:00-02:00	0.0	-	0.0	-	0.4	S
02:00-03:00	0.0	-	0.0	-	0.4	S
03:00-04:00	0.0	-	0.0	-	0.0	-
04:00-05:00	0.0	-	0.0	-	0.0	-
05:00-06:00	0.0	-	0.0	-	0.4	SSE
06:00-07:00	0.0	-	0.0	-	0.4	S
07:00-08:00	0.0	-	0.0	-	0.4	S
08:00-09:00	0.0	-	0.0	-	0.4	S
09:00-10:00	0.0	-	0.4	SSE	0.9	S
10:00-11:00	0.0	-	0.4	S	1.3	S
11:00-12:00	0.0	-	0.0	-	0.4	S
12:00-13:00	0.0	-	0.0	-	0.0	-
13:00-14:00	0.0	-	0.0	-	0.0	-
14:00-15:00	0.4	S	0.0	-	0.4	S

Request No. LA66-R1002

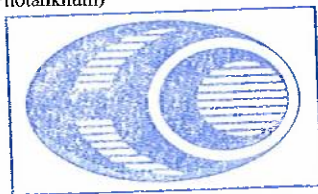
Report No. R6610-0005 -R6610-0007

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Within The Power Plant  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr., &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G300957 : Class 2

SAMPLE NO. : 29390-29392  
MEASURING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME \ DATE	25-26/09/2023 ( $L_{eq}$ )	26-27/09/2023 ( $L_{eq}$ )	27-28/09/2023 ( $L_{eq}$ )	UNIT
14:00 - 15:00 <sup>13</sup>	67.4	67.5	67.9	dB(A)
15:00 - 16:00	67.1	67.0	67.6	dB(A)
16:00 - 17:00	66.6	67.1	67.4	dB(A)
17:00 - 18:00	67.9	68.0	68.1	dB(A)
18:00 - 19:00	70.0	70.2	70.6	dB(A)
19:00 - 20:00	67.0	66.9	67.3	dB(A)
20:00 - 21:00	67.3	68.0	67.5	dB(A)
21:00 - 22:00	67.0	67.7	67.4	dB(A)
22:00 - 23:00	67.1	67.1	67.7	dB(A)
23:00 - 00:00	67.0	67.6	67.5	dB(A)
00:00 - 01:00	67.0	66.9	67.3	dB(A)
01:00 - 02:00	67.1	67.2	67.1	dB(A)
02:00 - 03:00	67.2	67.1	66.9	dB(A)
03:00 - 04:00	67.1	66.7	66.9	dB(A)
04:00 - 05:00	67.7	67.2	67.5	dB(A)
05:00 - 06:00	68.5	68.2	68.2	dB(A)
06:00 - 07:00	67.0	67.0	67.1	dB(A)
07:00 - 08:00	67.0	66.9	67.0	dB(A)
08:00 - 09:00	68.4	67.1	67.3	dB(A)
09:00 - 10:00	67.4	67.8	67.1	dB(A)
10:00 - 11:00	67.1	67.4	67.1	dB(A)
11:00 - 12:00	66.9	67.5	66.9	dB(A)
12:00 - 13:00	68.5	67.0	66.3	dB(A)
13:00 - 14:00	67.9	67.5	66.4	dB(A)
$L_{eq}$ 24 hr.	67.5	67.5	67.5	dB(A)
$L_{dn}$	73.8	73.7	73.8	dB(A)
Standard	$70^{11}, 70^{12}$	$70^{11}, 70^{12}$	$70^{11}, 70^{12}$	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\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์น ไทย คอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/10/2023

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



Request No. LA66-R1002

Report No. R6610-0002 -R6610-0004

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhorn Pattana, Rayong 21180  
SAMPLE SOURCE : Egco Cogen Power Plant  
SAMPLE POINT : Ban Nong Hin  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr., &  $L_{dn}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N 090087 : Class 2

SAMPLE NO. : 29387-29389  
MEASURING DATE : 25-28/09/2023  
RECEIVED DATE : 28/09/2023  
REPORTED DATE : 02/10/2023

TIME \ DATE	25-26/09/2023 ( $L_{eq}$ )	26-27/09/2023 ( $L_{eq}$ )	27-28/09/2023 ( $L_{eq}$ )	UNIT
13:00 - 14:00 <sup>13</sup>	55.3	54.8	49.4	dB(A)
14:00 - 15:00	55.7	50.0	50.2	dB(A)
15:00 - 16:00	55.8	48.5	51.2	dB(A)
16:00 - 17:00	53.5	50.1	57.0	dB(A)
17:00 - 18:00	52.3	49.7	59.7	dB(A)
18:00 - 19:00	54.1	50.5	61.2	dB(A)
19:00 - 20:00	49.1	51.6	65.6	dB(A)
20:00 - 21:00	49.6	59.2	64.1	dB(A)
21:00 - 22:00	48.5	60.3	63.8	dB(A)
22:00 - 23:00	49.3	63.3	65.9	dB(A)
23:00 - 00:00	50.2	66.2	62.8	dB(A)
00:00 - 01:00	51.5	65.9	64.8	dB(A)
01:00 - 02:00	51.2	64.5	58.8	dB(A)
02:00 - 03:00	52.8	65.3	58.6	dB(A)
03:00 - 04:00	60.3	65.9	59.4	dB(A)
04:00 - 05:00	63.1	66.6	60.4	dB(A)
05:00 - 06:00	63.5	62.8	59.7	dB(A)
06:00 - 07:00	64.5	59.3	54.3	dB(A)
07:00 - 08:00	63.6	58.0	53.1	dB(A)
08:00 - 09:00	64.2	60.6	50.5	dB(A)
09:00 - 10:00	63.4	61.9	50.8	dB(A)
10:00 - 11:00	64.8	54.7	51.5	dB(A)
11:00 - 12:00	66.4	51.9	52.1	dB(A)
12:00 - 13:00	65.5	49.2	52.2	dB(A)
$L_{eq}$ 24 hr.	60.8	61.6	60.4	dB(A)
$L_{dn}$	66.5	70.7	67.9	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>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

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/10/2023

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Request No. LA66-R1002

Report No. R6610-0008 -R6610-0010

## TEST REPORT

CUSTOMER : Egco Engineering &amp; Service Co.,Ltd.

ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180

SAMPLE SOURCE : Egco Cogen Power Plant

SAMPLE POINT : Map Kha Temple

PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr., &  $L_{dn}$ 

DETERMINATION METHOD : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N G301607 : Class 2

SAMPLE NO. : 29393-29395

MEASURING DATE : 25-28/09/2023

RECEIVED DATE : 28/09/2023

REPORTED DATE : 02/10/2023

TIME \ DATE	25-26/09/2023 ( $L_{eq}$ )	26-27/09/2023 ( $L_{eq}$ )	27-28/09/2023 ( $L_{eq}$ )	UNIT
15:00 - 16:00 <sup>3</sup>	59.3	52.7	53.4	dB(A)
16:00 - 17:00	63.3	51.7	53.5	dB(A)
17:00 - 18:00	55.7	50.4	53.1	dB(A)
18:00 - 19:00	49.0	48.8	48.5	dB(A)
19:00 - 20:00	48.0	47.8	48.2	dB(A)
20:00 - 21:00	47.5	48.7	47.3	dB(A)
21:00 - 22:00	47.3	47.2	47.6	dB(A)
22:00 - 23:00	46.8	48.5	47.2	dB(A)
23:00 - 00:00	46.8	49.4	46.5	dB(A)
00:00 - 01:00	46.0	48.3	46.4	dB(A)
01:00 - 02:00	46.2	48.2	45.9	dB(A)
02:00 - 03:00	53.3	46.7	46.0	dB(A)
03:00 - 04:00	47.5	48.2	46.8	dB(A)
04:00 - 05:00	47.8	47.4	46.9	dB(A)
05:00 - 06:00	50.2	48.3	49.2	dB(A)
06:00 - 07:00	53.4	51.5	55.3	dB(A)
07:00 - 08:00	54.3	54.1	51.5	dB(A)
08:00 - 09:00	62.9	52.5	51.4	dB(A)
09:00 - 10:00	56.8	53.6	49.7	dB(A)
10:00 - 11:00	56.4	52.2	50.6	dB(A)
11:00 - 12:00	55.5	51.8	54.7	dB(A)
12:00 - 13:00	58.2	53.8	49.8	dB(A)
13:00 - 14:00	52.7	54.6	54.8	dB(A)
14:00 - 15:00	51.1	56.9	52.1	dB(A)
$L_{eq}$ 24 hr.	55.7	51.5	50.9	dB(A)
$L_{dn}$	58.3	55.9	56.0	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>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\* 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)

02/10/2023

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Request No. LA66-R1002

Report No. R6610-0011 -R6610-0013

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Cogen Power Plant  
 SAMPLE POINT : Ban Nong Khla  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr., &  $L_{dn}$   
 DETERMINATION METHOD : ISO 1996-1:2016  
 INSTRUMENT : Integrated Sound Level Meter  
 S/N 00209072 : Class 2

SAMPLE NO. : 29396-29398  
 MEASURING DATE : 25-28/09/2023  
 RECEIVED DATE : 28/09/2023  
 REPORTED DATE : 02/10/2023

TIME \ DATE	25-26/09/2023 ( $L_{eq}$ )	26-27/09/2023 ( $L_{eq}$ )	27-28/09/2023 ( $L_{eq}$ )	UNIT
14:00 - 15:00 <sup>3</sup>	55.3	55.6	54.7	dB(A)
15:00 - 16:00	55.8	54.6	55.0	dB(A)
16:00 - 17:00	62.5	60.0	56.8	dB(A)
17:00 - 18:00	55.1	55.8	55.5	dB(A)
18:00 - 19:00	55.6	55.7	54.7	dB(A)
19:00 - 20:00	53.7	55.3	58.5	dB(A)
20:00 - 21:00	53.0	66.1	54.0	dB(A)
21:00 - 22:00	52.2	50.6	58.8	dB(A)
22:00 - 23:00	51.5	58.5	48.1	dB(A)
23:00 - 00:00	52.7	53.0	45.8	dB(A)
00:00 - 01:00	52.2	50.9	60.3	dB(A)
01:00 - 02:00	52.0	49.4	51.1	dB(A)
02:00 - 03:00	54.8	48.4	44.9	dB(A)
03:00 - 04:00	54.7	49.9	44.9	dB(A)
04:00 - 05:00	54.7	53.0	49.5	dB(A)
05:00 - 06:00	57.5	58.8	52.0	dB(A)
06:00 - 07:00	58.6	58.9	64.0	dB(A)
07:00 - 08:00	61.5	57.5	57.9	dB(A)
08:00 - 09:00	66.7	55.5	57.7	dB(A)
09:00 - 10:00	57.7	55.3	54.1	dB(A)
10:00 - 11:00	62.9	54.2	55.1	dB(A)
11:00 - 12:00	55.8	55.3	55.4	dB(A)
12:00 - 13:00	52.3	55.1	55.2	dB(A)
13:00 - 14:00	56.2	54.5	55.1	dB(A)
$L_{eq}$ 24 hr.	58.3	57.1	56.4	dB(A)
$L_{dn}$	62.4	62.2	63.0	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>2</sup>	70 <sup>1</sup> , 70 <sup>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\* 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)

02/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6607405

Report No : 6608-0270

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน\*\*

Sample No : W 66071496

Sample Name : Waste Water Inlet\*\*

Sampling Date : 14/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:50 AM\*\*

Sampling Method : Grab\*\*

Received Date : 15/07/2023

Tested Date : 17/07/2023 - 26/07/2023

Reported Date : 03/08/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.1
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	54
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	8.0
Temperature *	°C	Laboratory and Field Method	34
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	2,136

Physical Apperance : 1. Sample : yellowish, turbid

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

Remark : 1. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (7-003-0-5637)\*

4. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(7-003-0-4377)

03/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(7-003-0-4367)

03/08/2023

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

## Test Report

Request No : W6607405

Report No : 6608-0270

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อําเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น

Sample No : W 66071496

Sample Name : Waste Water Inlet

Sampling Date : 14/07/2023

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 15/07/2023

Tested Date : 17/07/2023 - 26/07/2023

Reported Date : 03/08/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	2,242

Physical Apperance : 1. Sample : yellowish, turbid

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Mr. Supharek Phatklang (1-003-จิ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

03/08/2023

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

## Test Report

Request No : W6608400

Report No : 6608-2347

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โดเจน\*\*

Sample No : W 66081338

Sample Name : Waste Water Inlet\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand <sup>#</sup>	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand <sup>#</sup>	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	44
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	8.2
Temperature *	°C	Laboratory and Field Method	36
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 C (SM:2540C)	988

Physical Appearance : 1. Sample : lightly SS

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

Remark : 1. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (1-003-ก-0017)\*

4. \*\* = These data are non laboratory data.

Examined By : 

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

30/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)

(1-003-ก-4367)

30/08/2023

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

## Test Report

Request No : W6608400

Report No : 6608-2347

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66081338

Sample Name : Waste Water Inlet

Sampling Date : 16/08/2023

Sampling By : ETC

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	1,052

Physical Apperance : 1. Sample : lightly SS

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


Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Mr. Parkpoom Buasawad



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

30/08/2023

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



## Test Report

Request No : W6609436

Report No : 6609-2003

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน\*\*

Sample No : W 66091601

Sample Name : Waste Water Inlet\*\*

Sampling Date : 15/09/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/09/2023

Tested Date : 16/09/2023 - 23/09/2023

Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	5.9
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	8.6
Temperature *	°C	Laboratory and Field Method	31
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	2,128

Physical Apperance : 1. Sample : yellow, lightly SS

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

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ค-0036)\*

4. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

27/09/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

27/09/2023

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

## Test Report

Request No : W6609436

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Report No : 6609-2003

Address : 222 หมู่ 8 ตำบลมาบข่า อําเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66091601

Sample Name : Waste Water Inlet

Sampling Date : 15/09/2023

Sampling By : ETC

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 16/09/2023

Tested Date : 16/09/2023 - 23/09/2023

Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	2,268

Physical Apperance : 1. Sample : yellow, lightly SS

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Miss Pornpinan Viriyakusolkul



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By : 

(Miss Apiradee Chuen-arom)

27/09/2023

## Test Report

Request No : W6610493

Report No : 6611-0499

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมน้ำจืด จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น\*\*

Sample No : W 66101751

Sample Name : Waste Water Inlet\*\*

Sampling Date : 19/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:45 AM\*\*

Sampling Method : Grab\*\*

Received Date : 20/10/2023

Tested Date : 20/10/2023 - 07/11/2023

Reported Date : 08/11/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand <sup>#</sup>	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand <sup>#</sup>	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40
Oil and Grease <sup>@</sup>	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) <sup>*</sup>		Electrometric Method	7.7
Temperature <sup>*</sup>	°C	Laboratory and Field Method	30
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 degree celsius (SM:2540C)	938

Physical Appearance : 1. Sample : lightly SS

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

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (1-003-ก-0016)\*

4. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(1-003-ก-0007)

08/11/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(1-003-ก-0004)

08/11/2023

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

## Test Report

Request No : W6610493

Report No : 6611-0499

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน

Sample No : W 66101751

Sample Name : Waste Water Inlet

Sampling Date : 19/10/2023

Sampling By : ETC

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 20/10/2023

Tested Date : 20/10/2023 - 07/11/2023

Reported Date : 08/11/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	992

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

08/11/2023

## Test Report

Request No : W6611432

Report No : 6611-2002

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน\*\*

Sample No : W 66111450

Sample Name : Waste Water Inlet\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 10:50 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	7.6
Temperature *	°C	Laboratory and Field Method	35
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,002

Physical Appearance : 1. Sample : yellowish, lightly SS

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

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ก-0031)\*

4. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

27/11/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

27/11/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6611432

Report No : 6611-2002

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66111450

Sample Name : Waste Water Inlet

Sampling Date : 15/11/2023

Sampling By : ETC

Sampling Time : 10:50 AM

Sampling Method : Grab

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	1,072

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Mr. Supharerk Phatklang



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/11/2023



## Test Report

Request No : W6612379

Report No : 6701-0033

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน\*\*

Sample No : W 66121228

Sample Name : Waste Water Inlet\*\*

Sampling Date : 13/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 11:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 14/12/2023

Tested Date : 14/12/2023 - 26/12/2023

Reported Date : 03/01/2024

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	8.4
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,064

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-0016)\*\*

4. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

03/01/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(จ-003-ก-0004)

03/01/2024

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

Request No : W6612379

Report No : 6701-0033

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66121228

Sample Name : Waste Water Inlet

Sampling Date : 13/12/2023

Sampling By : ETC

Sampling Time : 11:30 AM

Sampling Method : Grab

Received Date : 14/12/2023

Tested Date : 14/12/2023 - 26/12/2023

Reported Date : 03/01/2024

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	1,076

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

3. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

03/01/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6607405

Report No : 6608-0271

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบ่า อำเภอนิคมน้ำจืด จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้า เอ็กโก โกลด์\*\*

Sample No : W 66071497

Sample Name : Waste Water Outlet\*\*

Sampling Date : 14/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:45 AM\*\*

Sampling Method : Grab\*\*

Received Date : 15/07/2023

Tested Date : 17/07/2023 - 26/07/2023

Reported Date : 03/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	48	≤120
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) *		Electrometric Method	8.3	5.5-9.0
Temperature *	°C	Laboratory and Field Method	34	≤40
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	740	≤3000

Physical Appearance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-0-5637)\*

5. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-0-4377)

03/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(จ-003-0-4367)

03/08/2023

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

## Test Report

Request No : W6607405

Report No : 6608-0271

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66071497

Sample Name : Waste Water Outlet

Sampling Date : 14/07/2023

Sampling By : ETC

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 15/07/2023

Tested Date : 17/07/2023 - 26/07/2023

Reported Date : 03/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	751	-

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Mr. Supharek Phatklang (T-003-ก-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

03/08/2023

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

## Test Report

Request No : W6608400

Report No : 6608-2348

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอเนินกมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน\*\*

Sample No : W 66081339

Sample Name : Waste Water Outlet\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:25 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤120
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) *		Electrometric Method	8.6	5.5-9.0
Temperature *	°C	Laboratory and Field Method	34	≤40
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	758	≤3000

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ก-0017)\*

5. \*\* = These data are non laboratory data.

Examined By : 

(Miss Apiradee Chuen-arom)  
(ว-003-ก-0007)  
30/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)  
(ว-003-ก-0005)  
30/08/2023

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

## Test Report

Request No : W6608400

Report No : 6608-2348

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเจน

Sample No : W 66081339

Sample Name : Waste Water Outlet

Sampling Date : 16/08/2023

Sampling By : ETC

Sampling Time : 9:25 AM

Sampling Method : Grab

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	788	-

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. /I Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Mr. Parkpoom Buasawad



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

30/08/2023

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



## Test Report

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*  
Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*  
Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น\*\*  
Sample Name : Waste Water Outlet\*\*  
Sampling By : ETC\*\*  
Sampling Method : Grab\*\*  
Tested Date : 16/09/2023 - 23/09/2023

Request No : W6609436  
Report No : 6609-2004  
Sample No : W 66091602  
Sampling Date : 15/09/2023\*\*  
Sampling Time : 9:25 AM\*\*  
Received Date : 16/09/2023  
Reported Date : 27/09/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤120
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) *		Electrometric Method	8.4	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤40
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	712	≤3000

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)


2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.


3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pormpinan Viriyakusolkul (1-003-ก-0036)\*

5. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(1-003-ก-0007)  
27/09/2023



Approved By :   
(Miss Nunnaphat Bakhuntod)  
(1-003-ก-0005)  
27/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
REPORTED TEST RESULT TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6609436

Report No : 6609-2004

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลนาบ่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66091602

Sample Name : Waste Water Outlet

Sampling Date : 15/09/2023

Sampling By : ETC

Sampling Time : 9:25 AM

Sampling Method : Grab

Received Date : 16/09/2023

Tested Date : 16/09/2023 - 23/09/2023

Reported Date : 27/09/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	772	-

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Miss Pornpinan Viriyakusolkul



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/09/2023

## Test Report

Request No : W6610493

Report No : 6611-0500

Customer : บริษัท เอ็กโก เอ็นจิเนียริ่ง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น\*\*

Sample No : W 66101752

Sample Name : Waste Water Outlet\*\*

Sampling Date : 19/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:35 AM\*\*

Sampling Method : Grab\*\*

Received Date : 20/10/2023

Tested Date : 20/10/2023 - 07/11/2023

Reported Date : 08/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand <sup>#</sup>	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤20
Chemical Oxygen Demand <sup>#</sup>	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤120
Oil and Grease <sup>@</sup>	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) *		Electrometric Method	8.4	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤40
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 degree celsius (SM:2540C)	636	≤3000

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISL, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (1-003-ก-0016)\*

5. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(1-003-ก-0007)

08/11/2023



Approved By : .....

(Mr. Kawee Suthasub)

(1-003-ก-0004)

08/11/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด  
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6610493

Report No : 6611-0500

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น

Sample No : W 66101752

Sample Name : Waste Water Outlet

Sampling Date : 19/10/2023

Sampling By : ETC

Sampling Time : 9:35 AM

Sampling Method : Grab

Received Date : 20/10/2023

Tested Date : 20/10/2023 - 07/11/2023

Reported Date : 08/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	688	-

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

08/11/2023

## Test Report

Request No : W6611432

Report No : 6611-2003

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน\*\*

Sample No : W 66111451

Sample Name : Waste Water Outlet\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 10:40 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 27/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand <sup>#</sup>	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.3	≤20
Chemical Oxygen Demand <sup>#</sup>	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	43	≤120
Oil and Grease <sup>@</sup>	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) <sup>*</sup>		Electrometric Method	7.8	5.5-9.0
Temperature <sup>*</sup>	°C	Laboratory and Field Method	31	≤40
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 degree celsius (SM:2540C)	2,024	≤3000

Physical Appearance : 1. Sample : greenish, turbid

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

Remark : 1. / I Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ก-0031)\*

5. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ก-0007)

27/11/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(จ-003-ก-0005)

27/11/2023

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

## Test Report

Request No : W6611432

Report No : 6611-2003

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น

Sample No : W 66111451

Sample Name : Waste Water Outlet

Sampling Date : 15/11/2023

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 27/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	2,170	-

Physical Apperance : 1. Sample : greenish, turbid

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

Remark : 1. / I Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Mr. Supharerk Phatklang



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By : .....

(Miss Apiradee Chuen-arom)

27/11/2023



## Test Report

Request No : W6612379

Report No : 6701-0034

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด\*\*

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมน้ำจืด จังหวัดระยอง 21180\*\*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น\*\*

Sample No : W 66121229

Sample Name : Waste Water Outlet\*\*

Sampling Date : 13/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 11:25 AM\*\*

Sampling Method : Grab\*\*

Received Date : 14/12/2023

Tested Date : 14/12/2023 - 26/12/2023

Reported Date : 03/01/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand <sup>#</sup>	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.9	≤20
Chemical Oxygen Demand <sup>#</sup>	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	<40	≤120
Oil and Grease <sup>@</sup>	mg/L	Partition-Gravimetric Method (SM:5520B)	<3.0	≤5
pH (on site) <sup>*</sup>		Electrometric Method	8.2	5.5-9.0
Temperature <sup>*</sup>	°C	Laboratory and Field Method	32	≤40
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 degree celsius (SM:2540C)	1,924	≤3000

Physical Appearance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-0016)\*

5. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

03/01/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(จ-003-ก-0004)

03/01/2024

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

## Test Report

Request No : W6612379

Report No : 6701-0034

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66121229

Sample Name : Waste Water Outlet

Sampling Date : 13/12/2023

Sampling By : ETC

Sampling Time : 11:25 AM

Sampling Method : Grab

Received Date : 14/12/2023

Tested Date : 14/12/2023 - 26/12/2023

Reported Date : 03/01/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Solids	mg/L	Dried at 103-105 degree celsius (SM:2540B)	1,976	-

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)


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

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Mr. Songpon Phiwan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

  
 Examined By : .....

(Miss Apiradee Chuen-arom)

03/01/2024

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

Request No. LA66-R0859

Report No. R6608-5443

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.  
 SAMPLE POINT : Water Treatment System Control Room  
 PARAMETER\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 26609  
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2023  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/08/2023  
 S/N 00322745 : Class 2 REPORTED DATE : 25/08/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:10-10:10	63	63	dB(A)
10:10-11:10	63	63	dB(A)
11:10-12:10	62	62	dB(A)
12:10-13:10	62	62	dB(A)
13:10-14:10	63	63	dB(A)
14:10-15:10	64	64	dB(A)
15:10-16:10	63	63	dB(A)
16:10-17:10	63	63	dB(A)
$L_{eq}$ 8 hr. (TWA)	62*	62**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** <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)

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

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

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

(Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

25/08/2023

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

**TEST REPORT**

CUSTOMER : Egco Engineering & Service Co.,Ltd.\*\*\*  
ADDRESS : 222 Moo 8 T. Map kha A. Nihom Pattana, Rayong 21180\*\*\*  
SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.\*\*\*  
SAMPLE POINT : Water Treatment System Control Room\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 33733  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/11/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/11/2023  
S/N 00222594 : Class 2 REPORTED DATE : 25/11/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:00-10:00	62	62	dB(A)
10:00-11:00	66	66	dB(A)
11:00-12:00	63	63	dB(A)
12:00-13:00	62	62	dB(A)
13:00-14:00	61	61	dB(A)
14:00-15:00	62	62	dB(A)
15:00-16:00	62	62	dB(A)
16:00-17:00	61	61	dB(A)
$L_{eq}$ 8 hr. (TWA)	62*	62**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## 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)

\* 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)

25/11/2023

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Request No. LA66-R0859

Report No. R6608-5446

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.  
 SAMPLE POINT : Control Room  
 PARAMETER\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 26612  
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2023  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/08/2023  
 S/N 00322752 : Class 2 REPORTED DATE : 25/08/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:15-10:15	61	61	dB(A)
10:15-11:15	64	64	dB(A)
11:15-12:15	64	64	dB(A)
12:15-13:15	61	61	dB(A)
13:15-14:15	61	61	dB(A)
14:15-15:15	64	64	dB(A)
15:15-16:15	64	64	dB(A)
16:15-17:15	62	62	dB(A)
$L_{eq}$ 8 hr. (TWA)	62*	62**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** <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)

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

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

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

(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/08/2023

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**TEST REPORT**

CUSTOMER : Egco Engineering & Service Co.,Ltd.\*\*\*  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana. Rayong 21180\*\*\*  
SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.\*\*\*  
SAMPLE POINT : Control Room\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 33735  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/11/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/11/2023  
S/N 00322752 : Class 2 REPORTED DATE : 25/11/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:10-10:10	67	67	dB(A)
10:10-11:10	63	63	dB(A)
11:10-12:10	62	62	dB(A)
12:10-13:10	58	58	dB(A)
13:10-14:10	59	59	dB(A)
14:10-15:10	60	60	dB(A)
15:10-16:10	64	64	dB(A)
16:10-17:10	63	63	dB(A)
$L_{eq}$ 8 hr. (TWA)	62*	62**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## 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)

\* 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 Khinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

25/11/2023

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Request No. LA66-R0859

Report No. R6608-5444

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.  
 SAMPLE POINT : Maintenance Section Room  
 PARAMETER\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 26610  
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2023  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/08/2023  
 S/N 00222594 : Class 2 REPORTED DATE : 25/08/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
08:55-09:55	48	48	dB(A)
09:55-10:55	51	51	dB(A)
10:55-11:55	48	48	dB(A)
11:55-12:55	51	51	dB(A)
12:55-13:55	57	57	dB(A)
13:55-14:55	51	51	dB(A)
14:55-15:55	47	47	dB(A)
15:55-16:55	48	48	dB(A)
$L_{eq}$ 8 hr. (TWA)	51*	50**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** <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)

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

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

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

(Measurement By Ms. Pornnapha Phongphet)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/08/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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**TEST REPORT**

CUSTOMER : Egco Engineering & Service Co.,Ltd.\*\*\*  
ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180\*\*\*  
SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.\*\*\*  
SAMPLE POINT : Maintenance Section Room\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 33734  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/11/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/11/2023  
S/N 00222593 : Class 2 REPORTED DATE : 25/11/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
08:20-09:20	58	58	dB(A)
09:20-10:20	48	48	dB(A)
10:20-11:20	55	55	dB(A)
11:20-12:20	51	51	dB(A)
12:20-13:20	46	46	dB(A)
13:20-14:20	47	47	dB(A)
14:20-15:20	50	50	dB(A)
15:20-16:20	51	51	dB(A)
$L_{eq}$ 8 hr. (TWA)	52*	51**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## 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)

\* 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. Thanaporn Klinsopon is Section Head Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/11/2023

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Request No. LA66-R0859

Report No. R6608-5445

## TEST REPORT

CUSTOMER : Egco Engineering & Service Co.,Ltd.  
 ADDRESS : 222 Moo 8 T. Map kha A. Nikhom Pattana, Rayong 21180  
 SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.  
 SAMPLE POINT : Workshop  
 PARAMETER\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 26611  
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 21/08/2023  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/08/2023  
 S/N 00222592 : Class 2 REPORTED DATE : 25/08/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:00-10:00	55	55	dB(A)
10:00-11:00	51	51	dB(A)
11:00-12:00	56	56	dB(A)
12:00-13:00	45	45	dB(A)
13:00-14:00	49	49	dB(A)
14:00-15:00	53	53	dB(A)
15:00-16:00	50	50	dB(A)
16:00-17:00	48	48	dB(A)
$L_{eq}$ 8 hr. (TWA)	52*	51**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** <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)

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

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

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

(Measurement By Ms. Pornnapha Phongphet)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/08/2023

**TEST REPORT**

CUSTOMER : Egco Engineering & Service Co.,Ltd.\*\*\*  
ADDRESS : 222 Moo 8 T. Map kha A. Nihom Pattana, Rayong 21180\*\*\*  
SAMPLE SOURCE : Egco Engineering & Service Co.,Ltd.\*\*\*  
SAMPLE POINT : Workshop\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 33732  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/11/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/11/2023  
S/N 00322754 : Class 2 REPORTED DATE : 25/11/2023

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
08:30-09:30	55	55	dB(A)
09:30-10:30	55	55	dB(A)
10:30-11:30	56	56	dB(A)
11:30-12:30	48	48	dB(A)
12:30-13:30	59	59	dB(A)
13:30-14:30	49	49	dB(A)
14:30-15:30	50	50	dB(A)
15:30-16:30	50	50	dB(A)
$L_{eq}$ 8 hr. (TWA)	54*	53**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## 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)

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

(Measurement By Ms. Pornnapa Phongphet)



Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

25/11/2023

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