

Request No. LA66-0325

Report No. 6603-0229

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

SAMPLE NO. : 00817-00819

SAMPLING DATE : 13/03/2023

SAMPLING TIME : 14:40-15:15

RECEIVED DATE : 16/03/2023

REPORTED DATE : 24/03/2023

TESTED DATE : 16-22/03/2023

STACK DESCRIPTION

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	104.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	15.27	m/s	Oxygen Content :	14.96 %
Flow rate ⁴ :	117.94	m ³ /s	Barometric Pressure :	758.50 mm.Hg
Moisture Content :	6.42	%	Atmospheric Temperature :	33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ⁴		STD	UNIT
			14.96 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	14:40-15:10	0.8	1.9	54 ¹ , 60 ²	mg/m ³
(TSP)			0.0944	-	4.57 ¹	g/s
Oxides of Nitrogen	Chemical Absorption, Colorimetric	15:10-15:15	71.6	167.5	-	mg/m ³
(NO _x as NO ₂)			38.1	89.2	100 ¹ , 120 ²	ppm
			8.4445	-	20.71 ¹	g/s
Carbon monoxide	Bag, Non Dispersive Infrared	14:50-15:00	2.2	5.1	790 ³	mg/m ³
(CO)			1.9	4.4	690 ³	ppm
			0.2595	-	-	g/s

REMARK:

¹ มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ² NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2547 (2004)³ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)⁴ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ก-5620)

Examined By.....

(MISS APIRADEE CHUEN-ARON)

(ว-003-ก-4377)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

24/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0325

Report No. 6603-0230

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 : Power Plant Stack (HRSG#12)

SAMPLE NO. : 00820-00822

SAMPLING DATE : 13/03/2023

SAMPLING TIME : 13:35-14:05

RECEIVED DATE : 16/03/2023

REPORTED DATE : 24/03/2023

TESTED DATE : 16-22/03/2023

STACK DESCRIPTION

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	103.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	15.74	m/s	Oxygen Content :	14.90 %
Flow rate ⁴ :	122.21	m ³ /s	Barometric Pressure :	758.50 mm.Hg
Moisture Content :	6.16	%	Atmospheric Temperature :	32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ⁴		STD	UNIT
			14.90 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	13:35-14:05	0.3	0.7	54 ¹ , 60 ²	mg/m ³
(TSP)			0.0367	-	4.57 ¹	g/s
Oxides of Nitrogen	Chemical Absorption, Colorimetric	14:00-14:05	57.8	133.9	-	mg/m ³
(NO _x as NO ₂)			30.7	71.1	100 ¹ , 120 ²	ppm
			7.0637	-	20.71 ¹	g/s
Carbon monoxide	Bag, Non Dispersive Infrared	13:40-13:50	2.5	5.8	790 ³	mg/m ³
(CO)			2.2	5.1	690 ³	ppm
			0.3055	-	-	g/s

REMARK:

¹ มาตรฐานตามรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการ² NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2547 (2004)³ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)⁴ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ก-5620)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ก-4377)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSACK)

(ว-003-ก-5618)

24/03/2023

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Request No. ATR6603036

Report No. 6603-0675 - 6603-0677

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 : 20/03/2023 SAMPLE NO. : A66030675 - A66030677
TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

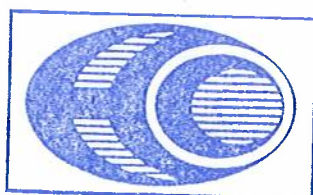
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	13-14/03/2023	0.108	0.33	mg/m ³
		14-15/03/2023	0.101	0.33	mg/m ³
		15-16/03/2023	0.063	0.33	mg/m ³

REMARK:

¹ 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 Klinsoopon)

28/03/2023

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Request No. ATR6603036

Report No. 6603-0672 - 6603-0674

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 : 20/03/2023 SAMPLE NO. : A66030672 - A66030674
TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	13-14/03/2023	0.078	0.12	mg/m ³
		14-15/03/2023	0.085	0.12	mg/m ³
		15-16/03/2023	0.052	0.12	mg/m ³

REMARK:

^{1/} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

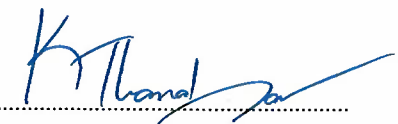
* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

28/03/2023

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Request No. ATR6603036

Report No. 6603-0663 - 6603-0665

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 : 20/03/2023 SAMPLE NO. : A66030663 - A66030665
TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	13-14/03/2023	0.100	0.33	mg/m ³
		14-15/03/2023	0.098	0.33	mg/m ³
		15-16/03/2023	0.064	0.33	mg/m ³

REMARK:

¹ 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 Klinson)

28/03/2023

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Request No. ATR6603036

Report No. 6603-0660 - 6603-0662

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 : 20/03/2023 SAMPLE NO. : A66030660 - A66030662
 TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	13-14/03/2023	0.086	0.12	mg/m ³
		14-15/03/2023	0.088	0.12	mg/m ³
		15-16/03/2023	0.054	0.12	mg/m ³

REMARK:¹ 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 Klinson)

28/03/2023

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Request No. ATR6603036

Report No. 6603-0669 - 6603-0671

TEST REPORT

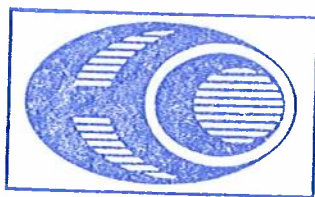
CUSTOMER : Egco Engineering & Service Co., Ltd.
 ADDRESS : 222 Moo 8 T. Mapkha A. NihomPattana, Rayong 21180
 SAMPLE SOURCE : Egco Cogen Power Plant
 SAMPLE NAME : Ban Samnak Ai Ngon
 RECEIVED DATE : 20/03/2023 SAMPLE NO. : A66030669 - A66030671
 TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	13-14/03/2023	0.085	0.33	mg/m ³
		14-15/03/2023	0.081	0.33	mg/m ³
		15-16/03/2023	0.067	0.33	mg/m ³

REMARK:¹ 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)

28/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6603036

Report No. 6603-0666 - 6603-0668

TEST REPORT

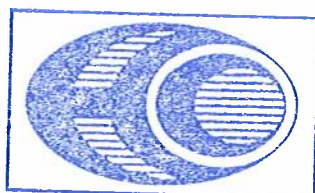
CUSTOMER : Egco Engineering & Service Co., Ltd.
 ADDRESS : 222 Moo 8 T. Mapkha A. Nikhom Pattana, Rayong 21180
 SAMPLE SOURCE : Egco Cogen Power Plant
 SAMPLE NAME : Ban Samnak Ai Ngon
 RECEIVED DATE : 20/03/2023 SAMPLE NO. : A66030666 - A66030668
 TESTED DATE : 20/03/2023-25/03/2023 REPORTED DATE : 28/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	13-14/03/2023	0.080	0.12	mg/m ³
		14-15/03/2023	0.072	0.12	mg/m ³
		15-16/03/2023	0.056	0.12	mg/m ³

REMARK:¹ 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)

28/03/2023

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Request No. LA66-R0352

Report No. R6603-1015 – R6603-1017

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 : Nihom Wittaya School
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 1607

SAMPLE NO. : 02957-02959
SAMPLING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 – 10:00 ³	0.003	0.002	0.003	ppm
10:00 – 11:00	0.003	0.003	0.003	ppm
11:00 – 12:00	0.003	0.003	0.003	ppm
12:00 – 13:00	0.003	0.003	0.003	ppm
13:00 – 14:00	0.003	0.003	0.002	ppm
14:00 – 15:00	0.003	0.004	0.003	ppm
15:00 – 16:00	0.003	0.003	0.003	ppm
16:00 – 17:00	0.003	0.003	0.003	ppm
17:00 – 18:00	0.002	0.003	0.003	ppm
18:00 – 19:00	0.004	0.003	0.003	ppm
19:00 – 20:00	0.004	0.003	0.003	ppm
20:00 – 21:00	0.004	0.003	0.003	ppm
21:00 – 22:00	0.004	0.003	0.003	ppm
22:00 – 23:00	0.003	0.003	0.003	ppm
23:00 – 00:00	0.003	0.003	0.003	ppm
00:00 – 01:00	0.003	0.003	0.003	ppm
01:00 – 02:00	0.003	0.004	0.002	ppm
02:00 – 03:00	0.003	0.003	0.002	ppm
03:00 – 04:00	0.002	0.003	0.003	ppm
04:00 – 05:00	0.003	0.003	0.003	ppm
05:00 – 06:00	0.004	0.003	0.003	ppm
06:00 – 07:00	0.003	0.002	0.002	ppm
07:00 – 08:00	0.004	0.003	0.003	ppm
08:00 – 09:00	0.003	0.003	0.003	ppm
Maximum 1 hr.	0.004	0.004	0.003	ppm
Average 24 hr.	0.003	0.003	0.003	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phosankhuan)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

20/03/2023

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Request No. LA66-R0352

Report No. R6603-1027 – R6603-1029

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* : Sulfur Dioxide
 DETERMINATION METHOD : UV-Fluorescence
 INSTRUMENT : API Model M100E S/N 640

SAMPLE NO. : 02969-02971
 SAMPLING DATE : 13-16/03/2023
 RECEIVED DATE : 16/03/2023
 REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 – 10:00 ³	0.004	0.004	0.004	ppm
10:00 – 11:00	0.004	0.004	0.004	ppm
11:00 – 12:00	0.004	0.004	0.004	ppm
12:00 – 13:00	0.004	0.004	0.004	ppm
13:00 – 14:00	0.004	0.004	0.004	ppm
14:00 – 15:00	0.004	0.004	0.004	ppm
15:00 – 16:00	0.004	0.003	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	0.004	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	0.004	ppm
Maximum 1 hr.	0.004	0.004	0.004	ppm
Average 24 hr.	0.004	0.004	0.004	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ 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)

20/03/2023

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Request No. LA66-R0352

Report No. R6603-1021 – R6603-1023

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 : Ban Samnak Ai Ngon
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 02963-02965
SAMPLING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 – 10:00 ³	0.020	0.026	0.026	ppm
10:00 – 11:00	0.019	0.026	0.026	ppm
11:00 – 12:00	0.025	0.026	0.027	ppm
12:00 – 13:00	0.027	0.026	0.027	ppm
13:00 – 14:00	0.022	0.026	0.027	ppm
14:00 – 15:00	0.021	0.026	0.027	ppm
15:00 – 16:00	0.024	0.027	0.027	ppm
16:00 – 17:00	0.024	0.027	0.027	ppm
17:00 – 18:00	0.024	0.026	0.028	ppm
18:00 – 19:00	0.025	0.026	0.027	ppm
19:00 – 20:00	0.025	0.026	0.026	ppm
20:00 – 21:00	0.026	0.026	0.026	ppm
21:00 – 22:00	0.025	0.026	0.026	ppm
22:00 – 23:00	0.025	0.026	0.026	ppm
23:00 – 00:00	0.025	0.026	0.026	ppm
00:00 – 01:00	0.025	0.026	0.026	ppm
01:00 – 02:00	0.026	0.026	0.026	ppm
02:00 – 03:00	0.025	0.026	0.026	ppm
03:00 – 04:00	0.026	0.026	0.026	ppm
04:00 – 05:00	0.026	0.026	0.026	ppm
05:00 – 06:00	0.026	0.026	0.026	ppm
06:00 – 07:00	0.026	0.026	0.026	ppm
07:00 – 08:00	0.026	0.026	0.026	ppm
08:00 – 09:00	0.026	0.026	0.026	ppm
Maximum 1 hr.	0.027	0.027	0.028	ppm
Average 24 hr.	0.024	0.026	0.026	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E. 2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

20/03/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0352

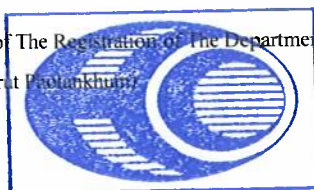
Report No. R6603-1018 – R6603-1020

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 6756

SAMPLE NO. : 02960-02962
 SAMPLING DATE : 13-16/03/2023
 RECEIVED DATE : 16/03/2023
 REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 – 10:00 ²	0.007	0.009	0.012	ppm
10:00 – 11:00	0.007	0.008	0.009	ppm
11:00 – 12:00	0.007	0.008	0.007	ppm
12:00 – 13:00	0.006	0.007	0.007	ppm
13:00 – 14:00	0.006	0.006	0.007	ppm
14:00 – 15:00	0.008	0.007	0.006	ppm
15:00 – 16:00	0.007	0.008	0.008	ppm
16:00 – 17:00	0.007	0.008	0.008	ppm
17:00 – 18:00	0.012	0.009	0.011	ppm
18:00 – 19:00	0.017	0.012	0.011	ppm
19:00 – 20:00	0.018	0.014	0.009	ppm
20:00 – 21:00	0.017	0.014	0.008	ppm
21:00 – 22:00	0.015	0.015	0.009	ppm
22:00 – 23:00	0.015	0.018	0.008	ppm
23:00 – 00:00	0.014	0.014	0.008	ppm
00:00 – 01:00	0.018	0.017	0.007	ppm
01:00 – 02:00	0.015	0.021	0.006	ppm
02:00 – 03:00	0.014	0.020	0.006	ppm
03:00 – 04:00	0.015	0.014	0.006	ppm
04:00 – 05:00	0.013	0.015	0.006	ppm
05:00 – 06:00	0.013	0.017	0.006	ppm
06:00 – 07:00	0.015	0.018	0.008	ppm
07:00 – 08:00	0.017	0.015	0.014	ppm
08:00 – 09:00	0.016	0.015	0.014	ppm
Maximum 1 hr.	0.018	0.021	0.014	ppm
Average 24 hr.	0.012	0.013	0.008	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phatankhung)

Approved By.....

(MS. THANATPORN KLINSOPON)

20/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0352

Report No. R6603-1030 – R6603-1032

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* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6758

SAMPLE NO. : 02972-02974
SAMPLING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 – 10:00 ²	0.012	0.022	0.022	ppm
10:00 – 11:00	0.011	0.016	0.012	ppm
11:00 – 12:00	0.011	0.008	0.009	ppm
12:00 – 13:00	0.009	0.006	0.007	ppm
13:00 – 14:00	0.007	0.006	0.006	ppm
14:00 – 15:00	0.007	0.007	0.006	ppm
15:00 – 16:00	0.006	0.006	0.014	ppm
16:00 – 17:00	0.007	0.007	0.024	ppm
17:00 – 18:00	0.009	0.007	0.016	ppm
18:00 – 19:00	0.011	0.012	0.015	ppm
19:00 – 20:00	0.016	0.014	0.014	ppm
20:00 – 21:00	0.014	0.016	0.012	ppm
21:00 – 22:00	0.011	0.015	0.013	ppm
22:00 – 23:00	0.013	0.019	0.009	ppm
23:00 – 00:00	0.014	0.018	0.009	ppm
00:00 – 01:00	0.014	0.019	0.007	ppm
01:00 – 02:00	0.015	0.017	0.006	ppm
02:00 – 03:00	0.014	0.018	0.006	ppm
03:00 – 04:00	0.014	0.018	0.006	ppm
04:00 – 05:00	0.015	0.016	0.008	ppm
05:00 – 06:00	0.014	0.015	0.008	ppm
06:00 – 07:00	0.014	0.017	0.009	ppm
07:00 – 08:00	0.015	0.018	0.016	ppm
08:00 – 09:00	0.018	0.017	0.017	ppm
Maximum 1 hr.	0.018	0.022	0.024	ppm
Average 24 hr.	0.012	0.014	0.011	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photakham)

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

20/03/2023

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Request No. LA66-R0352

Report No. R6603-1024 - R6603-1026

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* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 6757

SAMPLE NO. : 02966-02968
SAMPLING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME / DATE	13-14/03/2023	14-15/03/2023	15-16/03/2023	UNIT
09:00 - 10:00 ²	0.011	0.008	0.010	ppm
10:00 - 11:00	0.010	0.006	0.008	ppm
11:00 - 12:00	0.012	0.005	0.007	ppm
12:00 - 13:00	0.010	0.004	0.006	ppm
13:00 - 14:00	0.007	0.004	0.005	ppm
14:00 - 15:00	0.009	0.005	0.003	ppm
15:00 - 16:00	0.013	0.005	0.008	ppm
16:00 - 17:00	0.014	0.005	0.012	ppm
17:00 - 18:00	0.020	0.006	0.017	ppm
18:00 - 19:00	0.011	0.011	0.008	ppm
19:00 - 20:00	0.012	0.014	0.007	ppm
20:00 - 21:00	0.015	0.012	0.008	ppm
21:00 - 22:00	0.011	0.010	0.007	ppm
22:00 - 23:00	0.014	0.010	0.007	ppm
23:00 - 00:00	0.013	0.010	0.006	ppm
00:00 - 01:00	0.011	0.009	0.005	ppm
01:00 - 02:00	0.011	0.008	0.004	ppm
02:00 - 03:00	0.010	0.008	0.004	ppm
03:00 - 04:00	0.008	0.008	0.004	ppm
04:00 - 05:00	0.006	0.008	0.004	ppm
05:00 - 06:00	0.005	0.008	0.005	ppm
06:00 - 07:00	0.005	0.010	0.006	ppm
07:00 - 08:00	0.007	0.008	0.007	ppm
08:00 - 09:00	0.008	0.008	0.010	ppm
Maximum 1 hr.	0.020	0.014	0.017	ppm
Average 24 hr.	0.010	0.008	0.007	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

20/03/2023

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Wind Speed & Wind Direction

Request No. LA66-R0352

Egco Engineering & Service Co., Ltd.

Sample No. 02987

Sampling Source : Nikhom Wittaya School

Sampling Date : March 13-16, 2023

Time	March 13-14, 2023		March 14-15, 2023		March 15-16, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.4	ENE	1.3	NNE	0.4	N
10:00-11:00	0.9	SE	1.3	ENE	0.9	SSE
11:00-12:00	1.3	ENE	1.3	E	1.3	SE
12:00-13:00	1.3	ENE	1.3	SE	2.2	SE
13:00-14:00	1.3	SE	1.8	S	2.7	S
14:00-15:00	0.9	SSE	1.8	SSE	3.6	SSE
15:00-16:00	0.9	SE	2.7	S	4.0	S
16:00-17:00	1.3	SE	2.2	S	4.0	S
17:00-18:00	1.3	SSW	2.7	S	3.6	S
18:00-19:00	1.3	WSW	2.2	S	2.7	S
19:00-20:00	0.9	WSW	1.3	SW	1.8	S
20:00-21:00	0.9	WSW	0.9	SW	0.9	S
21:00-22:00	0.4	SSW	0.0	-	0.4	S
22:00-23:00	0.4	WSW	0.0	-	0.0	-
23:00-00:00	0.0	-	0.4	NNE	0.9	SE
00:00-01:00	0.0	-	0.0	-	1.3	SSE
01:00-02:00	0.4	ENE	0.0	-	1.3	SE
02:00-03:00	0.0	-	0.0	-	0.9	SSE
03:00-04:00	0.0	-	0.0	-	0.4	SSE
04:00-05:00	0.0	-	0.0	-	0.4	SSE
05:00-06:00	0.0	-	0.0	-	0.4	SSE
06:00-07:00	0.0	-	0.0	-	0.0	-
07:00-08:00	0.4	ENE	0.4	N	0.0	-
08:00-09:00	0.4	N	0.9	NNE	0.0	-

Wind Speed & Wind Direction

Request No. LA66-R0352

Egco Engineering & Service Co., Ltd.

Sample No. 02989

Sampling Source : Map Kha Temple

Sampling Date : March 13-16, 2023

Time	March 13-14, 2023		March 14-15, 2023		March 15-16, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.0	-	0.0	-
10:00-11:00	0.0	-	0.0	-	0.4	SE
11:00-12:00	0.4	NNE	0.4	E	0.4	ESE
12:00-13:00	0.4	NNE	0.4	ESE	0.9	ESE
13:00-14:00	0.4	SE	0.4	ESE	0.9	SE
14:00-15:00	0.0	-	0.9	ESE	1.3	SE
15:00-16:00	0.4	ESE	1.3	SE	1.3	S
16:00-17:00	0.0	-	0.4	SE	0.9	SE
17:00-18:00	0.0	-	0.0	-	0.9	SE
18:00-19:00	0.4	S	0.9	SE	1.3	SE
19:00-20:00	0.4	S	0.4	SSE	1.3	SE
20:00-21:00	0.4	SSW	0.4	S	0.9	SE
21:00-22:00	0.0	-	0.4	SSW	0.4	SE
22:00-23:00	0.0	-	0.0	-	0.4	SE
23:00-00:00	0.0	-	0.0	-	0.4	SE
00:00-01:00	0.0	-	0.0	-	0.9	SE
01:00-02:00	0.0	-	0.0	-	0.9	SE
02:00-03:00	0.0	-	0.0	-	0.4	SE
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	-	0.0	-
06:00-07:00	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-
08:00-09:00	0.0	-	0.0	-	0.0	-

Wind Speed & Wind Direction

Request No. LA66-R0352

Egco Engineering & Service Co., Ltd.

Sample No. 02988

Sampling Source : Ban Samnak Ai Ngon

Sampling Date : March 13-16, 2023

Time	March 13-14, 2023		March 14-15, 2023		March 15-16, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	1.3	SE	0.9	ESE	0.4	ENE
10:00-11:00	1.3	ESE	0.4	NE	0.9	SSE
11:00-12:00	1.8	ESE	1.3	ESE	1.3	S
12:00-13:00	1.8	SE	0.9	SSE	1.8	S
13:00-14:00	0.4	SE	1.3	SSW	2.2	SSW
14:00-15:00	0.9	SSE	1.3	SSW	2.2	SSW
15:00-16:00	0.9	SE	1.8	SSW	2.7	SSW
16:00-17:00	0.9	SE	1.8	SSW	2.2	SSW
17:00-18:00	0.9	SSE	1.3	SW	1.8	SSW
18:00-19:00	1.3	SSW	0.4	SW	1.3	SSW
19:00-20:00	0.4	W	0.0	-	0.4	SSW
20:00-21:00	1.3	W	0.0	-	0.0	-
21:00-22:00	0.9	W	0.0	-	0.4	SSW
22:00-23:00	0.4	SSW	0.0	-	0.4	S
23:00-00:00	0.9	SSW	0.0	-	0.4	SSW
00:00-01:00	0.9	SSW	0.0	-	0.4	S
01:00-02:00	0.9	SSW	0.0	-	0.9	SSW
02:00-03:00	1.3	SSW	0.0	-	0.4	SSW
03:00-04:00	0.9	S	0.0	-	0.4	SSW
04:00-05:00	0.4	ESE	0.0	-	0.0	-
05:00-06:00	0.9	SE	0.0	-	0.4	S
06:00-07:00	1.3	SE	0.0	-	0.0	-
07:00-08:00	0.9	E	0.0	-	0.0	-
08:00-09:00	0.9	ESE	0.0	-	0.4	S

Wind Speed & Wind Direction

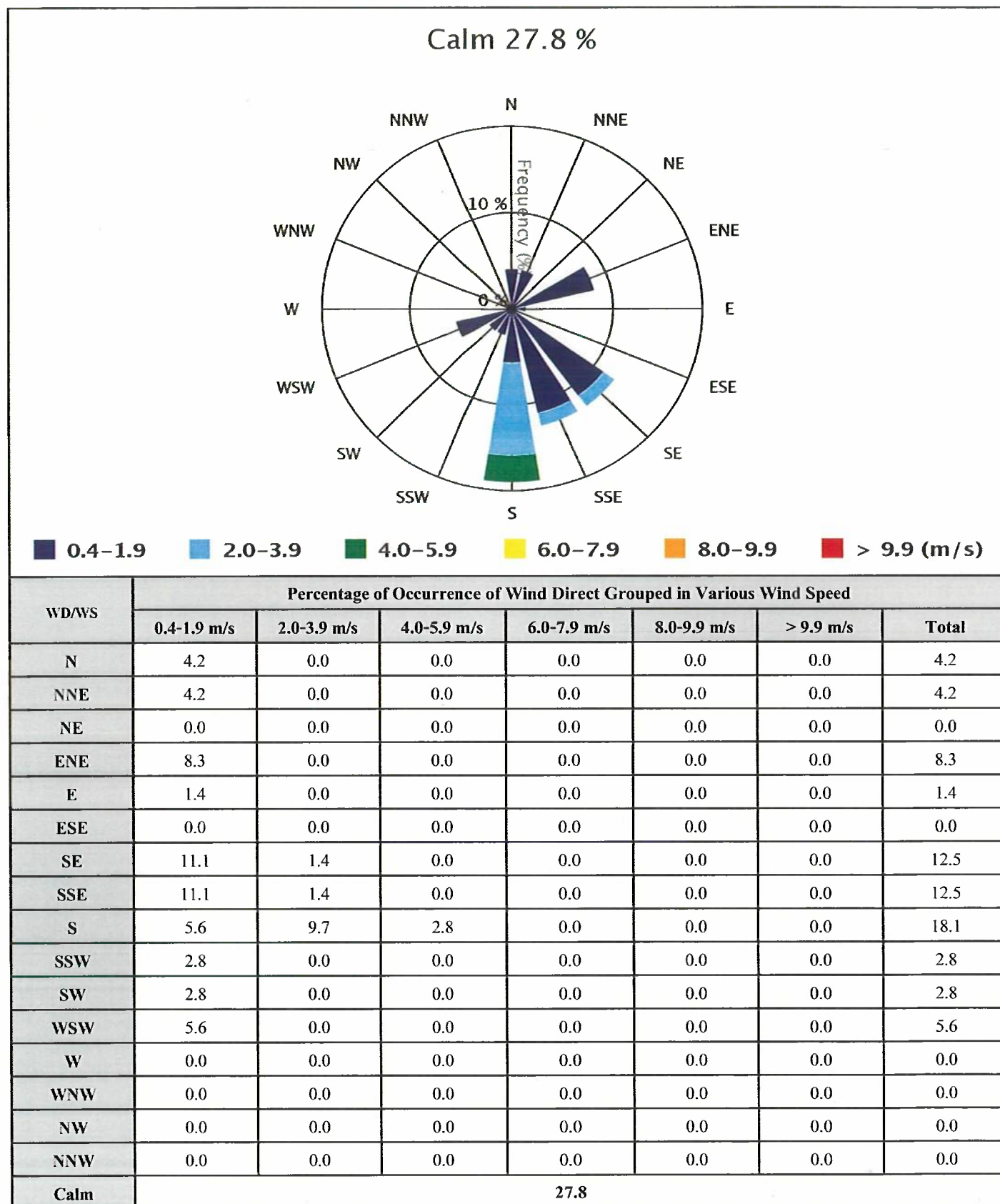
Request No. LA66-R0352

Egco Engineering & Service Co., Ltd.

Sample No. 02987

Sampling Source : Nikhom Wittaya School

Sampling Date : March 13-16, 2023



Wind Speed & Wind Direction

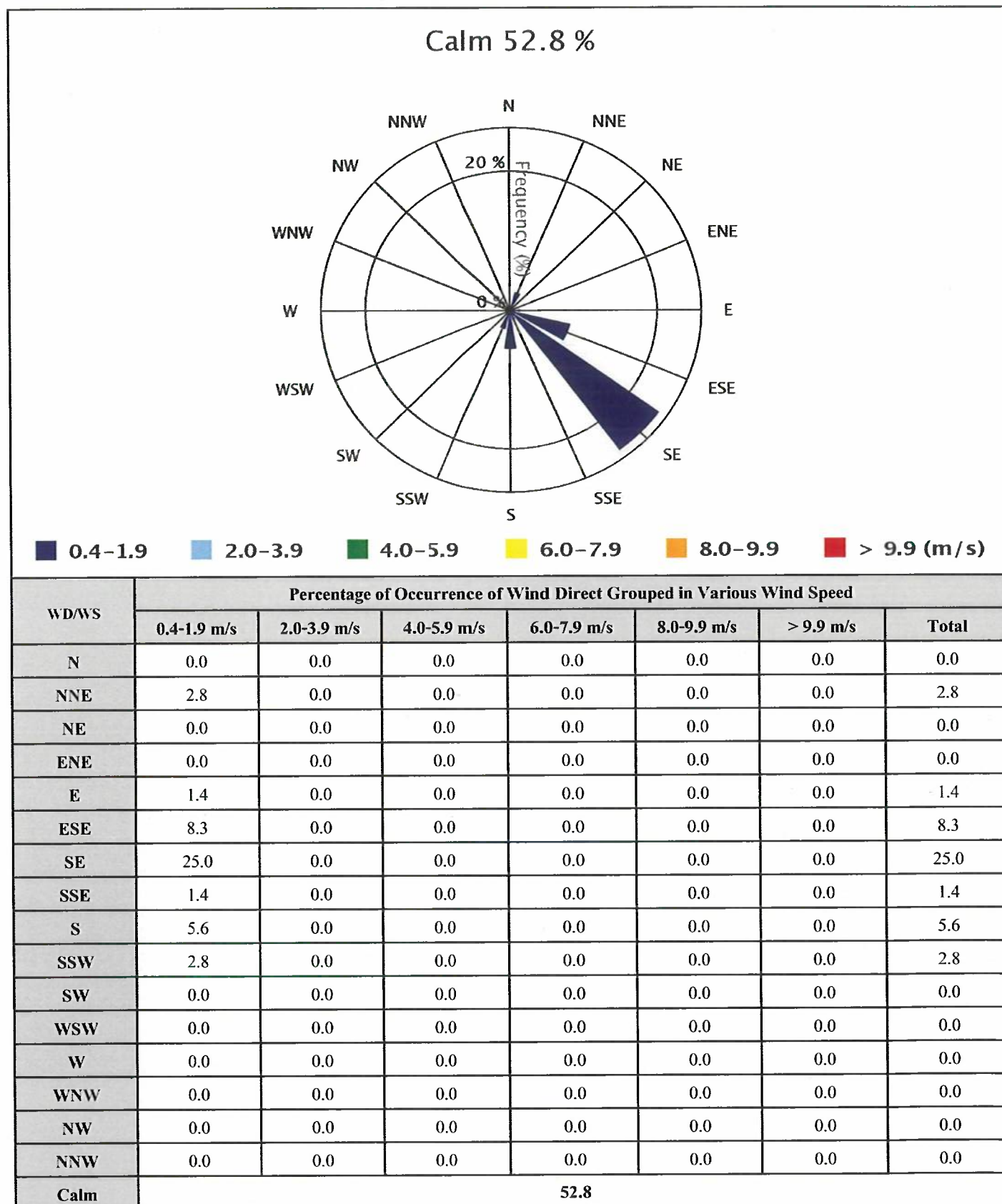
Request No. LA66-R0352

Egco Engineering & Service Co., Ltd.

Sample No. 02989

Sampling Source : Map Kha Temple

Sampling Date : March 13-16, 2023



Wind Speed & Wind Direction

Request No. LA66-R0352

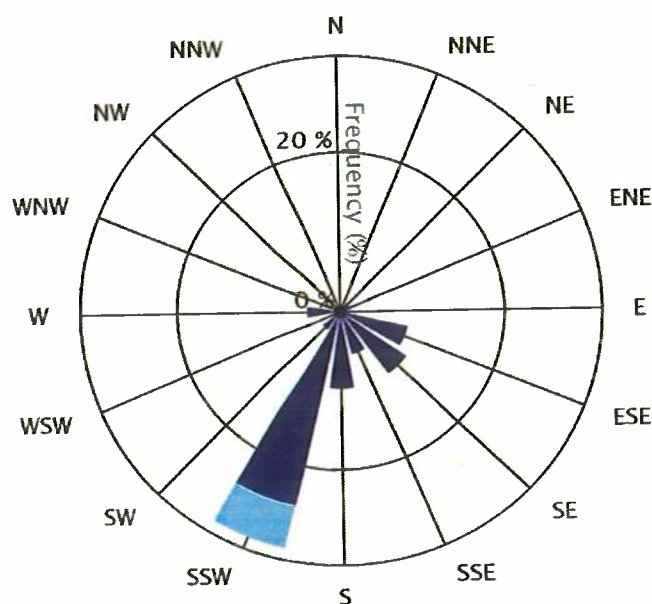
Egco Engineering & Service Co., Ltd.

Sample No. 02988

Sampling Source : Ban Samnak Ai Ngon

Sampling Date : March 13-16, 2023

Calm 25.0 %



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	1.4	0.0	0.0	0.0	0.0	0.0	1.4
ENE	1.4	0.0	0.0	0.0	0.0	0.0	1.4
E	1.4	0.0	0.0	0.0	0.0	0.0	1.4
ESE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
SE	9.7	0.0	0.0	0.0	0.0	0.0	9.7
SSE	5.6	0.0	0.0	0.0	0.0	0.0	5.6
S	9.7	0.0	0.0	0.0	0.0	0.0	9.7
SSW	25.0	5.6	0.0	0.0	0.0	0.0	30.6
SW	2.8	0.0	0.0	0.0	0.0	0.0	2.8
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	4.2	0.0	0.0	0.0	0.0	0.0	4.2
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	25.0						

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 01120947 : Class 1

SAMPLE NO. : 02984-02986
 MEASURING DATE : 13-16/03/2023
 RECEIVED DATE : 16/03/2023
 REPORTED DATE : 20/03/2023

TIME \ DATE	13-14/03/2023 (L_{eq})	14-15/03/2023 (L_{eq})	15-16/03/2023 (L_{eq})	UNIT
11:00 – 12:00 ³	66.8	68.8	67.4	dB(A)
12:00 – 13:00	65.7	66.2	66.1	dB(A)
13:00 – 14:00	67.2	67.0	67.6	dB(A)
14:00 – 15:00	67.0	65.7	67.8	dB(A)
15:00 – 16:00	67.1	64.4	67.6	dB(A)
16:00 – 17:00	67.0	65.4	67.5	dB(A)
17:00 – 18:00	67.0	66.3	69.5	dB(A)
18:00 – 19:00	67.3	64.8	67.6	dB(A)
19:00 – 20:00	65.4	62.3	65.7	dB(A)
20:00 – 21:00	65.2	62.2	65.5	dB(A)
21:00 – 22:00	64.5	61.3	65.0	dB(A)
22:00 – 23:00	64.5	61.0	65.3	dB(A)
23:00 – 00:00	64.4	60.9	65.0	dB(A)
00:00 – 01:00	64.2	61.1	64.9	dB(A)
01:00 – 02:00	64.0	60.9	65.1	dB(A)
02:00 – 03:00	64.2	62.4	64.9	dB(A)
03:00 – 04:00	64.3	62.8	64.7	dB(A)
04:00 – 05:00	64.5	61.0	64.8	dB(A)
05:00 – 06:00	64.6	61.5	65.3	dB(A)
06:00 – 07:00	65.2	62.3	65.1	dB(A)
07:00 – 08:00	65.9	64.2	65.5	dB(A)
08:00 – 09:00	67.9	65.4	67.6	dB(A)
09:00 – 10:00	67.2	65.9	67.8	dB(A)
10:00 – 11:00	67.6	66.3	69.2	dB(A)
L_{eq} 24 hr.	66.0	64.4	66.6	dB(A)
L_{dn}	71.3	68.8	71.8	dB(A)
Standard	$70^1, 70^2$	$70^1, 70^2$	$70^1, 70^2$	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time

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



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0352

Report No. R6603-1039 -R6603-1041

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 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 01120946 : Class 1

SAMPLE NO. : 02981-02983
MEASURING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME \ DATE	13-14/03/2023 (L_{eq})	14-15/03/2023 (L_{eq})	15-16/03/2023 (L_{eq})	UNIT
11:00 – 12:00 ³	54.3	53.4	56.4	dB(A)
12:00 – 13:00	54.3	52.5	54.0	dB(A)
13:00 – 14:00	53.8	55.2	54.6	dB(A)
14:00 – 15:00	56.4	55.8	54.5	dB(A)
15:00 – 16:00	53.6	55.2	56.7	dB(A)
16:00 – 17:00	55.2	55.1	55.4	dB(A)
17:00 – 18:00	57.3	56.6	56.6	dB(A)
18:00 – 19:00	56.9	57.1	57.1	dB(A)
19:00 – 20:00	55.8	54.8	53.9	dB(A)
20:00 – 21:00	54.3	54.3	54.2	dB(A)
21:00 – 22:00	52.1	53.0	52.2	dB(A)
22:00 – 23:00	50.5	51.2	52.6	dB(A)
23:00 – 00:00	49.5	50.8	50.9	dB(A)
00:00 – 01:00	50.9	53.5	49.7	dB(A)
01:00 – 02:00	47.3	48.7	48.5	dB(A)
02:00 – 03:00	47.2	47.3	46.9	dB(A)
03:00 – 04:00	48.3	48.6	47.1	dB(A)
04:00 – 05:00	47.9	48.5	49.2	dB(A)
05:00 – 06:00	52.9	51.4	52.5	dB(A)
06:00 – 07:00	56.2	56.2	55.5	dB(A)
07:00 – 08:00	58.2	57.7	57.6	dB(A)
08:00 – 09:00	56.4	56.3	55.8	dB(A)
09:00 – 10:00	56.5	55.8	56.0	dB(A)
10:00 – 11:00	54.2	54.5	53.1	dB(A)
L_{eq} 24 hr.	54.4	54.3	54.3	dB(A)
L_{dn}	58.5	58.8	58.5	dB(A)
Standard	$70^1, 70^2$	$70^1, 70^2$	$70^1, 70^2$	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time

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



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0352

Report No. R6603-1036 -R6603-1038

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* : L_{eq} 1 hr., L_{eq} 24 hr., & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120952 : Class 1

SAMPLE NO. : 02978-02980
MEASURING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME \ DATE	13-14/03/2023 (L_{eq})	14-15/03/2023 (L_{eq})	15-16/03/2023 (L_{eq})	UNIT
11:00 – 12:00 ³	57.1	61.3	51.2	dB(A)
12:00 – 13:00	58.2	56.7	52.8	dB(A)
13:00 – 14:00	60.5	57.6	53.5	dB(A)
14:00 – 15:00	59.6	54.3	58.2	dB(A)
15:00 – 16:00	53.5	54.8	59.9	dB(A)
16:00 – 17:00	55.5	52.7	58.7	dB(A)
17:00 – 18:00	53.5	52.2	55.2	dB(A)
18:00 – 19:00	55.0	56.9	54.0	dB(A)
19:00 – 20:00	51.7	55.6	46.6	dB(A)
20:00 – 21:00	51.5	55.3	49.5	dB(A)
21:00 – 22:00	47.0	54.8	46.7	dB(A)
22:00 – 23:00	45.5	53.9	46.6	dB(A)
23:00 – 00:00	45.6	47.4	44.5	dB(A)
00:00 – 01:00	45.4	44.9	47.9	dB(A)
01:00 – 02:00	47.6	44.9	47.4	dB(A)
02:00 – 03:00	50.8	45.9	49.7	dB(A)
03:00 – 04:00	46.6	48.7	53.2	dB(A)
04:00 – 05:00	46.2	47.0	47.3	dB(A)
05:00 – 06:00	49.0	49.3	52.2	dB(A)
06:00 – 07:00	56.8	57.1	57.1	dB(A)
07:00 – 08:00	59.0	58.8	55.5	dB(A)
08:00 – 09:00	54.9	60.2	57.4	dB(A)
09:00 – 10:00	54.0	56.7	53.4	dB(A)
10:00 – 11:00	56.4	56.2	55.1	dB(A)
L_{eq} 24 hr.	54.9	55.6	54.2	dB(A)
L_{dn}	58.2	58.9	58.6	dB(A)
Standard	$70^1, 70^2$	$70^1, 70^2$	$70^1, 70^2$	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ 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)

20/03/2023

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

Request No. LA66-R0352

Report No. R6603-1033 -R6603-1035

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 01120953 : Class 1

SAMPLE NO. : 02975-02977
MEASURING DATE : 13-16/03/2023
RECEIVED DATE : 16/03/2023
REPORTED DATE : 20/03/2023

TIME \ DATE	13-14/03/2023 (L _{eq})	14-15/03/2023 (L _{eq})	15-16/03/2023 (L _{eq})	UNIT
11:00 – 12:00 ³	56.8	55.2	54.4	dB(A)
12:00 – 13:00	56.7	54.5	55.9	dB(A)
13:00 – 14:00	57.3	55.7	59.8	dB(A)
14:00 – 15:00	61.4	59.0	55.7	dB(A)
15:00 – 16:00	58.9	56.7	56.2	dB(A)
16:00 – 17:00	61.7	55.7	55.4	dB(A)
17:00 – 18:00	57.9	58.6	57.8	dB(A)
18:00 – 19:00	55.9	54.4	55.4	dB(A)
19:00 – 20:00	51.8	53.1	52.3	dB(A)
20:00 – 21:00	58.1	51.2	66.8	dB(A)
21:00 – 22:00	54.1	50.3	53.3	dB(A)
22:00 – 23:00	52.9	51.2	53.1	dB(A)
23:00 – 00:00	51.5	51.5	49.5	dB(A)
00:00 – 01:00	53.0	51.0	45.3	dB(A)
01:00 – 02:00	49.7	47.6	48.7	dB(A)
02:00 – 03:00	51.5	47.5	47.7	dB(A)
03:00 – 04:00	49.4	47.4	51.5	dB(A)
04:00 – 05:00	48.9	48.2	47.6	dB(A)
05:00 – 06:00	54.4	54.0	52.7	dB(A)
06:00 – 07:00	58.8	68.4	60.6	dB(A)
07:00 – 08:00	57.7	58.1	58.6	dB(A)
08:00 – 09:00	57.6	57.0	68.5	dB(A)
09:00 – 10:00	57.9	56.4	56.6	dB(A)
10:00 – 11:00	56.0	56.5	56.0	dB(A)
L _{eq} 24 hr.	56.7	57.6	59.1	dB(A)
L _{dn}	60.8	65.4	61.9	dB(A)
Standard	70 ¹ , 70 ²	70 ¹ , 70 ²	70 ¹ , 70 ²	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

Test Report

Request No : W6601376

Report No : 6601-1769

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น**

Sample No : W 66011384

Sample Name : Waste Water Inlet**

Sampling Date : 17/01/2023**

Sampling By : ETC**

Sampling Time : 10:20 AM**

Sampling Method : Grab**

Received Date : 18/01/2023

Tested Date : 18/01/2023 - 25/01/2023

Reported Date : 27/01/2023

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	8.4
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	864

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 / Mr. Kawee Suthasub is Technical Management.

3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (1-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

27/01/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(1-003-ก-2205)

27/01/2023

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

Test Report

Request No : W6601376

Report No : 6601-1769

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบป้า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66011384

Sample Name : Waste Water Inlet

Sampling Date : 17/01/2023

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 18/01/2023

Tested Date : 18/01/2023 - 25/01/2023

Reported Date : 27/01/2023

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	888

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. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/01/2023

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

Test Report

Request No : W6602388

Report No : 6602-1715

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมน้ำจืด จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น**

Sample No : W 66021524

Sample Name : Waste Water Inlet**

Sampling Date : 14/02/2023**

Sampling By : ETC**

Sampling Time : 10:50 AM**

Sampling Method : Grab**

Received Date : 15/02/2023

Tested Date : 15/02/2023 - 23/02/2023

Reported Date : 25/02/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.4
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	7.9
Temperature *	°C	Laboratory and Field Method	29
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	1,076

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 / Mr. Kawee Suthasub is Technical Management.

3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (1-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-ก-4377)
25/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(1-003-ก-2205)
25/02/2023

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

Test Report

Request No : W6602388

Report No : 6602-1715

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66021524

Sample Name : Waste Water Inlet

Sampling Date : 14/02/2023

Sampling By : ETC

Sampling Time : 10:50 AM

Sampling Method : Grab

Received Date : 15/02/2023

Tested Date : 15/02/2023 - 23/02/2023

Reported Date : 25/02/2023

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,140

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. Songpon Phiwuan (ว-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

25/02/2023

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Test Report

Request No : W6603361

Report No : 6603-1881

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66031520

Sample Name : Waste Water Inlet**

Sampling Date : 14/03/2023**

Sampling By : ETC**

Sampling Time : 10:07 AM**

Sampling Method : Grab**

Received Date : 15/03/2023

Tested Date : 15/03/2023 - 24/03/2023

Reported Date : 28/03/2023

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	8.6
Temperature *	°C	Laboratory and Field Method	32
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	1,476

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 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 Miss Pompinan Viriyakusolkul (จ-003-จ-8334)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

28/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

28/03/2023

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

Request No : W6603361

Report No : 6603-1881

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66031520

Sample Name : Waste Water Inlet

Sampling Date : 14/03/2023

Sampling By : ETC

Sampling Time : 10:07 AM

Sampling Method : Grab

Received Date : 15/03/2023

Tested Date : 15/03/2023 - 24/03/2023

Reported Date : 28/03/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	1,564

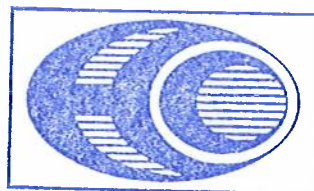
Physical Apperance : 1. Sample : yellowish, turbid

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 Miss Pompinan Viriyakusolkul (ว-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

28/03/2023

Test Report

Request No : W6604337

Report No : 6604-1907

Customer : บริษัท เอ็กโกเอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66041265

Sample Name : Waste Water Inlet**

Sampling Date : 11/04/2023**

Sampling By : ETC**

Sampling Time : 11:30 AM**

Sampling Method : Grab**

Received Date : 12/04/2023

Tested Date : 12/04/2023 - 25/04/2023

Reported Date : 29/04/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.9
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	57
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	7.2
Temperature *	°C	Laboratory and Field Method	29
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	2,600

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. @ = 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 Miss Janthanee Saiphan (จ-003-ก-7281)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

29/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

29/04/2023

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Test Report

Request No : W6604337

Report No : 6604-1907

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเจน

Sample No : W 66041265

Sample Name : Waste Water Inlet

Sampling Date : 11/04/2023

Sampling By : ETC

Sampling Time : 11:30 AM

Sampling Method : Grab

Received Date : 12/04/2023

Tested Date : 12/04/2023 - 25/04/2023

Reported Date : 29/04/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	2,748

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 Miss Janthanee Saiphan (จ-003-ก-7281)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

29/04/2023

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ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhaphibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



TESTING
No.0159

Test Report

Request No : W6605451

Report No : 6606-0271

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น**

Sample No : W 66051631

Sample Name : Waste Water Inlet**

Sampling Date : 17/05/2023**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 18/05/2023

Tested Date : 18/05/2023 - 26/05/2023

Reported Date : 07/06/2023

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)	57
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	7.8
Temperature *	°C	Laboratory and Field Method	33
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	1,116

Physical Appearance : 1. Sample : yellow, 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 (จ-003-ท-5637)*

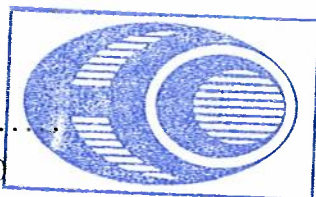
4. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

07/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-4367)

07/06/2023

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

Test Report

Request No : W6605451

Report No : 6606-0271

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66051631

Sample Name : Waste Water Inlet

Sampling Date : 17/05/2023

Sampling By : ETC

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 18/05/2023

Tested Date : 18/05/2023 - 26/05/2023

Reported Date : 07/06/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	1,162

Physical Apperance : 1. Sample : yellow, 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. Supharerk Phatklang (3-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

07/06/2023

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

Test Report

Request No : W6606462

Report No : 6606-2493

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66061769

Sample Name : Waste Water Inlet**

Sampling Date : 16/06/2023**

Sampling By : ETC**

Sampling Time : 10:05 AM**

Sampling Method : Grab**

Received Date : 17/06/2023

Tested Date : 17/06/2023 - 28/06/2023

Reported Date : 30/06/2023

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	8.2
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	920

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. Songpon Phiwuan (จ-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
30/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6606462

Report No : 6606-2493

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66061769

Sample Name : Waste Water Inlet

Sampling Date : 16/06/2023

Sampling By : ETC

Sampling Time : 10:05 AM

Sampling Method : Grab

Received Date : 17/06/2023

Tested Date : 17/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	956

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 (ว-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By :

(Miss Apiradee Chuen-arom)

30/06/2023

Test Report

Request No : W6601376

Report No : 6601-1770

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น**

Sample No : W 66011385

Sample Name : Waste Water Outlet**

Sampling Date : 17/01/2023**

Sampling By : ETC**

Sampling Time : 10:15 AM**

Sampling Method : Grab**

Received Date : 18/01/2023

Tested Date : 18/01/2023 - 25/01/2023

Reported Date : 27/01/2023

Parameter	Unit	Method	Result	Standard ¹
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	8.2	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤40
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	804	≤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. /I Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISIL, # = 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 (1-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

27/01/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(1-003-ก-2205)

27/01/2023

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Test Report

Request No : W6601376

Report No : 6601-1770

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66011385

Sample Name : Waste Water Outlet

Sampling Date : 17/01/2023

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 18/01/2023

Tested Date : 18/01/2023 - 25/01/2023

Reported Date : 27/01/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	850	-

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 (ว-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/01/2023

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Test Report

Request No : W6602388

Report No : 6602-1716

Customer : บริษัท เอ็กโกเอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน**

Sample No : W 66021525

Sample Name : Waste Water Outlet**

Sampling Date : 14/02/2023**

Sampling By : ETC**

Sampling Time : 10:40 AM**

Sampling Method : Grab**

Received Date : 15/02/2023

Tested Date : 15/02/2023 - 23/02/2023

Reported Date : 25/02/2023

Parameter	Unit	Method	Result	Standard ¹
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	7.8	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤40
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	836	≤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. /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 / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

25/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

25/02/2023

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Test Report

Request No : W6602388

Report No : 6602-1716

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66021525

Sample Name : Waste Water Outlet

Sampling Date : 14/02/2023

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 15/02/2023

Tested Date : 15/02/2023 - 23/02/2023

Reported Date : 25/02/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	902	-

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 (1-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

25/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6603361

Report No : 6603-1882

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น**

Sample No : W 66031521

Sample Name : Waste Water Outlet**

Sampling Date : 14/03/2023**

Sampling By : ETC**

Sampling Time : 9:57 AM**

Sampling Method : Grab**

Received Date : 15/03/2023

Tested Date : 15/03/2023 - 24/03/2023

Reported Date : 28/03/2023

Parameter	Unit	Method	Result	Standard ¹
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	8.8	5.5-9.0
Temperature [*]	°C	Laboratory and Field Method	32	≤ 40
Total Dissolved Solids [#]	mg/L	Dried at 180 C (SM:2540C)	744	≤ 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. /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 / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (๖-003-๖-8334)*

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

Examined By :

(Miss Apiradee Chuen-arom)
(๖-003-๖-4377)

28/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(๖-003-๖-2205)

28/03/2023

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

Test Report

Request No : W6603361

Report No : 6603-1882

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเดน

Sample No : W 66031521

Sample Name : Waste Water Outlet

Sampling Date : 14/03/2023

Sampling By : ETC

Sampling Time : 9:57 AM

Sampling Method : Grab

Received Date : 15/03/2023

Tested Date : 15/03/2023 - 24/03/2023

Reported Date : 28/03/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	771	-

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 (๖-003-๖-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

28/03/2023

Test Report

Request No : W6604337

Report No : 6604-1908

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66041266

Sample Name : Waste Water Outlet**

Sampling Date : 11/04/2023**

Sampling By : ETC**

Sampling Time : 11:15 AM**

Sampling Method : Grab**

Received Date : 12/04/2023

Tested Date : 12/04/2023 - 25/04/2023

Reported Date : 29/04/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand [#]	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.0	≤20
Chemical Oxygen Demand [#]	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	51	≤120
Oil and Grease [@]	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤5
pH (on site) *		Electrometric Method	6.9	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤40
Total Dissolved Solids [#]	mg/L	Dried at 180 C (SM:2540C)	952	≤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. /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 / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-7281)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

29/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

29/04/2023

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

Test Report

Request No : W6604337

Report No : 6604-1908

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเจน

Sample No : W 66041266

Sample Name : Waste Water Outlet

Sampling Date : 11/04/2023

Sampling By : ETC

Sampling Time : 11:15 AM

Sampling Method : Grab

Received Date : 12/04/2023

Tested Date : 12/04/2023 - 25/04/2023

Reported Date : 29/04/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	1,032	-

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. /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 Miss Janthanee Saiphan (จ-003-ก-7281)



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

29/04/2023

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

Test Report

Request No : W6605451

Report No : 6606-0272

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66051632

Sample Name : Waste Water Outet**

Sampling Date : 17/05/2023**

Sampling By : ETC**

Sampling Time : 9:20 AM**

Sampling Method : Grab**

Received Date : 18/05/2023

Tested Date : 18/05/2023 - 02/06/2023

Reported Date : 07/06/2023

Parameter	Unit	Method	Result	Standard ¹
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	8.1	5.5-9.0
Temperature *	°C	Laboratory and Field Method	35	≤ 40
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	944	≤ 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 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 (1-003-4-5637)*

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

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-4-4377)

07/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)
(1-003-4-4367)

07/06/2023

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

Test Report

Request No : W6605451

Report No : 6606-0272

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น

Sample No : W 66051632

Sample Name : Waste Water Outlet

Sampling Date : 17/05/2023

Sampling By : ETC

Sampling Time : 9:20 AM

Sampling Method : Grab

Received Date : 18/05/2023

Tested Date : 18/05/2023 - 02/06/2023

Reported Date : 07/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	984	-

Physical Appearance : 1. Sample : yellowish, lightly SS

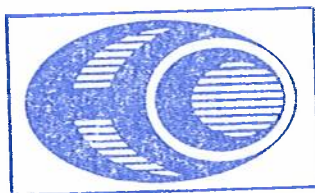
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /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 (7-003-1-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

(Miss Apiradee Chuen-arom)

07/06/2023

Test Report

Request No : W6606462

Report No : 6606-2494

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 66061770

Sample Name : Waste Water Outlet**

Sampling Date : 16/06/2023**

Sampling By : ETC**

Sampling Time : 9:55 AM**

Sampling Method : Grab**

Received Date : 17/06/2023

Tested Date : 17/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.7	≤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	8.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤40
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	952	≤3000

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. /I 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. Songpon Phiwan (ว-003-ก-7279)*

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

Examined By : 

(Miss Apiradee Chuen-arom)
(ว-003-ก-4377)

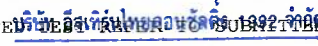

30/06/2023



Approved By : 

(Miss Nunnaphat Bakhuntod)
(ว-003-ก-4367)

30/06/2023

REPORTED BY :  SUBMITTED BY : 
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6606462

Report No : 6606-2494

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 66061770

Sample Name : Waste Water Outlet

Sampling Date : 16/06/2023

Sampling By : ETC

Sampling Time : 9:55 AM

Sampling Method : Grab

Received Date : 17/06/2023

Tested Date : 17/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/L	Dried at 103-105 C (SM:2540B)	1,004	-

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. Songpon Phiwuan (1-003-ก-7279)

Examined By : 

(Miss Apiradee Chuen-arom)

30/06/2023

REPORT THIS STATEMENT FOR SUPPLYING SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

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. : 01234
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 02/02/2023
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/02/2023
S/N 01209914 : Class 2 REPORTED DATE : 06/02/2023

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:40-10:40	63.9	63.9	dB(A)
10:40-11:40	63.9	63.9	dB(A)
11:40-12:40	62.3	62.3	dB(A)
12:40-13:40	63.9	63.9	dB(A)
13:40-14:40	63.6	63.6	dB(A)
14:40-15:40	62.8	62.8	dB(A)
15:40-16:40	64.0	64.0	dB(A)
16:40-17:40	62.6	62.6	dB(A)
L_{eq} 8 hr. (TWA)	63*	63**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

^{/2} 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

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

(Measurement By Ms. Savita Kutihaayarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

06/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0594

Report No. R6605-3654

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. : 10832
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/05/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/05/2023
 S/N 00310458 : Class 2 REPORTED DATE : 30/05/2023

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:10-10:10	66	66	dB(A)
10:10-11:10	63	63	dB(A)
11:10-12:10	63	63	dB(A)
12:10-13:10	71	71	dB(A)
13:10-14:10	63	63	dB(A)
14:10-15:10	63	63	dB(A)
15:10-16:10	63	63	dB(A)
16:10-17:10	64	64	dB(A)
L_{eq} 8 hr. (TWA)	65*	65**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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 Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

30/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
 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 : Control Room
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 01235
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 02/02/2023
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/02/2023
S/N 01209916 : Class 2 REPORTED DATE : 06/02/2023

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:45-10:45	70.8	70.8	dB(A)
10:45-11:45	71.6	71.6	dB(A)
11:45-12:45	74.2	74.2	dB(A)
12:45-13:45	73.8	73.8	dB(A)
13:45-14:45	74.7	74.7	dB(A)
14:45-15:45	76.0	76.0	dB(A)
15:45-16:45	75.6	75.6	dB(A)
16:45-17:45	72.2	72.2	dB(A)
L_{eq} 8 hr. (TWA)	73*	73**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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

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

(Measurement By Ms. Savita Kutimavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

06/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0594

Report No. R6605-3653

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. : 10831
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/05/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/05/2023
 S/N 00209071 : Class 2 REPORTED DATE : 30/05/2023

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:15-10:15	62	62	dB(A)
10:15-11:15	59	59	dB(A)
11:15-12:15	58	58	dB(A)
12:15-13:15	62	62	dB(A)
13:15-14:15	61	61	dB(A)
14:15-15:15	60	60	dB(A)
15:15-16:15	63	63	dB(A)
16:15-17:15	61	61	dB(A)
L_{eq} 8 hr. (TWA)	60*	60**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

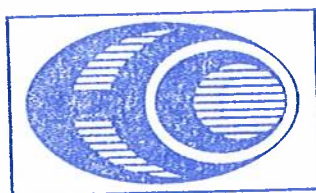
² Notification of The Ministry of Industry B.E. 2546 (2003)

* 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 Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

30/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

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. : 01232
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 02/02/2023
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/02/2023
S/N 00310456 : Class 2 REPORTED DATE : 06/02/2023

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:30-10:30	50.3	50.3	dB(A)
10:30-11:30	48.2	48.2	dB(A)
11:30-12:30	48.7	48.7	dB(A)
12:30-13:30	43.8	43.8	dB(A)
13:30-14:30	48.5	48.5	dB(A)
14:30-15:30	51.5	51.5	dB(A)
15:30-16:30	48.0	48.0	dB(A)
16:30-17:30	47.8	47.8	dB(A)
L_{eq} 8 hr. (TWA)	48*	48**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

^{/2} 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

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

(Measurement By Ms. Savita Kiumavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

06/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0594

Report No. R6605-3652

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. : 10830
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/05/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/05/2023
 S/N 01209912 : Class 2 REPORTED DATE : 30/05/2023

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:20-10:20	56	56	dB(A)
10:20-11:20	51	51	dB(A)
11:20-12:20	51	51	dB(A)
12:20-13:20	49	49	dB(A)
13:20-14:20	55	55	dB(A)
14:20-15:20	49	49	dB(A)
15:20-16:20	54	54	dB(A)
16:20-17:20	57	57	dB(A)
L_{eq} 8 hr. (TWA)	53*	53**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

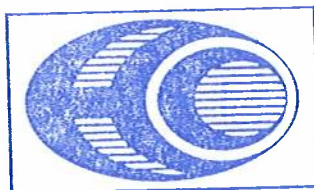
² Notification of The Ministry of Industry B.E. 2546 (2003)

* 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 Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

30/05/2023

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REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

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. : 01233
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 02/02/2023
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/02/2023
S/N 01147300 : Class 2 REPORTED DATE : 06/02/2023

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:35-10:35	53.1	53.1	dB(A)
10:35-11:35	53.4	53.4	dB(A)
11:35-12:35	63.6	63.6	dB(A)
12:35-13:35	46.9	46.9	dB(A)
13:35-14:35	51.0	51.0	dB(A)
14:35-15:35	49.1	49.1	dB(A)
15:35-16:35	52.3	52.3	dB(A)
16:35-17:35	48.8	48.8	dB(A)
L_{eq} 8 hr. (TWA)	55*	54**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)

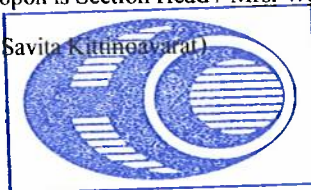
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

** 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

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

(Measurement By Ms. Savita Kittinoavarat)



Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

06/02/2023

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Request No. LA66-R0594

Report No. R6605-3651

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. : 10829
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/05/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/05/2023
 S/N 01209917 : Class 2 REPORTED DATE : 30/05/2023

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:25-10:25	55	55	dB(A)
10:25-11:25	54	54	dB(A)
11:25-12:25	54	54	dB(A)
12:25-13:25	47	47	dB(A)
13:25-14:25	50	50	dB(A)
14:25-15:25	49	49	dB(A)
15:25-16:25	54	54	dB(A)
16:25-17:25	52	52	dB(A)
L_{eq} 8 hr. (TWA)	52*	52**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

^{/2} 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 Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

30/05/2023

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