

Request No. LA65-0329

Report No. 6504-0282

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. : 01380-01382

SAMPLING DATE : 22/03/2022

SAMPLING TIME : 09:30-10:10

RECEIVED DATE : 24/03/2022

REPORTED DATE : 06/04/2022

TESTED DATE : 24/03/2022-01/04/2022

STACK DESCRIPTION

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	111.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	14.17	m/s	Oxygen Content :	14.48 %
Flow rate ⁴ :	109.58	m ³ /s	Barometric Pressure :	755.50 mm.Hg
Moisture Content :	4.15	%	Atmospheric Temperature :	32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ⁴		STD	UNIT
			14.48 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	09:30-10:10	1.4	3.0	54 ¹ , 60 ²	mg/m ³
(TSP)			0.1534	-	4.57 ¹	g/s
Oxides of Nitrogen	Chemical Absorption, Colorimetric	09:50-09:55	45.3	98.1	-	mg/m ³
(NO _x as NO ₂)			24.1	52.2	100 ¹ , 120 ²	ppm
			4.9640	-	20.71 ¹	g/s
Carbon monoxide	Bag, Non Dispersive Infrared	10:00-10:10	2.4	5.2	790 ³	mg/m ³
(CO)			2.1	4.5	690 ³	ppm
			0.2630	-	-	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. WARAKORN VILAYASEWEE (J-003-ก-7283)

Examined By.....
(MISS APIRADEE CHUEN-AROM)

(J-003-ก-4377)

06/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MR. THONGCHAI BOONSAK)

(J-003-ก-5618)

06/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0329

Report No. 6504-0283

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. : 01383-01385

SAMPLING DATE : 22/03/2022

SAMPLING TIME : 10:30-11:30

RECEIVED DATE : 24/03/2022

REPORTED DATE : 06/04/2022

TESTED DATE : 24/03/2022-01/04/2022

STACK DESCRIPTION

Height :	34.90	m	Type Of Process :	Combustion
Diameter :	3.65	m	Type Of Fuel :	Natural Gas
Temperature :	108.00	°C	Operation Capacity :	39.00 MW
Air Velocity :	13.71	m/s	Oxygen Content :	14.42 %
Flow rate ⁴ :	106.87	m ³ /s	Barometric Pressure :	755.50 mm.Hg
Moisture Content :	4.18	%	Atmospheric Temperature :	34.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ⁴		STD	UNIT
			14.42 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	10:30-11:05	4.2	9.0	54 ¹ , 60 ²	mg/m ³
(TSP)			0.4489	-	4.57 ¹	g/s
Oxides of Nitrogen	Chemical Absorption, Colorimetric	11:00-11:05	32.3	69.3	-	mg/m ³
(NO _x as NO ₂)			17.2	36.9	100 ¹ , 120 ²	ppm
			3.4519	-	20.71 ¹	g/s
Carbon monoxide	Bag, Non Dispersive Infrared	11:20-11:30	2.4	5.1	790 ³	mg/m ³
(CO)			2.1	4.5	690 ³	ppm
			0.2565	-	-	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. WARAKORN VITAYASEWEE (ว-003-ก-7283)

Examined By

(MISS APIRADEE CHUEN-AROM)

(ว-003-ก-4377)

06/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

06/04/2022

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Request No. ATR6503054

Report No. 6503-0988 - 6503-0990

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 : 28/03/2022 SAMPLE NO. : A65030988 - A65030990
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	21-22/03/2022	0.024	0.33	mg/m ³
		22-23/03/2022	0.035	0.33	mg/m ³
		23-24/03/2022	0.037	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 Klinsoon)

08/04/2022

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Request No. ATR6503054

Report No. 6503-0985 - 6503-0987

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 : 28/03/2022 SAMPLE NO. : A65030985 - A65030987
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	21-22/03/2022	0.018	0.12	mg/m ³
		22-23/03/2022	0.027	0.12	mg/m ³
		23-24/03/2022	0.016	0.12	mg/m ³

REMARK:¹ Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

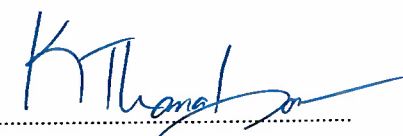
* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

08/04/2022

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Request No. ATR6503054

Report No. 6503-0994 - 6503-0996

TEST REPORT

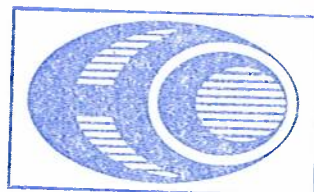
CUSTOMER : Egco Engineering & Service Co., Ltd.
 ADDRESS : 222 Moo 8 T. Mapkha A. NihomPattana, Rayong 21180
 SAMPLE SOURCE : Egco Cogen Power Plant
 SAMPLE NAME : Mab Kha Temple
 RECEIVED DATE : 28/03/2022 SAMPLE NO. : A65030994 - A65030996
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	21-22/03/2022	0.036	0.33	mg/m ³
		22-23/03/2022	0.028	0.33	mg/m ³
		23-24/03/2022	0.033	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 Klinsoon)

08/04/2022

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Request No. ATR6503054

Report No. 6503-0991 - 6503-0993

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 : Mab Kha Temple
 RECEIVED DATE : 28/03/2022 SAMPLE NO. : A65030991 - A65030993
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	21-22/03/2022	0.020	0.12	mg/m ³
		22-23/03/2022	0.019	0.12	mg/m ³
		23-24/03/2022	0.021	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)

08/04/2022

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Request No. ATR6503054

Report No. 6503-1000 - 6503-1002

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 : 28/03/2022 SAMPLE NO. : A65031000 - A65031002
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	21-22/03/2022	0.032	0.33	mg/m ³
		22-23/03/2022	0.034	0.33	mg/m ³
		23-24/03/2022	0.036	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)

08/04/2022

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Request No. ATR6503054

Report No. 6503-0997 - 6503-0999

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 : 28/03/2022 SAMPLE NO. : A65030997 - A65030999
 TESTED DATE : 28/03/2022-05/04/2022 REPORTED DATE : 08/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹⁾	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	21-22/03/2022	0.020	0.12	mg/m ³
		22-23/03/2022	0.023	0.12	mg/m ³
		23-24/03/2022	0.029	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)

08/04/2022

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ACCREDITED LABORATORY
ISO IEC 17025

Request No. LA65-R0372

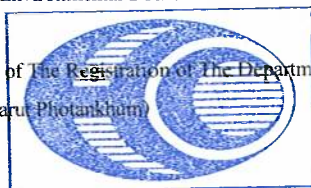
Report No. R6503-1590 – R6503-1592

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 3138

SAMPLE NO. : 04084-04086
 SAMPLING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
11:00 – 12:00 ³	0.005	0.005	0.004	ppm
12:00 – 13:00	0.005	0.005	0.004	ppm
13:00 – 14:00	0.005	0.005	0.004	ppm
14:00 – 15:00	0.005	0.005	0.004	ppm
15:00 – 16:00	0.005	0.005	0.004	ppm
16:00 – 17:00	0.005	0.005	0.005	ppm
17:00 – 18:00	0.005	0.005	0.005	ppm
18:00 – 19:00	0.006	0.005	0.005	ppm
19:00 – 20:00	0.006	0.005	0.004	ppm
20:00 – 21:00	0.006	0.005	0.005	ppm
21:00 – 22:00	0.005	0.004	0.005	ppm
22:00 – 23:00	0.006	0.004	0.005	ppm
23:00 – 00:00	0.005	0.005	0.004	ppm
00:00 – 01:00	0.006	0.004	0.004	ppm
01:00 – 02:00	0.006	0.005	0.004	ppm
02:00 – 03:00	0.006	0.005	0.004	ppm
03:00 – 04:00	0.006	0.005	0.004	ppm
04:00 – 05:00	0.005	0.005	0.004	ppm
05:00 – 06:00	0.005	0.004	0.004	ppm
06:00 – 07:00	0.005	0.005	0.004	ppm
07:00 – 08:00	0.005	0.005	0.005	ppm
08:00 – 09:00	0.005	0.004	0.004	ppm
09:00 – 10:00	0.005	0.005	0.004	ppm
10:00 – 11:00	0.005	0.004	0.004	ppm
Maximum 1 hr.	0.006	0.005	0.005	ppm
Average 24 hr.	0.005	0.005	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 Photankum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/03/2022

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Request No. LA65-R0372

Report No. R6503-1578 – R6503-1580

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 3220

SAMPLE NO. : 04072-04074
SAMPLING DATE : 21-24/03/2022
RECEIVED DATE : 24/03/2022
REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
10:00 – 11:00 ³	0.051	0.055	0.036	ppm
11:00 – 12:00	0.036	0.065	0.033	ppm
12:00 – 13:00	0.034	0.066	0.025	ppm
13:00 – 14:00	0.025	0.048	0.034	ppm
14:00 – 15:00	0.034	0.041	0.053	ppm
15:00 – 16:00	0.054	0.042	0.050	ppm
16:00 – 17:00	0.050	0.043	0.042	ppm
17:00 – 18:00	0.053	0.045	0.032	ppm
18:00 – 19:00	0.056	0.047	0.026	ppm
19:00 – 20:00	0.066	0.078	0.037	ppm
20:00 – 21:00	0.072	0.078	0.032	ppm
21:00 – 22:00	0.046	0.079	0.034	ppm
22:00 – 23:00	0.042	0.053	0.034	ppm
23:00 – 00:00	0.033	0.046	0.038	ppm
00:00 – 01:00	0.036	0.038	0.025	ppm
01:00 – 02:00	0.035	0.040	0.022	ppm
02:00 – 03:00	0.032	0.038	0.023	ppm
03:00 – 04:00	0.038	0.047	0.021	ppm
04:00 – 05:00	0.048	0.049	0.019	ppm
05:00 – 06:00	0.054	0.043	0.020	ppm
06:00 – 07:00	0.042	0.036	0.021	ppm
07:00 – 08:00	0.041	0.033	0.023	ppm
08:00 – 09:00	0.034	0.043	0.029	ppm
09:00 – 10:00	0.039	0.051	0.021	ppm
Maximum 1 hr.	0.072	0.079	0.053	ppm
Average 24 hr.	0.044	0.050	0.030	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 Photakunam)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/03/2022

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Request No. LA65-R0372

Report No. R6503-1584 – R6503-1586

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 Ngong
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3137

SAMPLE NO. : 04078-04080
SAMPLING DATE : 21-24/03/2022
RECEIVED DATE : 24/03/2022
REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
11:00 – 12:00 ³	0.007	0.009	0.010	ppm
12:00 – 13:00	0.008	0.009	0.012	ppm
13:00 – 14:00	0.010	0.009	0.013	ppm
14:00 – 15:00	0.010	0.009	0.014	ppm
15:00 – 16:00	0.011	0.009	0.015	ppm
16:00 – 17:00	0.011	0.008	0.015	ppm
17:00 – 18:00	0.010	0.009	0.015	ppm
18:00 – 19:00	0.009	0.008	0.015	ppm
19:00 – 20:00	0.009	0.008	0.014	ppm
20:00 – 21:00	0.009	0.008	0.013	ppm
21:00 – 22:00	0.008	0.008	0.013	ppm
22:00 – 23:00	0.008	0.007	0.013	ppm
23:00 – 00:00	0.008	0.007	0.013	ppm
00:00 – 01:00	0.008	0.007	0.013	ppm
01:00 – 02:00	0.008	0.008	0.013	ppm
02:00 – 03:00	0.008	0.007	0.013	ppm
03:00 – 04:00	0.008	0.007	0.013	ppm
04:00 – 05:00	0.008	0.007	0.013	ppm
05:00 – 06:00	0.008	0.007	0.013	ppm
06:00 – 07:00	0.008	0.007	0.013	ppm
07:00 – 08:00	0.008	0.006	0.013	ppm
08:00 – 09:00	0.008	0.007	0.013	ppm
09:00 – 10:00	0.009	0.007	0.014	ppm
10:00 – 11:00	0.010	0.006	0.014	ppm
Maximum 1 hr.	0.011	0.009	0.015	ppm
Average 24 hr.	0.009	0.008	0.013	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 Photanakhun)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/03/2022

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Request No. LA65-R0372

Report No. R6503-1593 – R6503-1595

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 ENOAIT20002469

SAMPLE NO. : 04087-04089
 SAMPLING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
11:00 – 12:00 ²	<0.001	<0.001	<0.001	ppm
12:00 – 13:00	<0.001	<0.001	<0.001	ppm
13:00 – 14:00	<0.001	<0.001	<0.001	ppm
14:00 – 15:00	<0.001	<0.001	<0.001	ppm
15:00 – 16:00	<0.001	<0.001	<0.001	ppm
16:00 – 17:00	<0.001	<0.001	<0.001	ppm
17:00 – 18:00	<0.001	<0.001	<0.001	ppm
18:00 – 19:00	<0.001	<0.001	<0.001	ppm
19:00 – 20:00	<0.001	<0.001	<0.001	ppm
20:00 – 21:00	<0.001	<0.001	<0.001	ppm
21:00 – 22:00	<0.001	<0.001	<0.001	ppm
22:00 – 23:00	<0.001	<0.001	<0.001	ppm
23:00 – 00:00	<0.001	<0.001	<0.001	ppm
00:00 – 01:00	<0.001	<0.001	<0.001	ppm
01:00 – 02:00	<0.001	<0.001	<0.001	ppm
02:00 – 03:00	<0.001	<0.001	<0.001	ppm
03:00 – 04:00	<0.001	<0.001	<0.001	ppm
04:00 – 05:00	<0.001	<0.001	<0.001	ppm
05:00 – 06:00	<0.001	<0.001	<0.001	ppm
06:00 – 07:00	<0.001	<0.001	<0.001	ppm
07:00 – 08:00	<0.001	<0.001	<0.001	ppm
08:00 – 09:00	<0.001	<0.001	<0.001	ppm
09:00 – 10:00	<0.001	<0.001	<0.001	ppm
10:00 – 11:00	<0.001	<0.001	<0.001	ppm
Maximum 1 hr.	<0.001	<0.001	<0.001	ppm
Average 24 hr.	<0.001	<0.001	<0.001	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. Tummarut Photanachum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

31/03/2022

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

Request No. LA65-R0372

Report No. R6503-1581 – R6503-1583

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 200A S/N ENOAI200E03217

SAMPLE NO. : 04075-04077
 SAMPLING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
10:00 – 11:00 ²	0.006	0.002	0.003	ppm
11:00 – 12:00	0.005	0.002	0.003	ppm
12:00 – 13:00	0.004	0.003	0.004	ppm
13:00 – 14:00	0.003	0.004	0.003	ppm
14:00 – 15:00	0.003	0.002	0.008	ppm
15:00 – 16:00	0.004	0.002	0.013	ppm
16:00 – 17:00	0.006	0.004	0.016	ppm
17:00 – 18:00	0.008	0.006	0.016	ppm
18:00 – 19:00	0.005	0.006	0.015	ppm
19:00 – 20:00	0.004	0.006	0.014	ppm
20:00 – 21:00	0.007	0.008	0.006	ppm
21:00 – 22:00	0.006	0.008	0.005	ppm
22:00 – 23:00	0.005	0.006	0.007	ppm
23:00 – 00:00	0.004	0.005	0.004	ppm
00:00 – 01:00	0.003	0.005	0.004	ppm
01:00 – 02:00	0.002	0.004	0.004	ppm
02:00 – 03:00	0.002	0.003	0.004	ppm
03:00 – 04:00	0.003	0.003	0.002	ppm
04:00 – 05:00	0.003	0.003	0.002	ppm
05:00 – 06:00	0.005	0.004	0.002	ppm
06:00 – 07:00	0.003	0.002	0.002	ppm
07:00 – 08:00	0.003	0.002	0.002	ppm
08:00 – 09:00	0.004	0.005	0.004	ppm
09:00 – 10:00	0.003	0.006	0.004	ppm
Maximum 1 hr.	0.008	0.008	0.016	ppm
Average 24 hr.	0.004	0.004	0.006	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. Tummarut Photakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

31/03/2022

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

Request No. LA65-R0372

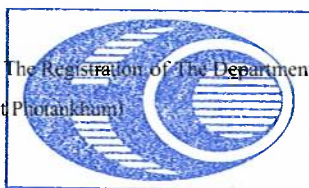
Report No. R6503-1587 – R6503-1589

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* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model T200 S/N ENOAIT20002467

SAMPLE NO. : 04081-04083
 SAMPLING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME / DATE	21-22/03/2022	22-23/03/2022	23-24/03/2022	UNIT
11:00 – 12:00 ²	0.024	0.004	<0.001	ppm
12:00 – 13:00	0.030	0.003	0.003	ppm
13:00 – 14:00	0.031	<0.001	0.002	ppm
14:00 – 15:00	0.036	<0.001	0.001	ppm
15:00 – 16:00	0.016	0.007	0.008	ppm
16:00 – 17:00	0.017	0.010	0.014	ppm
17:00 – 18:00	0.023	0.011	0.010	ppm
18:00 – 19:00	0.027	0.010	0.001	ppm
19:00 – 20:00	0.028	0.012	0.003	ppm
20:00 – 21:00	0.027	0.013	0.003	ppm
21:00 – 22:00	0.020	0.013	0.005	ppm
22:00 – 23:00	0.017	0.011	0.004	ppm
23:00 – 00:00	0.013	0.007	0.005	ppm
00:00 – 01:00	0.011	0.005	0.005	ppm
01:00 – 02:00	0.007	0.005	0.005	ppm
02:00 – 03:00	0.003	0.003	0.005	ppm
03:00 – 04:00	0.004	0.004	0.006	ppm
04:00 – 05:00	0.002	0.005	0.008	ppm
05:00 – 06:00	0.002	0.005	0.008	ppm
06:00 – 07:00	0.002	0.004	0.007	ppm
07:00 – 08:00	0.001	0.002	0.007	ppm
08:00 – 09:00	0.004	0.003	0.008	ppm
09:00 – 10:00	0.001	0.004	0.003	ppm
10:00 – 11:00	0.002	0.003	0.003	ppm
Maximum 1 hr.	0.036	0.013	0.014	ppm
Average 24 hr.	0.014	0.007	0.005	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. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/03/2022

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

Wind Speed & Wind Direction

Request No. LA65-R0372

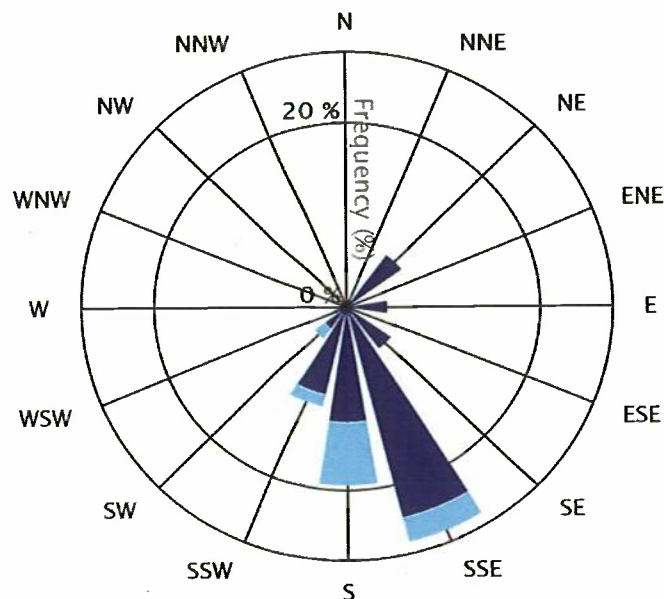
Egco Engineering & Service Co., Ltd.

Sample No. 04102

Sampling Source : Nikhom Wittaya School

Sampling Date : March 21-24, 2022

Calm 20.8 %



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	6.9	0.0	0.0	0.0	0.0	0.0	6.9
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	4.2	0.0	0.0	0.0	0.0	0.0	4.2
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	5.6	0.0	0.0	0.0	0.0	0.0	5.6
SSE	23.6	2.8	0.0	0.0	0.0	0.0	26.4
S	12.5	6.9	0.0	0.0	0.0	0.0	19.4
SSW	9.7	1.4	0.0	0.0	0.0	0.0	11.1
SW	2.8	1.4	0.0	0.0	0.0	0.0	4.2
WSW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	20.8						

**Wind Speed & Wind Direction**

Request No. LA65-R0372

Egco Engineering & Service Co., Ltd.

Sample No. 04102

Sampling Source : Nikhom Wittaya School

Sampling Date : March 21-24, 2022

Time	March 21-22, 2022		March 22-23, 2022		March 23-24, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	0.9	SSE	2.2	SSE	0.4	SSW
12:00-13:00	1.3	SSE	2.2	SSE	0.9	SSE
13:00-14:00	1.3	SSE	2.7	S	0.4	SE
14:00-15:00	1.8	SSE	2.7	S	0.4	SW
15:00-16:00	2.7	S	2.2	SSW	0.4	SSW
16:00-17:00	2.2	S	1.3	S	0.9	S
17:00-18:00	1.8	S	0.9	SSE	2.2	SW
18:00-19:00	1.8	S	1.3	S	1.8	SSW
19:00-20:00	0.9	SSE	1.3	S	1.3	SSW
20:00-21:00	0.4	SSE	0.9	SSE	0.9	SSW
21:00-22:00	0.9	SSE	0.4	SSE	0.4	S
22:00-23:00	0.9	SSE	0.4	SSE	0.0	-
23:00-00:00	0.4	SE	0.0	-	0.4	E
00:00-01:00	0.4	SE	0.0	-	0.0	-
01:00-02:00	0.0	-	0.4	NE	0.0	-
02:00-03:00	0.0	-	0.4	NE	0.0	-
03:00-04:00	0.0	-	0.4	NE	0.0	-
04:00-05:00	0.9	SW	0.4	E	0.4	NE
05:00-06:00	0.4	SSE	0.4	E	0.4	NE
06:00-07:00	0.4	SSE	0.0	-	0.0	-
07:00-08:00	0.0	-	0.9	SSW	0.0	-
08:00-09:00	0.4	SE	0.4	WSW	0.0	-
09:00-10:00	1.3	SSE	0.9	S	0.9	S
10:00-11:00	1.8	SSE	0.9	SSW	2.2	S

Wind Speed & Wind Direction

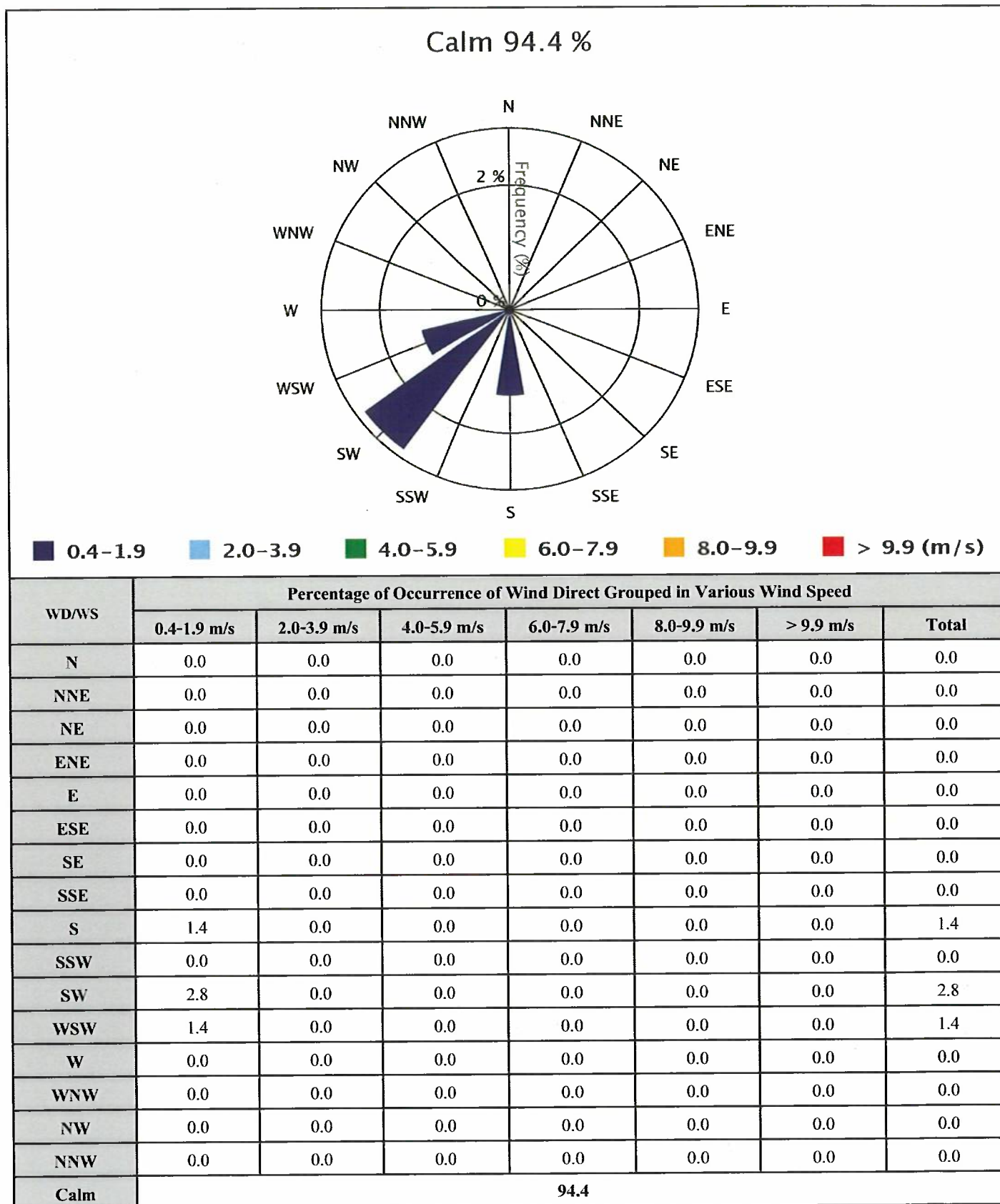
Request No. LA65-R0372

Egco Engineering & Service Co., Ltd.

Sample No. 04103

Sampling Source : Map Kha Temple

Sampling Date : March 21-24, 2022



Wind Speed & Wind Direction

Request No. LA65-R0372

Egco Engineering & Service Co., Ltd.

Sample No. 04103

Sampling Source : Map Kha Temple

Sampling Date : March 21-24, 2022

Time	March 21-22, 2022		March 22-23, 2022		March 23-24, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.0	-	0.0	-	0.0	-
11:00-12:00	0.0	-	0.0	-	0.0	-
12:00-13:00	0.4	S	0.0	-	0.0	-
13:00-14:00	0.0	-	0.0	-	0.0	-
14:00-15:00	0.0	-	0.4	WSW	0.0	-
15:00-16:00	0.4	SW	0.0	-	0.0	-
16:00-17:00	0.0	-	0.0	-	0.0	-
17:00-18:00	0.0	-	0.0	-	0.4	SW
18:00-19:00	0.0	-	0.0	-	0.0	-
19:00-20:00	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.0	-	0.0	-
21:00-22:00	0.0	-	0.0	-	0.0	-
22:00-23:00	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	0.0	-	0.0	-
01:00-02:00	0.0	-	0.0	-	0.0	-
02:00-03:00	0.0	-	0.0	-	0.0	-
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	-
09:00-10:00	0.0	-	0.0	-	0.0	-

Wind Speed & Wind Direction

Request No. LA65-R0372

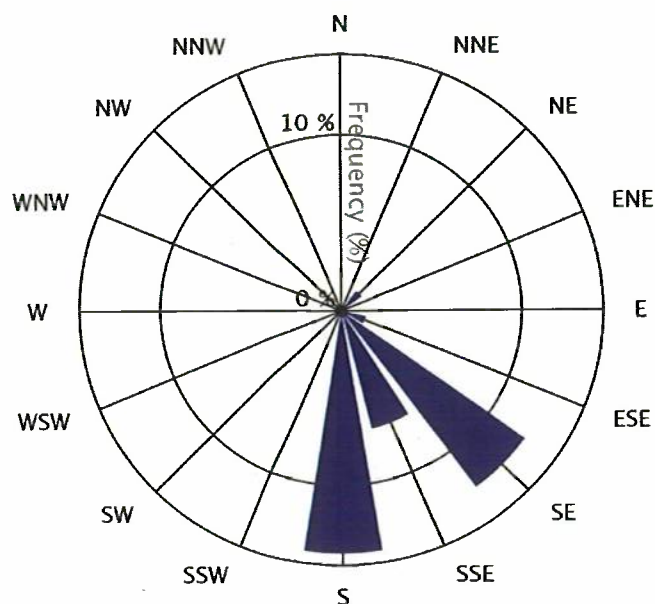
Egco Engineering & Service Co., Ltd.

Sample No. 04104

Sampling Source : Ban Samnak Ai Ngon

Sampling Date : March 21-24, 2022

Calm 63.9 %


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

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	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	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	1.4	0.0	0.0	0.0	0.0	0.0	1.4
SE	12.5	0.0	0.0	0.0	0.0	0.0	12.5
SSE	6.9	0.0	0.0	0.0	0.0	0.0	6.9
S	13.9	0.0	0.0	0.0	0.0	0.0	13.9
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	63.9						

**Wind Speed & Wind Direction**

Request No. LA65-R0372

Egco Engineering & Service Co., Ltd.

Sample No. 04104

Sampling Source : Ban Samnak Ai Ngon

Sampling Date : March 21-24, 2022

Time	March 21-22, 2022		March 22-23, 2022		March 23-24, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.0	-	1.8	SSE	0.0	-
11:00-12:00	0.0	-	1.3	SSE	0.0	-
12:00-13:00	0.9	SE	0.9	SE	0.4	SE
13:00-14:00	0.9	SE	1.3	SSE	0.4	SE
14:00-15:00	0.9	S	1.3	SSE	0.0	-
15:00-16:00	1.3	S	0.9	S	0.4	S
16:00-17:00	0.9	S	0.4	S	0.9	SE
17:00-18:00	0.9	S	0.4	SE	0.9	S
18:00-19:00	0.4	S	0.4	SE	0.4	S
19:00-20:00	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.0	-	0.0	-
21:00-22:00	0.0	-	0.0	-	0.0	-
22:00-23:00	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	0.0	-	0.0	-
01:00-02:00	0.0	-	0.0	-	0.0	-
02:00-03:00	0.0	-	0.0	-	0.0	-
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	-	0.4	SSE	0.0	-
08:00-09:00	0.4	NE	0.0	-	0.0	-
09:00-10:00	1.3	ESE	0.4	SE	0.0	-

Request No. LA65-R0372

Report No. R6503-1596 – R6503-1598

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_{max}

DETERMINATION METHOD : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N G301661 : Type 2

SAMPLE NO. : 04090-04092

MEASURING DATE : 21-24/03/2022

RECEIVED DATE : 24/03/2022

REPORTED DATE : 31/03/2022

TIME \ DATE	21-22/03/2022 (L_{eq})	22-23/03/2022 (L_{eq})	23-24/03/2022 (L_{eq})	UNIT
10:00 – 11:00 ³	61.3	63.6	64.7	dB(A)
11:00 – 12:00	62.9	63.7	64.0	dB(A)
12:00 – 13:00	61.8	63.9	64.2	dB(A)
13:00 – 14:00	61.6	63.3	63.3	dB(A)
14:00 – 15:00	61.9	63.6	63.6	dB(A)
15:00 – 16:00	64.4	63.7	63.8	dB(A)
16:00 – 17:00	64.4	63.7	63.2	dB(A)
17:00 – 18:00	64.3	63.8	63.6	dB(A)
18:00 – 19:00	64.5	63.7	64.5	dB(A)
19:00 – 20:00	68.1	67.1	63.9	dB(A)
20:00 – 21:00	64.7	64.1	63.5	dB(A)
21:00 – 22:00	64.8	64.0	63.6	dB(A)
22:00 – 23:00	64.5	64.0	63.1	dB(A)
23:00 – 00:00	64.7	64.6	62.4	dB(A)
00:00 – 01:00	64.8	64.9	63.0	dB(A)
01:00 – 02:00	64.8	64.4	64.4	dB(A)
02:00 – 03:00	64.8	64.4	64.8	dB(A)
03:00 – 04:00	64.9	65.7	64.6	dB(A)
04:00 – 05:00	64.8	65.1	65.2	dB(A)
05:00 – 06:00	65.0	65.7	64.8	dB(A)
06:00 – 07:00	66.2	69.4	64.4	dB(A)
07:00 – 08:00	65.0	72.7	65.0	dB(A)
08:00 – 09:00	64.6	70.4	65.0	dB(A)
09:00 – 10:00	64.0	66.7	64.0	dB(A)
L_{eq} 24 hr.	64.5	66.1	64.1	dB(A)
L_{max}	71.3	72.2	70.6	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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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ACCREDITED LABORATORY
ISO/IEC 17025

Request No. LA65-R0372

Report No. R6503-1599 – R6503-1601

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_{min}
 DETERMINATION METHOD : ISO 1996-1:2016
 INSTRUMENT : Integrated Sound Level Meter
 S/N G301039 : Type 2

SAMPLE NO. : 04093-04095
 MEASURING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME \ DATE	21-22/03/2022 (L_{eq})	22-23/03/2022 (L_{eq})	23-24/03/2022 (L_{eq})	UNIT
10:00 – 11:00 ³	57.1	53.2	51.8	dB(A)
11:00 – 12:00	55.5	54.0	52.1	dB(A)
12:00 – 13:00	51.1	53.3	51.3	dB(A)
13:00 – 14:00	52.7	52.8	51.2	dB(A)
14:00 – 15:00	53.8	53.2	52.0	dB(A)
15:00 – 16:00	53.6	52.3	53.2	dB(A)
16:00 – 17:00	52.4	52.4	53.8	dB(A)
17:00 – 18:00	54.9	52.5	52.7	dB(A)
18:00 – 19:00	53.5	51.3	55.4	dB(A)
19:00 – 20:00	53.1	51.4	57.4	dB(A)
20:00 – 21:00	52.8	53.3	53.2	dB(A)
21:00 – 22:00	50.6	49.2	50.7	dB(A)
22:00 – 23:00	48.5	46.9	46.3	dB(A)
23:00 – 00:00	48.4	43.7	44.5	dB(A)
00:00 – 01:00	47.1	43.0	43.2	dB(A)
01:00 – 02:00	45.4	40.7	43.8	dB(A)
02:00 – 03:00	47.0	50.5	44.2	dB(A)
03:00 – 04:00	46.6	41.3	43.0	dB(A)
04:00 – 05:00	47.8	52.6	43.5	dB(A)
05:00 – 06:00	48.2	56.6	46.9	dB(A)
06:00 – 07:00	52.1	57.1	50.6	dB(A)
07:00 – 08:00	53.2	53.5	52.8	dB(A)
08:00 – 09:00	52.3	53.1	54.2	dB(A)
09:00 – 10:00	53.7	53.4	53.7	dB(A)
L_{eq} 24 hr.	52.3	52.4	51.8	dB(A)
L_{min}	56.0	58.4	54.5	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)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/03/2022

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Request No. LA65-R0372

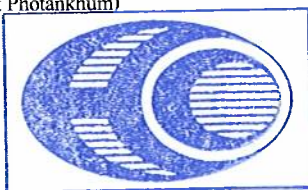
Report No. R6503-1602 – R6503-1604

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* : L_{eq} 1 hr., L_{eq} 24 hr., & L_{day}
 DETERMINATION METHOD : ISO 1996-1:2016
 INSTRUMENT : Integrated Sound Level Meter
 S/N G301638 : Type 2

SAMPLE NO. : 04096-04098
 MEASURING DATE : 21-24/03/2022
 RECEIVED DATE : 24/03/2022
 REPORTED DATE : 31/03/2022

TIME \ DATE	21-22/03/2022 (L_{eq})	22-23/03/2022 (L_{eq})	23-24/03/2022 (L_{eq})	UNIT
10:00 – 11:00 ³	63.8	57.6	57.3	dB(A)
11:00 – 12:00	67.2	58.4	56.6	dB(A)
12:00 – 13:00	64.1	51.5	55.0	dB(A)
13:00 – 14:00	52.0	51.8	53.3	dB(A)
14:00 – 15:00	55.6	51.0	53.9	dB(A)
15:00 – 16:00	62.2	53.0	52.8	dB(A)
16:00 – 17:00	63.1	49.7	52.2	dB(A)
17:00 – 18:00	65.9	56.0	50.3	dB(A)
18:00 – 19:00	62.1	51.0	53.2	dB(A)
19:00 – 20:00	53.6	58.5	56.1	dB(A)
20:00 – 21:00	46.7	47.2	47.2	dB(A)
21:00 – 22:00	46.0	50.6	48.3	dB(A)
22:00 – 23:00	45.8	46.6	46.0	dB(A)
23:00 – 00:00	46.1	43.7	44.8	dB(A)
00:00 – 01:00	44.8	44.7	46.2	dB(A)
01:00 – 02:00	47.5	44.0	45.9	dB(A)
02:00 – 03:00	51.5	55.1	48.3	dB(A)
03:00 – 04:00	46.0	65.5	47.4	dB(A)
04:00 – 05:00	44.7	46.7	49.8	dB(A)
05:00 – 06:00	46.7	64.3	50.5	dB(A)
06:00 – 07:00	47.7	66.3	56.5	dB(A)
07:00 – 08:00	56.1	62.2	56.3	dB(A)
08:00 – 09:00	54.0	54.0	53.4	dB(A)
09:00 – 10:00	52.5	55.6	53.4	dB(A)
L_{eq} 24 hr.	59.5	58.4	53.0	dB(A)
L_{day}	60.3	66.8	57.4	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)

31/03/2022

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

Request No. LA65-R0372

Report No. R6503-1605 – R6503-1607

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 G301635 : Type 2

SAMPLE NO. : 04099-04101

MEASURING DATE : 21-24/03/2022

RECEIVED DATE : 24/03/2022

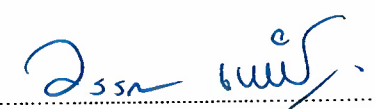
REPORTED DATE : 31/03/2022

TIME \ DATE	21-22/03/2022 (L_{eq})	22-23/03/2022 (L_{eq})	23-24/03/2022 (L_{eq})	UNIT
10:00 – 11:00 ³	64.1	58.9	59.3	dB(A)
11:00 – 12:00	56.0	59.2	59.5	dB(A)
12:00 – 13:00	57.1	56.0	57.5	dB(A)
13:00 – 14:00	55.8	55.7	56.9	dB(A)
14:00 – 15:00	53.7	55.3	56.2	dB(A)
15:00 – 16:00	54.9	55.0	55.1	dB(A)
16:00 – 17:00	55.2	54.5	55.1	dB(A)
17:00 – 18:00	56.9	56.0	57.7	dB(A)
18:00 – 19:00	56.4	61.3	58.5	dB(A)
19:00 – 20:00	53.0	59.8	52.8	dB(A)
20:00 – 21:00	53.1	51.6	52.2	dB(A)
21:00 – 22:00	54.5	50.1	49.7	dB(A)
22:00 – 23:00	50.2	50.9	50.7	dB(A)
23:00 – 00:00	49.5	52.1	49.9	dB(A)
00:00 – 01:00	47.6	48.8	49.3	dB(A)
01:00 – 02:00	49.1	49.3	48.5	dB(A)
02:00 – 03:00	50.0	64.9	49.0	dB(A)
03:00 – 04:00	50.0	53.5	53.5	dB(A)
04:00 – 05:00	54.8	67.4	56.8	dB(A)
05:00 – 06:00	58.9	68.8	59.2	dB(A)
06:00 – 07:00	61.8	64.4	60.9	dB(A)
07:00 – 08:00	60.2	59.8	59.1	dB(A)
08:00 – 09:00	57.3	58.3	57.0	dB(A)
09:00 – 10:00	55.6	58.8	56.6	dB(A)
L_{eq} 24 hr.	56.8	60.7	56.4	dB(A)
L_{dn}	62.2	69.3	62.2	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)

31/03/2022

 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501249

Report No : 6502-0279

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65011066

Sample Name : Waste Water Inlet

Sampling Date : 12/01/2022

Sampling By : ETC

Sampling Time : 9:10 AM

Sampling Method : Grab

Received Date : 13/01/2022

Tested Date : 13/01/2022 - 22/01/2022

Reported Date : 04/02/2022

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	< 2.0
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	< 40
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0
pH (on site) *		Electrometric	8.0
Temperature *	°C	Laboratory and Field	35
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	992

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,

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.

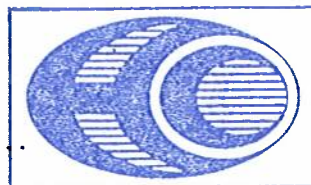
3. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-8334)*

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

04/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

04/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501249

Report No : 6502-0279

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเจน

Sample No : W 65011066

Sample Name : Waste Water Inlet

Sampling Date : 12/01/2022

Sampling By : ETC

Sampling Time : 9:10 AM

Sampling Method : Grab

Received Date : 13/01/2022

Tested Date : 13/01/2022 - 22/01/2022

Reported Date : 04/02/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 degree celsius	1,108

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. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-อ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

04/02/2022

Test Report

Request No : W6502283

Report No : 6503-0493

Customer : บริษัท เอ็กโก เอ็นจิเนียริ่ง แอนด์ เซอร์วิส จำกัด*
Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180*
Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน*
Sample Name : Waste Water Inlet*
Sampling By : ETC*
Sampling Method : Grab*
Tested Date : 10/02/2022 - 07/03/2022

Sample No : W 65021140
Sampling Date : 09/02/2022*
Sampling Time : 9:55 AM*
Received Date : 10/02/2022
Reported Date : 08/03/2022

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	8.3
Temperature [*]	°C	Laboratory and Field Method	35
Total Dissolved Solids [#]	mg/l	Dried at 180 C (SM:2540C)	1,032

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. Supharerk Phatklang (๖-003-๖-5637)*

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๖-4377)

08/03/2022



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(๖-003-๖-2205)

08/03/2022

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

Test Report

Request No : W6502283

Report No : 6503-0493

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเด้น

Sample No : W 65021140

Sample Name : Waste Water Inlet

Sampling Date : 09/02/2022

Sampling By : ETC

Sampling Time : 9:55 AM

Sampling Method : Grab

Received Date : 10/02/2022

Tested Date : 10/02/2022 - 07/03/2022

Reported Date : 08/03/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,092

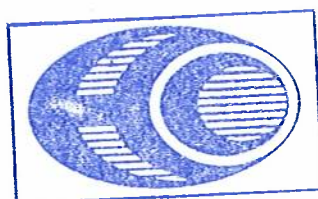
Physical Apperance : 1. Sample : lightly SS

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. Supharerk Phatklang (1-003-0-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

08/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6503474

Report No : 6504-0698

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด*

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมน้ำจืด จังหวัดระยอง 21180*

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน*

Sample No : W 65031880

Sample Name : Waste Water Inlet*

Sampling Date : 18/03/2022*

Sampling By : ETC*

Sampling Time : 11:35 AM*

Sampling Method : Grab*

Received Date : 19/03/2022

Tested Date : 21/03/2022 - 31/03/2022

Reported Date : 11/04/2022

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	8.1
Temperature *	°C	Laboratory and Field Method	32
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	872

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. Supharerk Phatklang (จ-003-0-5637)*

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

11/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

11/04/2022

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

Test Report

Request No : W6503474

Report No : 6504-0698

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65031880

Sample Name : Waste Water Inlet

Sampling Date : 18/03/2022

Sampling By : ETC

Sampling Time : 11:35 AM

Sampling Method : Grab

Received Date : 19/03/2022

Tested Date : 21/03/2022 - 31/03/2022

Reported Date : 11/04/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,008

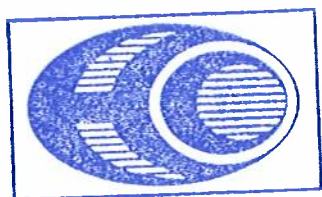
Physical Apperance : 1. Sample : lightly SS

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. Supharerk Phatklang (ว-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

11/04/2022

Test Report

Request No : W6504348

Report No : 6505-0508

Customer : บริษัท เอ็กโกเอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 65041245

Sample Name : Waste Water Inlet**

Sampling Date : 18/04/2022**

Sampling By : ETC**

Sampling Time : 10:10 AM**

Sampling Method : Grab**

Received Date : 19/04/2022

Tested Date : 19/04/2022 - 26/04/2022

Reported Date : 11/05/2022

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	37
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	704

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. Parkpoom Buasawad (จ-003-ก-7280)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

11/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

11/05/2022

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

Test Report

Request No : W6504348

Report No : 6505-0508

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65041245

Sample Name : Waste Water Inlet

Sampling Date : 18/04/2022

Sampling By : ETC

Sampling Time : 10:10 AM

Sampling Method : Grab

Received Date : 19/04/2022

Tested Date : 19/04/2022 - 26/04/2022

Reported Date : 11/05/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	904

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 (๖-003-๓-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 
(Miss Apiradee Chuen-arom)
11/05/2022REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6505413

Report No : 6506-1110

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 65051561

Sample Name : Waste Water Inlet**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:40 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 01/06/2022

Reported Date : 16/06/2022

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	7.9
Temperature *	°C	Laboratory and Field Method	28
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	992

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 (จ-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

16/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

16/06/2022

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

Test Report

Request No : W6505413

Report No : 6506-1110

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65051561

Sample Name : Waste Water Inlet

Sampling Date : 18/05/2022

Sampling By : ETC

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 01/06/2022

Reported Date : 16/06/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,160

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 (3-003-ก-7279)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

16/06/2022

Test Report

Request No : W6506445

Report No : 6507-0372

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 65061603

Sample Name : Waste Water Inlet**

Sampling Date : 16/06/2022**

Sampling By : ETC**

Sampling Time : 9:35 AM**

Sampling Method : Grab**

Received Date : 17/06/2022

Tested Date : 17/06/2022 - 25/06/2022

Reported Date : 06/07/2022

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)	41
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)	1,348

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 (ว-003-ก-7279)*

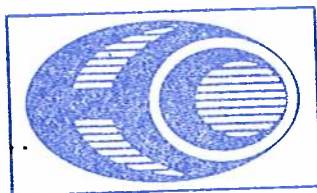
4. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

06/07/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(ว-003-ก-2205)

06/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6506445

Report No : 6507-0372

Customer : บริษัท เอ็กโกเอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65061603

Sample Name : Waste Water Inlet

Sampling Date : 16/06/2022

Sampling By : ETC

Sampling Time : 9:35 AM

Sampling Method : Grab

Received Date : 17/06/2022

Tested Date : 17/06/2022 - 25/06/2022

Reported Date : 06/07/2022

Parameter	Unit	Method	Result
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,532

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 (3-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

06/07/2022

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

Test Report

Request No : W6501249

Report No : 6502-0280


Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด
Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180
Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน
Sample Name : Waste Water Outlet
Sampling By : ETC
Sampling Method : Grab
Tested Date : 13/01/2022 - 22/01/2022

Sample No : W 65011067
Sampling Date : 12/01/2022
Sampling Time : 9:07 AM
Received Date : 13/01/2022
Reported Date : 04/02/2022


Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	3.8	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	< 40	≤120
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤5
pH (on site) *		Electrometric	7.8	5.5-9.0
Temperature *	°C	Laboratory and Field	30	≤40
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	938	≤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,
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 (จ-003-ก-8334)*

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
04/02/2022



Approved By : 
(Mr. Kawee Suthasub)
(จ-003-ก-2205)
04/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501249

Report No : 6502-0280

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65011067

Sample Name : Waste Water Outlet

Sampling Date : 12/01/2022

Sampling By : ETC

Sampling Time : 9:07 AM

Sampling Method : Grab

Received Date : 13/01/2022

Tested Date : 13/01/2022 - 22/01/2022

Reported Date : 04/02/2022

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 degree celsius	1,064	-

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. Sampling By Miss Pornpinan Viriyakusolkul (๖-003-๖-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

04/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6502283

Report No : 6503-0494

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์เซอร์วิส จำกัด*
Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180*
Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน*
Sample Name : Waste Water Outlet*
Sampling By : ETC*
Sampling Method : Grab*
Tested Date : 10/02/2022 - 07/03/2022

Sample No : W 65021141
Sampling Date : 09/02/2022*
Sampling Time : 9:50 AM*
Received Date : 10/02/2022
Reported Date : 08/03/2022

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	8.6	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤40
Total Dissolved Solids [#]	mg/l	Dried at 180 C (SM:2540C)	1,412	≤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,

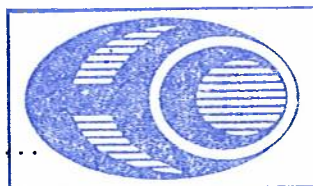
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (1-003-0-5637)*

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-0-4377)
08/03/2022



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(1-003-0-2205)
08/03/2022

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Test Report

Request No : W6502283

Report No : 6503-0494

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเจน

Sample No : W 65021141

Sample Name : Waste Water Outlet

Sampling Date : 09/02/2022

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 10/02/2022

Tested Date : 10/02/2022 - 07/03/2022

Reported Date : 08/03/2022

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,558	-

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. Supharerk Phatklang (3-003-0-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

08/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6503474

Report No : 6504-0699

Customer : บริษัท เอ็ก โก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด*

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอเนินกุ่มพัฒนา จังหวัดระยอง 21180*

Sampling Source : โรงไฟฟ้าเอ็ก โก โกลด์*

Sample No : W 65031881

Sample Name : Waste Water Outlet*

Sampling Date : 18/03/2022*

Sampling By : ETC*

Sampling Time : 11:30 AM*

Sampling Method : Grab*

Received Date : 19/03/2022

Tested Date : 21/03/2022 - 09/04/2022

Reported Date : 11/04/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand [#]	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	5.8	≤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	6.8	5.5-9.0
Temperature [*]	°C	Laboratory and Field Method	29	≤40
Total Dissolved Solids [#]	mg/l	Dried at 180 C (SM:2540C)	84	≤3000

Physical Apperance : 1. Sample : slightly - gray, 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. Supharerk Phatklang (1-003-ก-5637)*

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

11/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(1-003-ก-2205)

11/04/2022

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

Test Report

Request No : W6503474

Report No : 6504-0699

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบตา อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65031881

Sample Name : Waste Water Outlet

Sampling Date : 18/03/2022

Sampling By : ETC

Sampling Time : 11:30 AM

Sampling Method : Grab

Received Date : 19/03/2022

Tested Date : 21/03/2022 - 09/04/2022

Reported Date : 11/04/2022

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	116	-

Physical Appearance : 1. Sample : slightly - gray, lightly SS

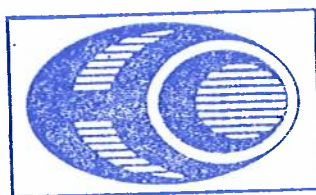
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

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 (๓-๐๐3-๑-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

11/04/2022

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

Test Report

Request No : W6504348

Report No : 6505-0509

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบจำ อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 65041246

Sample Name : Waste Water Outlet**

Sampling Date : 18/04/2022**

Sampling By : ETC**

Sampling Time : 10:00 AM**

Sampling Method : Grab**

Received Date : 19/04/2022

Tested Date : 19/04/2022 - 09/05/2022

Reported Date : 11/05/2022

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	8.5	5.5-9.0
Temperature [*]	°C	Laboratory and Field Method	34	≤40
Total Dissolved Solids [#]	mg/l	Dried at 180 C (SM:2540C)	200	≤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 Mr. Parkpoom Buasawad (จ-003-ก-7280)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

11/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

11/05/2022

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

Request No : W6504348

Report No : 6505-0509

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลนาบ่า อำเภอนิคมน้ำจืด จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65041246

Sample Name : Waste Water Outlet

Sampling Date : 18/04/2022

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 19/04/2022

Tested Date : 19/04/2022 - 09/05/2022

Reported Date : 11/05/2022

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	264	-

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 Mr. Parkpoom Buasawad (๖-003-ก-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

11/05/2022

Test Report

Request No : W6505413

Report No : 6506-1111

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้า เอ็กโก โกลเด้น**

Sample No : W 65051562

Sample Name : Waste Water Outlet**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:50 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 13/06/2022

Reported Date : 16/06/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.9	≤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	31	≤40
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	1,276	≤3000

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. /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 (1-003-ก-7279)*

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

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

16/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(1-003-ก-2205)

16/06/2022

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



Test Report

Request No : W6505413

Report No : 6506-1111

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน

Sample No : W 65051562

Sample Name : Waste Water Outlet

Sampling Date : 18/05/2022

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 13/06/2022

Reported Date : 16/06/2022

Parameter	Unit	Method	Result	Standard/ ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	1,468	-

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. /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 (๖-003-๓-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

16/06/2022

Test Report

Request No : W6506445

Report No : 6506-0373

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด**

Address : 222 หมู่ 8 ตำบลมาบข่า อําเภอนิคมพัฒนา จังหวัดระยอง 21180**

Sampling Source : โรงไฟฟ้าเอ็กโก โกลเดน**

Sample No : W 65061604

Sample Name : Waste Water Outlet**

Sampling Date : 16/06/2022**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 17/06/2022

Tested Date : 17/06/2022 - 05/07/2022

Reported Date : 06/07/2022

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	8.5	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40
Total Dissolved Solids [#]	mg/l	Dried at 180 C (SM:2540C)	2,010	≤ 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 / Mr. Kawee Suthasub is Technical Management.

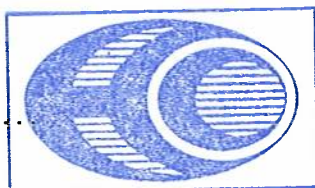
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ก-7279)*

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

Examined By :

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

06/07/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(ว-003-ก-2205)

06/07/2022

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Test Report

Request No : W6506445

Report No : 6506-0373

Customer : บริษัท เอ็กโก เอ็นจิเนียริง แอนด์ เซอร์วิส จำกัด

Address : 222 หมู่ 8 ตำบลมาบข่า อำเภอนิคมพัฒนา จังหวัดระยอง 21180

Sampling Source : โรงไฟฟ้าเอ็กโก โขเจน

Sample No : W 65061604

Sample Name : Waste Water Outlet

Sampling Date : 16/06/2022

Sampling By : ETC

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 17/06/2022

Tested Date : 17/06/2022 - 05/07/2022

Reported Date : 06/07/2022

Parameter	Unit	Method	Result	Standard ¹
Total Solids	mg/l	Dried at 103-105 C (SM:2540B)	2,305	-

Physical Apperance : 1. Sample : yellowish, lightly SS

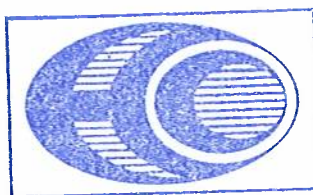
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

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)

06/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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 : Water Treatment System Control Room
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr.
DETERMINATION METHOD : In-house Method : A-DM-001 SAMPLE NO. : 02115
Based on ISO 11202:2010 MEASURING DATE : 14/02/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 15/02/2022
S/N 00310458 : Type 2 REPORTED DATE : 18/02/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:30-10:30	60.8	60.8	dB(A)
10:30-11:30	61.2	61.2	dB(A)
11:30-12:30	59.9	59.9	dB(A)
12:30-13:30	61.2	61.2	dB(A)
13:30-14:30	60.6	60.6	dB(A)
14:30-15:30	60.5	60.5	dB(A)
15:30-16:30	61.3	61.3	dB(A)
16:30-17:30	61.1	61.1	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

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

(Measurement By Ms. Thanatporn Klinsopon)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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

Request No. LA65-R05116

Report No. R6505-3066

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. : 09970
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/05/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/05/2022
S/N G301638 : Type 2 REPORTED DATE : 10/06/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:00-10:00	63.7	63.7	dB(A)
10:00-11:00	62.9	62.9	dB(A)
11:00-12:00	62.9	62.9	dB(A)
12:00-13:00	62.9	62.9	dB(A)
13:00-14:00	62.9	62.9	dB(A)
14:00-15:00	62.9	62.9	dB(A)
15:00-16:00	62.9	62.9	dB(A)
16:00-17:00	62.9	62.9	dB(A)
L_{eq} 8 hr. (TWA)	62*	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 Klinbpon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Watana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

10/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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.
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 00310456 : Type 2

SAMPLE NO. : 02114
MEASURING DATE : 14/02/2022
RECEIVED DATE : 15/02/2022
REPORTED DATE : 18/02/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:20-10:20	61.6	61.6	dB(A)
10:20-11:20	64.8	64.8	dB(A)
11:20-12:20	57.3	57.3	dB(A)
12:20-13:20	63.2	63.2	dB(A)
13:20-14:20	63.5	63.5	dB(A)
14:20-15:20	62.6	62.6	dB(A)
15:20-16:20	61.1	61.1	dB(A)
16:20-17:20	62.2	62.2	dB(A)
L_{eq} 8 hr. (TWA)	62*	62**	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 Klinsohon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatporn Klinsohon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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 : Control Room
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 09973
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/05/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/05/2022
S/N 00209071 : Type 2 REPORTED DATE : 10/06/2022

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:00-10:00	69.3	69.3	dB(A)
10:00-11:00	63.2	63.2	dB(A)
11:00-12:00	63.5	63.5	dB(A)
12:00-13:00	57.9	57.9	dB(A)
13:00-14:00	68.2	68.2	dB(A)
14:00-15:00	59.8	59.8	dB(A)
15:00-16:00	66.7	66.7	dB(A)
16:00-17:00	69.8	69.8	dB(A)
L_{eq} 8 hr. (TWA)	66*	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)

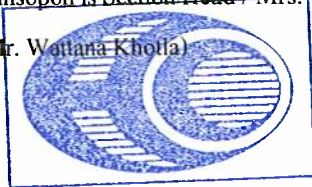
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

** 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

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

10/06/2022

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.
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 01209917 : Type 2

SAMPLE NO. : 02117
MEASURING DATE : 14/02/2022
RECEIVED DATE : 15/02/2022
REPORTED DATE : 18/02/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:10-10:10	52.6	52.6	dB(A)
10:10-11:10	45.7	45.7	dB(A)
11:10-12:10	44.4	44.4	dB(A)
12:10-13:10	46.8	46.8	dB(A)
13:10-14:10	46.8	46.8	dB(A)
14:10-15:10	46.0	46.0	dB(A)
15:10-16:10	44.4	44.4	dB(A)
16:10-17:10	46.8	46.8	dB(A)
L_{eq} 8 hr. (TWA)	47*	47**	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. Thanaporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanaporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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

Request No. LA65-R05116

Report No. R6505-3067

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. : 09971
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/05/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/05/2022
S/N 00310458 : Type 2 REPORTED DATE : 10/06/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:00-10:00	55.6	55.6	dB(A)
10:00-11:00	52.7	52.7	dB(A)
11:00-12:00	43.8	43.8	dB(A)
12:00-13:00	46.0	46.0	dB(A)
13:00-14:00	51.2	51.2	dB(A)
14:00-15:00	46.8	46.8	dB(A)
15:00-16:00	56.5	56.5	dB(A)
16:00-17:00	49.7	49.7	dB(A)
L_{eq} 8 hr. (TWA)	52*	51**	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)

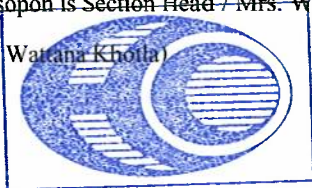
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

** 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 Mr. Wattana Khoila)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

10/06/2022

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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 : Workshop
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr.
DETERMINATION METHOD : In-house Method : A-DM-001
Based on ISO 11202:2010
INSTRUMENT : Integrated Sound Level Meter
S/N 01209916 : Type 2
SAMPLE NO. : 02116
MEASURING DATE : 14/02/2022
RECEIVED DATE : 15/02/2022
REPORTED DATE : 18/02/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:20-10:20	60.9	60.9	dB(A)
10:20-11:20	60.8	60.8	dB(A)
11:20-12:20	61.0	61.0	dB(A)
12:20-13:20	60.5	60.5	dB(A)
13:20-14:20	60.5	60.5	dB(A)
14:20-15:20	62.5	62.5	dB(A)
15:20-16:20	61.8	61.8	dB(A)
16:20-17:20	61.8	61.8	dB(A)
L_{eq} 8 hr. (TWA)	61*	61**	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 Klinsoopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatporn Klinsoopon)



Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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Request No. LA65-R05116

Report No. R6505-3068

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. : 09972
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/05/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/05/2022
S/N 00443358 : Type 2 REPORTED DATE : 10/06/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:00-10:00	64.2	64.2	dB(A)
10:00-11:00	66.9	66.9	dB(A)
11:00-12:00	55.9	55.9	dB(A)
12:00-13:00	51.9	51.9	dB(A)
13:00-14:00	57.5	57.5	dB(A)
14:00-15:00	52.4	52.4	dB(A)
15:00-16:00	55.7	55.7	dB(A)
16:00-17:00	58.1	58.1	dB(A)
L_{eq} 8 hr. (TWA)	60*	59**	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)

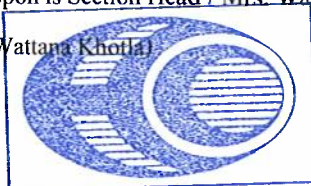
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

** 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 Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

10/06/2022

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