

คุณภาพอากาศจากแหล่งกำเนิด

Request No. LA67-0442

Report No. 6704-0183

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : ERU Stack (AOG)
 SAMPLING DATE : 22/04/2024 SAMPLE NO. : 01248
 RECEIVED DATE : 24/04/2024 SAMPLING TIME : 10:25-11:09
 TESTED DATE : 24-27/04/2024 REPORTED DATE : 29/04/2024
 STACK DESCRIPTION® :

Height :	60.30 m	Type of Process :	Combustion
Diameter :	4.30 m	Type Of Fuel :	Natural Gas
Temperature :	191.00 °C	Oxygen Content :	4.75 %
Air Velocity :	15.86 m/s	Barometric Pressure :	759.25 mmHg
Flow rate ³ :	131.93 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	10.63 %		

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			4.75 % O ₂	7 % O ₂		
Total Suspended Particulate (TSP)	Isokinetic, Gravimetric (U.S. EPA Method 5)	10:25-11:09	2.8	2.4	320 ¹ , 32 ²	mg/m ³
			0.3694 ⁶	-	4.62 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ⁶ These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (ว-003-ก-0014)

Examined By. [Redacted]
 (Miss Apiradee Chuen-arom)
 (ว-003-ก-0007)
 29/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By [Redacted]
 (Mr. Thongchai Boonsak)
 (ว-003-ก-0012)
 29/04/2024

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Request No. LA67-0442

Report No. 6704-0184

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : ERU Stack (AOG)
 SAMPLING DATE : 22/04/2024 SAMPLE NO. : 01249
 RECEIVED DATE : 24/04/2024 SAMPLING TIME : 10:25-10:55
 TESTED DATE : 24-27/04/2024 REPORTED DATE : 29/04/2024
 STACK DESCRIPTION® :

Height :	60.30 m	Type of Process :	Combustion
Diameter :	4.30 m	Type Of Fuel :	Natural Gas
Temperature :	191.00 °C	Oxygen Content :	4.75 %
Air Velocity :	15.86 m/s	Barometric Pressure :	759.25 mmHg
Flow rate ³ :	131.93 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	10.63 %		

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			4.75 % O ₂	7 % O ₂		
Sulfur Dioxide (SO ₂)	Absorption, Barium-Thorin Titrimetric (U.S. EPA Method 6)	10:25-10:55	<3.4	<2.9	157 ¹	mg/m ³
			<1.3	<1.1	60 ¹ , 28 ²	ppm
			<0.4486 ⁶	-	10.57 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ⁶ These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (ว-003-ก-0014)

Examined By. [Redacted]
 (Miss Apiradee Chuen-arom)
 (ว-003-ก-0007)
 29/04/2024



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Approved By [Redacted]
 (Mr. Thongchai Boonsak)
 (ว-003-ก-0012)
 29/04/2024

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Request No. LA67-0442

Report No. 6704-0186

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 22/04/2024 SAMPLE NO. : 01251
RECEIVED DATE : 24/04/2024 SAMPLING TIME : 10:30-10:35
TESTED DATE : 24-27/04/2024 REPORTED DATE : 29/04/2024
STACK DESCRIPTION®

Height :	60.30 m	Type of Process :	Combustion
Diameter :	4.30 m	Type Of Fuel :	Natural Gas
Temperature :	191.00 °C	Oxygen Content :	4.75 %
Air Velocity :	15.86 m/s	Barometric Pressure :	759.25 mmHg
Flow rate ³ :	131.93 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	10.63 %		

PARAMETER	TEST METHOD	TIME	RESULT ¹		STD	UNIT
			4.75 % O ₂	7 % O ₂		
Oxides of Nitrogen (NO _x as NO ₂)	Absorption, Phenoldisulfonic Acid (U.S. EPA Method 7)	10:30-10:35	3.3	2.8	376 ¹	mg/m ³
			1.8	1.5	200 ¹ , 10 ²	ppm
			0.4354 ¹	-	2.71 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ⁴ These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (ว-003-ท-0014)

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ท-0007)

29/04/2024



Approved By

(Mr. Thongchai Boonsak)

(ว-003-ท-0012)

29/04/2024

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Request No. LA67-0442

Report No. 6704-0185

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 22/04/2024 SAMPLE NO. : 01250
RECEIVED DATE : 24/04/2024 SAMPLING TIME : 10:25-10:55
TESTED DATE : 24/04/2024-02/05/2027 REPORTED DATE : 02/05/2024
STACK DESCRIPTION

Height :	60.30 m	Type of Process :	Combustion
Diameter :	4.30 m	Type Of Fuel :	Natural Gas
Temperature :	191.00 °C	Oxygen Content :	4.75 %
Air Velocity :	15.86 m/s	Barometric Pressure :	759.25 mmHg
Flow rate ¹ :	131.93 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	10.63 %		

PARAMETER	TEST METHOD	TIME	RESULT ¹		UNIT
			4.75 % O ₂	7 % O ₂	
Hydrogen Cyanide ² (HCN)	Spectrophotometric	10:25-10:55	0.21	0.18	mg/m ³
			0.0277 ¹	-	g/s

- REMARK:**
- ¹ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ² Sampling by Eastern Thai Consulting 1992 Co.,Ltd. (Mr.Teerapong Naulin)
- Analysed By The Office of Public Health and Environmental Technology Services, Faculty of Public Health,
Mahidol University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Mr. Thongchai Boonsak)

02/05/2024

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Request No. LA67-0442

Report No. 6704-0190

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 22/04/2024 SAMPLE NO. : 01255
RECEIVED DATE : 24/04/2024 SAMPLING TIME : 10:25-10:55
TESTED DATE : 24/04/2024-02/05/2024 REPORTED DATE : 02/05/2024

STACK DESCRIPTION

Height : 60.30 m Type of Process : Combustion
Diameter : 4.30 m Type Of Fuel : Natural Gas
Temperature : 191.00 °C Oxygen Content : 4.75 %
Air Velocity : 15.86 m/s Barometric Pressure : 759.25 mmHg
Flow rate² : 120.71 m³/s Atmospheric Temperature : 34.00 °C
Moisture Content : 10.77 %

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			4.75 % O ₂	3 % O ₂		
Hydrogen Cyanide ³ (HCN)	Spectrophotometric	10:25-10:55	0.23	0.25	2.0	mg/m ³

REMARK:

- ¹ IFC, 2007. Environmental, Health and Safety Guidelines for Large Volume Petroleum-Based Organic Chemicals Manufacturing
- ² Standard Condition (Temperature 0°C, Pressure 760 mmHg) and Dry Basis
- ³ Sampling by Eastern Thai Consulting 1992 Co.,Ltd. (Mr.Teerapong Naulin)
Analysed By The Office of Public Health and Environmental Technology Services, Faculty of Public Health,
Mahidol University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

(Mr. Thongchai Boonsak)

02/05/2024

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Request No. LA67-0521

Report No. 6705-0207

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : SAR Stack
SAMPLING DATE : 17/05/2024 SAMPLE NO. : 01605
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 09:42-10:44
TESTED DATE : 20-24/05/2024 REPORTED DATE : 24/05/2024
STACK DESCRIPTION[®]

Height : 61.00 m Type of Process : Combustion
Diameter : 2.40 m Type Of Fuel : Natural Gas
Temperature : 43.00 °C Oxygen Content : 5.00 %
Air Velocity : 1.69 m/s Barometric Pressure : 755.50 mmHg
Flow rate² : 6.73 m³/s Atmospheric Temperature : 34.00 °C
Moisture Content : 6.08 %

PARAMETER	TEST METHOD	TIME	RESULT ²		STD	UNIT
			5.00 % O ₂	7 % O ₂		
Total Suspended Particulate (TSP)	Isokinetic, Gravimetric (U.S. EPA Method 5)	09:42-10:44	16.5	14.4	320 ¹ , 32 ²	mg/m ³
			0.1110 [®]	-	0.15 ²	g/s

REMARK:

- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Limit Values in Environmental Impact Assessment Report
- ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- [®] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Teerapong Naulin (๖-๐๐3-๓-0014)

Examined By.

(Miss Apiradee Chuen-arom)

(๖-๐๐3-๓-๐๐๐๗)

24/05/2024



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Approved By.

(Mr. Thongchai Boonsak)

(๖-๐๐3-๓-๐๐1๒)

24/05/2024

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Request No. LA67-0521

Report No. 6705-0208

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : SAR Stack
SAMPLING DATE : 17/05/2024 SAMPLE NO. : 01606
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 09:50-10:20
TESTED DATE : 20-24/05/2024 REPORTED DATE : 24/05/2024
STACK DESCRIPTION®

Height :	61.00 m	Type of Process :	Combustion
Diameter :	2.40 m	Type Of Fuel :	Natural Gas
Temperature :	43.00 °C	Oxygen Content :	5.00 %
Air Velocity :	1.69 m/s	Barometric Pressure :	755.50 mmHg
Flow rate ³ :	6.73 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.08 %		

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			5.00 % O ₂	7 % O ₂		
Sulfur Dioxide	Absorption, Barium-Thorin	09:50-10:20	5.8	5.1	157 ¹	mg/m ³
(SO ₂)	Titrimetric (U.S. EPA Method 6)		2.2	1.9	60 ¹ , 28 ²	ppm
			0.0390 [®]	-	0.34 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - [®] These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (๓-003-๓-0014)

Examined By...

(Miss Apiradee Chuen-arom)

(๓-003-๓-0007)

24/05/2024



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Approved By...

(Mr. Thongchai Boonsak)

(๓-003-๓-0012)

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Request No. LA67-0521

Report No. 6705-0209

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : SAR Stack
SAMPLING DATE : 17/05/2024 SAMPLE NO. : 01607
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 10:00-10:05
TESTED DATE : 20-24/05/2024 REPORTED DATE : 24/05/2024
STACK DESCRIPTION®

Height :	61.00 m	Type of Process :	Combustion
Diameter :	2.40 m	Type Of Fuel :	Natural Gas
Temperature :	43.00 °C	Oxygen Content :	5.00 %
Air Velocity :	1.69 m/s	Barometric Pressure :	755.50 mmHg
Flow rate ³ :	6.73 m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.08 %		

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			5.00 % O ₂	7 % O ₂		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:00-10:05	20.4	17.8	376 ¹	mg/m ³
(NO _x as NO ₂)	Acid (U.S. EPA Method 7)		10.8	9.4	200 ¹ , 50 ²	ppm
			0.1373 [®]	-	0.44 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - [®] These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (๓-003-๓-0014)

Examined By...

(Miss Apiradee Chuen-arom)

(๓-003-๓-0007)

24/05/2024



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Approved By...

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(๓-003-๓-0012)

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Request No. LA67-0463

Report No. 6705-0064

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : WWI Stack
 SAMPLING DATE : 24/04/2024 SAMPLE NO. : 01411
 RECEIVED DATE : 29/04/2024 SAMPLING TIME : 09:55-10:53
 TESTED DATE : 29/04/2024-06/05/2024 REPORTED DATE : 07/05/2024
 STACK DESCRIPTION®

Height : 60.00 m Type of Process : Combustion
 Diameter : 1.89 m Type Of Fuel : Natural Gas
 Temperature : 51.00 °C Oxygen Content : 13.65 %
 Air Velocity : 2.96 m/s Barometric Pressure : 759.25 mmHg
 Flow rate³ : 7.21 m³/s Atmospheric Temperature : 33.00 °C
 Moisture Content : 5.64 %

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			13.65 % O ₂	7 % O ₂		
Total Suspended Particulate (TSP)	Isokinetic, Gravimetric (U.S. EPA Method 5)	09:55-10:53	4.4	8.4	320 ¹ , 32 ²	mg/m ³
			0.0317 ³	-	0.58 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ⁴ These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (1-003-ก-0014)

Examined By.

(Miss Apiradee Chuen-arom)
 (1-003-ก-0007)
 07/05/2024



Approved By.

(Mr. Thongchai Boonsak)
 (1-003-ก-0012)
 07/05/2024

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Request No. LA67-0463

Report No. 6705-0065

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkroh Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : WWI Stack
 SAMPLING DATE : 24/04/2024 SAMPLE NO. : 01412
 RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:00-10:30
 TESTED DATE : 29/04/2024-06/05/2024 REPORTED DATE : 07/05/2024
 STACK DESCRIPTION®

Height : 60.00 m Type of Process : Combustion
 Diameter : 1.89 m Type Of Fuel : Natural Gas
 Temperature : 51.00 °C Oxygen Content : 13.65 %
 Air Velocity : 2.96 m/s Barometric Pressure : 759.25 mmHg
 Flow rate³ : 7.21 m³/s Atmospheric Temperature : 33.00 °C
 Moisture Content : 5.64 %

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			13.65 % O ₂	7 % O ₂		
Sulfur Dioxide (SO ₂)	Absorption, Barium-Thorin Titrimetric (U.S. EPA Method 6)	10:00-10:30	<3.4	<6.5	157 ¹	mg/m ³
			<1.3	<2.5	60 ¹ , 28 ²	ppm
			<0.0245 ³	-	1.32 ²	g/s

- REMARK:**
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
 - ² Limit Values in Environmental Impact Assessment Report
 - ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
 - ⁴ These Data Outside The Scope of The Registration of The Department of Industrial Works.
 - Sampling By Mr.Teerapong Naulin (1-003-ก-0014)

Examined By.

(Miss Apiradee Chuen-arom)
 (1-003-ก-0007)
 07/05/2024



Approved By..

(Mr. Thongchai Boonsak)
 (1-003-ก-0012)
 07/05/2024

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Request No. LA67-0463

Report No. 6705-0066

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : WWI Stack
SAMPLING DATE : 24/04/2024
RECEIVED DATE : 29/04/2024
TESTED DATE : 29/04/2024-06/05/2024
STACK DESCRIPTION®

SAMPLE NO. : 01413
SAMPLING TIME : 09:55-10:00
REPORTED DATE : 07/05/2024
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 13.65 %
Barometric Pressure : 759.25 mmHg
Atmospheric Temperature : 33.00 °C

Height : 60.00 m
Diameter : 1.89 m
Temperature : 51.00 °C
Air Velocity : 2.96 m/s
Flow rate³ : 7.21 m³/s
Moisture Content : 5.64 %

PARAMETER	TEST METHOD	TIME	RESULT ³		STD	UNIT
			13.65 % O ₂	7 % O ₂		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	09:55-10:00	3.2	6.1	376 ¹	mg/m ³
(NO _x as NO ₂)	Acid (U.S. EPA Method 7)		1.7	3.3	200 ¹ , 50 ²	ppm
			0.0231 ³	-	1.69 ²	g/s

REMARK:

- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Limit Values in Environmental Impact Assessment Report
- ³ Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ⁴ These Data Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr.Teerapong Naulin (ว-003-ก-0014)

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ก-0007)

07/05/2024



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Approved By

(Mr. Thongchai Boonsak)

(ว-003-ก-0012)

07/05/2024

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