

Request No. LA65-0316

Report No. 6504-0044

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : Outlet Dust Collector of Melting Casting Stack

SAMPLE NO. : 01246

SAMPLING DATE : 14/03/2022

SAMPLING TIME : 10:30-11:05

RECEIVED DATE : 18/03/2022

REPORTED DATE : 02/04/2022

TESTED DATE : 18-21/03/2022

## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	
Temperature :	42.00	°C	Oxygen Content :	20.90 %
Air Velocity :	16.06	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>2</sup> :	9.85	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.04	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:30-11:05	1.2	400	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS (25°C, 760 mm.Hg)

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

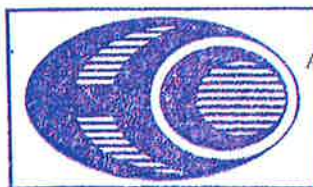
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

02/04/2022

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Request No. LA65-0315

Report No. 6504-0045

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : Outlet Dust Collector of Melting Casting Stack

SAMPLE NO. : 01247

SAMPLING DATE : 14/03/2022

SAMPLING TIME : 10:30-11:05

RECEIVED DATE : 18/03/2022

REPORTED DATE : 02/04/2022

TESTED DATE : 18-30/03/2022

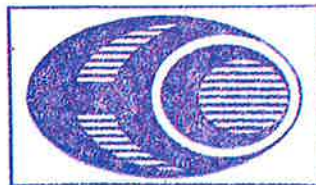
## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	42.00	°C	Oxygen Content :	20.90 %
Air Velocity :	16.06	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>1</sup> :	9.85	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.04	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1</sup>	UNIT
Zinc as Zinc Oxide	Isokinetic, ICP-AES	10:30-11:05	0.13	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> DRY BASIS (25°C, 760 mm.Hg)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION  
OF THE DEPARTMENT OF INDUSTRIAL WORKS  
(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak  
(MR. THONGCHAI BOONSAK)

02/04/2022

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Request No. LA65-0316

Report No. 6504-0049

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : Hot Mill Stack (New Slab Heater)

SAMPLE NO. : 01253-01255

SAMPLING DATE : 15/03/2022

SAMPLING TIME : 09:30-10:25

RECEIVED DATE : 18/03/2022

REPORTED DATE : 02/04/2022

TESTED DATE : 18-26/03/2022

## STACK DESCRIPTION

Height : 30.00 m

Diameter : 2.00 m

Temperature : 224.00 °C

Air Velocity : 3.74 m/s

Flow rate<sup>2</sup> : 6.55 m<sup>3</sup>/s

Moisture Content : 6.59 %

Type of Process : Combustion

Type of Fuel : Natural Gas

Operation Capacity : 6 piece /hr.

Oxygen Content : 4.48 %

Barometric Pressure : 757.75 mm.Hg

Atmospheric Temperature : 33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			4.48 % O <sub>2</sub>	7 % O <sub>2</sub>		
Particulate (TSP)	Isokinetic, Gravimetric	09:30-10:25	10.9	9.2	320	mg/m <sup>3</sup>
Sulfur Dioxide (SO <sub>2</sub> )	Absorption Barium Thorin Titrimetric	09:30-10:00	<3.4	<3.4 <sup>3</sup>	157	mg/m <sup>3</sup>
			<1.3	<1.3 <sup>3</sup>	60	ppm
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption,	09:40-09:45	38.1	32.3	376	mg/m <sup>3</sup>
	Colorimetric		20.2	17.1	200	ppm

## REMARK:

<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS (25°C, 760 mm.Hg)<sup>3</sup> RESULTS OF ACTUAL %O<sub>2</sub>

\* SAMPLING BY MR. TEERAPONG NAULIN (๖-003-๓-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(๖-003-๓-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(๖-003-๓-5618)

02/04/2022

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Request No. LA65-0318

Report No. 6504-0001

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : ปล่องกระบวนการล้าง (PK-01) SAMPLE NO. : 01281-01283  
SAMPLING DATE : 15/03/2022 SAMPLING TIME : 11:00-11:40  
RECEIVED DATE : 18/03/2022 REPORTED DATE : 02/04/2022  
TESTED DATE : 18-24/03/2022

## STACK DESCRIPTION

Height :	12.00	m	Type of Process :	Wet Scrubber
Diameter :	0.80	m	Type of Fuel :	-
Temperature :	30.00	°C	Oxygen Content :	20.90 %
Air Velocity :	9.08	m/s	Barometric Pressure :	755.50 mm.Hg
Flow rate <sup>2</sup> :	4.34	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	2.88	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Isokinetic, Titrimetric	11:00-11:40	<0.05	100	mg/m <sup>3</sup>
			<0.01	25	ppm
Sulfur Dioxide (SO <sub>2</sub> )	Absorption Barium Thorin Titrimetric	11:00-11:30	<3.4	1,310	mg/m <sup>3</sup>
			<1.3	500	ppm
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption, Colorimetric	11:20-11:25	<2.0	-	mg/m <sup>3</sup>
			<1.0	-	ppm

## REMARK:

<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS ( 25°C, 760 mm.Hg)

\* SAMPLING BY MR. WARAKORN VITAYASEWEE (ว-003-ก-7283)

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

02/04/2022

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Request No. LA65-0316

Report No. 6504-0047

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : ปล่องกระบวนกรล้าง (AP-02)

SAMPLE NO. : 01249-01251

SAMPLING DATE : 14/03/2022

SAMPLING TIME : 11:15-12:00

RECEIVED DATE : 18/03/2022

REPORTED DATE : 02/04/2022

TESTED DATE : 18-24/03/2022

## STACK DESCRIPTION

Height : 10.00 m

Diameter : 0.46 m

Temperature : 30.00 °C

Air Velocity : 7.04 m/s

Flow rate<sup>1/2</sup> : 1.11 m<sup>3</sup>/s

Moisture Content : 3.38 %

Type of Process : Exhaust

Type of Fuel : -

Oxygen Content : 20.90 %

Barometric Pressure : 757.75 mm.Hg

Atmospheric Temperature : 36.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1/2</sup>	STD <sup>1/</sup>	UNIT
Sulfur Dioxide (SO <sub>2</sub> )	Absorption Barium Thorin Titrimetric	11:30-12:00	<3.4 <1.3	1,310 500	mg/m <sup>3</sup> ppm
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Isokinetic, Titrimetric	11:15-11:50	<0.05 <0.01	100 25	mg/m <sup>3</sup> ppm
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption, Colorimetric	11:40-11:45	<2.0 <1.0	- -	mg/m <sup>3</sup> ppm

## REMARK:

<sup>1/</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>1/2</sup> DRY BASIS ( 25°C, 760 mm.Hg)

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

02/04/2022

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Request No. LA645-0318

Report No. 6504-0003

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : ปล่องกระบวนการล้าง (PK-03)

SAMPLE NO. : 01286, 01288-01289

SAMPLING DATE : 15/03/2022

SAMPLING TIME : 09:00-09:40

RECEIVED DATE : 18/03/2022

REPORTED DATE : 02/04/2022

TESTED DATE : 18-24/03/2022

## STACK DESCRIPTION

Height : 10.00 m

Diameter : 0.70 m

Temperature : 32.00 °C

Air Velocity : 13.31 m/s

Flow rate<sup>1</sup> : 4.83 m<sup>3</sup>/s

Moisture Content : 2.92 %

Type of Process : Wet Scrubber

Type of Fuel : -

Oxygen Content : 20.90 %

Barometric Pressure : 755.50 mm.Hg

Atmospheric Temperature : 33.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Sulfur Dioxide (SO <sub>2</sub> )	Barium Thorin Titrimetric	09:00-09:30	<3.4	1,310	mg/m <sup>3</sup>
			<1.3	500	ppm
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Isokinetic, Titrimetric	09:00-09:40	<0.05	100	mg/m <sup>3</sup>
			<0.01	25	ppm
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption, Colorimetric	09:10-09:15	<2.0	-	mg/m <sup>3</sup>
			<1.0	-	ppm

## REMARK:

<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS ( 25°C, 760 mm.Hg)

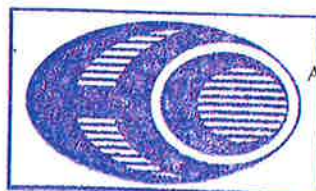
\* SAMPLING BY MR. WARAKORN VITAYASEWEE (ว-003-ท-7283)

Examined By

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(ว-003-ท-5618)

02/04/2022

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Request No. LA65-0318

Report No. 6504-0004

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : ปล่องกระบวนการล้าง (PK-03)  
SAMPLING DATE : 15/03/2022  
RECEIVED DATE : 18/03/2022  
TESTED DATE : 18/03/2022-12/04/2022  
SAMPLE NO. : 01287  
SAMPLING TIME : 09:00-09:30  
REPORTED DATE : 19/04/2022

STACK DESCRIPTION

Height :	10.00	m	Type of Process :	Wet Scrubber	
Diameter :	0.70	m	Type of Fuel :		
Temperature :	32.00	°C	Oxygen Content :	20.90	%
Air Velocity :	13.31	m/s	Barometric Pressure :	755.50	mm.Hg
Flow rate <sup>1</sup> :	4.83	m <sup>3</sup> /s	Atmospheric Temperature :	33.00	°C
Moisture Content :	2.92	%			

PARAMETER	TEST METHOD	TIME	RESULT <sup>1</sup>	UNIT
Nitric acid <sup>2</sup> (HNO <sub>3</sub> )	Ion Chromatography	09:00-09:30	0.034	mg/m <sup>3</sup>
			0.013	ppm

**REMARK:**<sup>1</sup> DRY BASIS ( 25°C, 760 mm.Hg)<sup>2</sup> SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.

(SAMPLING BY MR. WARAKORN VITAYASEWEE)

ANALYSED BY THE ENVIRONMENTAL CENTER RAJABHAT SUAN DUSIT UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(MR. THONGCHAI BOONSAK)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA65-0408

Report No. 6504-0387

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.

ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230

SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.

SAMPLE POINT : ปล่องกระบวนการล้าง (PK-04)

SAMPLING DATE : 07/04/2022

RECEIVED DATE : 09/04/2022

TESTED DATE : 09-18/04/2022

SAMPLE NO. : 01643-01645

SAMPLING TIME : 09:00-09:40

REPORTED DATE : 22/04/2022

## STACK DESCRIPTION

Height : 10.00 m

Diameter : 0.67 m

Temperature : 25.00 °C

Air Velocity : 4.88 m/s

Flow rate<sup>2</sup> : 1.67 m<sup>3</sup>/s

Moisture Content : 2.75 %

Type of Process : Wet Scrubber

Type of Fuel : -

Oxygen Content : 20.90 %

Barometric Pressure : 756.25 mm.Hg

Atmospheric Temperature : 30.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Sulfur Dioxide (SO <sub>2</sub> )	Absorption Barium Thorin Titrimetric	09:00-09:30	<3.4 <1.3	1,310 500	mg/m <sup>3</sup> ppm
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Isokinetic, Titrimetric	09:00-09:40	0.07 0.02	100 25	mg/m <sup>3</sup> ppm
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption, Colorimetric	09:10-09:15	<2.0 <1.0	- -	mg/m <sup>3</sup> ppm

## REMARK:

<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS ( 25°C, 760 mm.Hg)

\* SAMPLING BY MR. AUDOUMSUB JENJOBING (จ-003-จ-8894)

Examined By

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

22/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

Thongchai Boonsak

(MR. THONGCHAI BOONSACK)

(จ-003-ค-5618)

22/04/2022

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Request No. ATR6501047

Report No. 6501-0574 - 6501-0576

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010574 - A65010576  
 TESTED DATE : 28/01/2022-29/01/2022 REPORTED DATE : 07/02/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	19-20/01/2022	0.114	0.33	mg/m <sup>3</sup>
		20-21/01/2022	0.091	0.33	mg/m <sup>3</sup>
		21-22/01/2022	0.088	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsochon)

07/02/2022

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Request No. ATR6501047

Report No. 6501-0577 - 6501-0579

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010577 - A65010579  
 TESTED DATE : 28/01/2022-04/02/2022 REPORTED DATE : 07/02/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	19-20/01/2022	< 0.01	mg/m <sup>3</sup>
		20-21/01/2022	< 0.01	mg/m <sup>3</sup>
		21-22/01/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

07/02/2022

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Request No. ATR6503035

Report No. 6503-0547 - 6503-0549

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030547 - A65030549  
 TESTED DATE : 21/03/2022-24/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	14-15/03/2022	0.207	0.33	mg/m <sup>3</sup>
		15-16/03/2022	0.157	0.33	mg/m <sup>3</sup>
		16-17/03/2022	0.144	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

02/04/2022

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Request No. ATR6503035

Report No. 6503-0550 - 6503-0552

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030550 - A65030552  
 TESTED DATE : 21/03/2022-30/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	14-15/03/2022	< 0.01	mg/m <sup>3</sup>
		15-16/03/2022	< 0.01	mg/m <sup>3</sup>
		16-17/03/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* 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)

02/04/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6505073

Report No. 6505-1185 - 6505-1187

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051185 - A65051187  
 TESTED DATE : 30/05/2022-02/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	16-17/05/2022	0.114	0.33	mg/m <sup>3</sup>
		17-18/05/2022	0.123	0.33	mg/m <sup>3</sup>
		18-19/05/2022	0.219	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mrs. Wanpen Lhaochindawat)

09/06/2022

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Request No. ATR6505073

Report No. 6505-1188 - 6505-1190

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051188 - A65051190  
 TESTED DATE : 30/05/2022-06/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	16-17/05/2022	< 0.01	mg/m <sup>3</sup>
		17-18/05/2022	< 0.01	mg/m <sup>3</sup>
		18-19/05/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

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



Approved By

(Mrs. Wanpen Lhaochindawat)

09/06/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. ATR6501047

Report No. 6501-0568 - 6501-0570

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010568 - A65010570  
 TESTED DATE : 28/01/2022-29/01/2022 REPORTED DATE : 07/02/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	19-20/01/2022	0.121	0.33	mg/m <sup>3</sup>
		20-21/01/2022	0.066	0.33	mg/m <sup>3</sup>
		21-22/01/2022	0.059	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Approved By

  
 (Miss Thanatporn Klinsopon)

07/02/2022

COPY

Request No. ATR6501047

Report No. 6501-0571 - 6501-0573

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010571 - A65010573  
 TESTED DATE : 28/01/2022-04/02/2022 REPORTED DATE : 07/02/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	19-20/01/2022	< 0.01	mg/m <sup>3</sup>
		20-21/01/2022	< 0.01	mg/m <sup>3</sup>
		21-22/01/2022	< 0.01	mg/m <sup>3</sup>

**REMARK:**

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Miss Thanatporn Klinsopon)

07/02/2022

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Request No. ATR6503035

Report No. 6503-0541 - 6503-0543

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030541 - A65030543  
 TESTED DATE : 21/03/2022-24/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	14-15/03/2022	0.083	0.33	mg/m <sup>3</sup>
		15-16/03/2022	0.069	0.33	mg/m <sup>3</sup>
		16-17/03/2022	0.072	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

02/04/2022

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Request No. ATR6503035

Report No. 6503-0544 - 6503-0546

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030544 - A65030546  
 TESTED DATE : 21/03/2022-30/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	14-15/03/2022	< 0.01	mg/m <sup>3</sup>
		15-16/03/2022	< 0.01	mg/m <sup>3</sup>
		16-17/03/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works,  
 (Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinson)

02/04/2022

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Request No. ATR6505073

Report No. 6505-1179 - 6505-1181

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051179 - A65051181  
 TESTED DATE : 30/05/2022-02/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	16-17/05/2022	0.040	0.33	mg/m <sup>3</sup>
		17-18/05/2022	0.040	0.33	mg/m <sup>3</sup>
		18-19/05/2022	0.026	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mrs. Wanpen Lhaochindawat)

09/06/2022

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Request No. ATR6505073

Report No. 6505-1182 - 6505-1184

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051182 - A65051184  
 TESTED DATE : 30/05/2022-06/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	16-17/05/2022	< 0.01	mg/m <sup>3</sup>
		17-18/05/2022	< 0.01	mg/m <sup>3</sup>
		18-19/05/2022	< 0.01	mg/m <sup>3</sup>


## REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mrs. Wanpen Lhaochindawat)

09/06/2022

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Request No. ATR6501047

Report No. 6501-0580 - 6501-0582

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungasukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010580 - A65010582  
 TESTED DATE : 28/01/2022-29/01/2022 REPORTED DATE : 07/02/2022

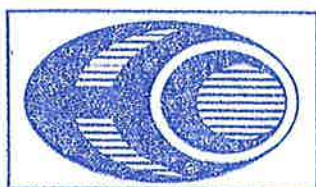
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	19-20/01/2022	0.117	0.33	mg/m <sup>3</sup>
		20-21/01/2022	0.061	0.33	mg/m <sup>3</sup>
		21-22/01/2022	0.051	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

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Approved By



(Miss Thanatporn Klinsoon)

07/02/2022

COPY



Request No. ATR6501047

Report No. 6501-0583 - 6501-0585

## TEST REPORT

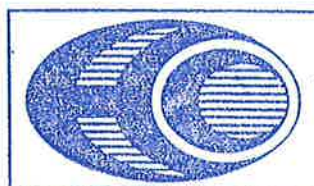
CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังท่าประมาณ 0.5 กม.  
 RECEIVED DATE : 28/01/2022 SAMPLE NO. : A65010583 - A65010585  
 TESTED DATE : 28/01/2022-04/02/2022 REPORTED DATE : 07/02/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	19-20/01/2022	< 0.01	mg/m <sup>3</sup>
		20-21/01/2022	< 0.01	mg/m <sup>3</sup>
		21-22/01/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* 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)

07/02/2022

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Request No. ATR6503035

Report No. 6503-0553 - 6503-0555

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030553 - A65030555  
 TESTED DATE : 21/03/2022-24/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	14-15/03/2022	0.068	0.33	mg/m <sup>3</sup>
		15-16/03/2022	0.045	0.33	mg/m <sup>3</sup>
		16-17/03/2022	0.027	0.33	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

02/04/2022

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Request No. ATR6503035

Report No. 6503-0556 - 6503-0558

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
 RECEIVED DATE : 21/03/2022 SAMPLE NO. : A65030556 - A65030558  
 TESTED DATE : 21/03/2022-30/03/2022 REPORTED DATE : 02/04/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	14-15/03/2022	< 0.01	mg/m <sup>3</sup>
		15-16/03/2022	< 0.01	mg/m <sup>3</sup>
		16-17/03/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

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



Approved By



(Miss Thanatporn Klinsopon)

02/04/2022

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Request No. ATR6505073

Report No. 6505-1191 - 6505-1193

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังท่าประมาณ 0.5 กม.  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051191 - A65051193  
 TESTED DATE : 30/05/2022-02/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	16-17/05/2022	0.052	0.33	mg/m <sup>3</sup>
		17-18/05/2022	0.065	0.33	mg/m <sup>3</sup>
		18-19/05/2022	0.063	0.33	mg/m <sup>3</sup>

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mrs. Wanpen Lhaochindawat)

09/06/2022

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Request No. ATR6505073

Report No. 6505-1194 - 6505-1196

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังท่าประมาณ 0.5 กม.  
 RECEIVED DATE : 30/05/2022 SAMPLE NO. : A65051194 - A65051196  
 TESTED DATE : 30/05/2022-06/06/2022 REPORTED DATE : 09/06/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	16-17/05/2022	< 0.01	mg/m <sup>3</sup>
		17-18/05/2022	< 0.01	mg/m <sup>3</sup>
		18-19/05/2022	< 0.01	mg/m <sup>3</sup>

## REMARK:

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



Approved By



(Mr. Thongchai Boonsak)

09/06/2022

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 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
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Request No. LA65-R0155

Report No. R6501-1282 – R6501-1284

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณที่ทำการข่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 01372-01374  
DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 19-22/01/2022  
INSTRUMENT : API Model T200 S/N 4084 RECEIVED DATE : 22/01/2022  
REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.015	0.001	0.001	ppm
10:00 – 11:00	0.013	0.001	0.001	ppm
11:00 – 12:00	0.010	0.002	0.001	ppm
12:00 – 13:00	0.010	0.002	0.002	ppm
13:00 – 14:00	0.016	0.003	0.002	ppm
14:00 – 15:00	0.015	0.005	0.002	ppm
15:00 – 16:00	0.011	0.006	0.003	ppm
16:00 – 17:00	0.016	0.005	0.003	ppm
17:00 – 18:00	0.006	0.005	0.003	ppm
18:00 – 19:00	0.004	0.007	0.003	ppm
19:00 – 20:00	0.003	0.004	0.003	ppm
20:00 – 21:00	0.003	0.006	0.003	ppm
21:00 – 22:00	0.003	0.008	0.004	ppm
22:00 – 23:00	0.003	0.005	0.004	ppm
23:00 – 00:00	0.003	0.003	0.004	ppm
00:00 – 01:00	0.002	0.003	0.004	ppm
01:00 – 02:00	0.004	0.002	0.007	ppm
02:00 – 03:00	0.005	0.002	0.007	ppm
03:00 – 04:00	0.007	0.002	0.007	ppm
04:00 – 05:00	0.007	0.002	0.007	ppm
05:00 – 06:00	0.006	0.004	0.004	ppm
06:00 – 07:00	0.006	0.002	0.003	ppm
07:00 – 08:00	0.005	0.002	0.008	ppm
08:00 – 09:00	0.002	0.001	0.007	ppm
Maximum 1 hr.	0.016	0.008	0.008	ppm
Average 24 hr.	0.007	0.003	0.004	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarat Phrasakulnong)

Approved By.....

(MS. THANATPORN KLINSOPON)

28/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA65-R0352

Report No. R6503-0928 – R6503-0930

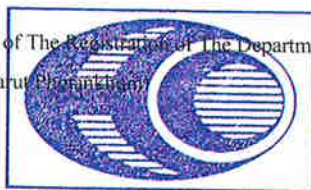
## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 PARAMETER\* : Nitrogen Dioxide  
 DETERMINATION METHOD : Chemiluminescence  
 INSTRUMENT : API Model T200 S/N ENOAIT20002467

SAMPLE NO. : 03408-03410  
 SAMPLING DATE : 14-17/03/2022  
 RECEIVED DATE : 17/03/2022  
 REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.010	0.005	0.005	ppm
10:00 – 11:00	0.011	0.005	0.011	ppm
11:00 – 12:00	0.012	0.005	0.014	ppm
12:00 – 13:00	0.022	0.006	0.022	ppm
13:00 – 14:00	0.016	0.003	0.022	ppm
14:00 – 15:00	0.014	0.003	0.011	ppm
15:00 – 16:00	0.030	0.003	0.010	ppm
16:00 – 17:00	0.008	0.004	0.024	ppm
17:00 – 18:00	0.015	0.019	0.030	ppm
18:00 – 19:00	0.014	0.045	0.016	ppm
19:00 – 20:00	0.014	0.033	0.013	ppm
20:00 – 21:00	0.015	0.015	0.013	ppm
21:00 – 22:00	0.010	0.030	0.012	ppm
22:00 – 23:00	0.008	0.021	0.008	ppm
23:00 – 00:00	0.008	0.012	0.009	ppm
00:00 – 01:00	0.008	0.007	0.008	ppm
01:00 – 02:00	0.007	0.007	0.008	ppm
02:00 – 03:00	0.006	0.004	0.007	ppm
03:00 – 04:00	0.006	0.008	0.007	ppm
04:00 – 05:00	0.006	0.008	0.009	ppm
05:00 – 06:00	0.007	0.009	0.009	ppm
06:00 – 07:00	0.006	0.013	0.011	ppm
07:00 – 08:00	0.007	0.012	0.012	ppm
08:00 – 09:00	0.007	0.008	0.010	ppm
Maximum 1 hr.	0.030	0.045	0.030	ppm
Average 24 hr.	0.011	0.012	0.012	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phomkhan)

Approved By

(MS. THANATPORN KLINSOPON)

21/03/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA65-R05135

Report No. R6505-3246 – R6505-3248

## TEST REPORT

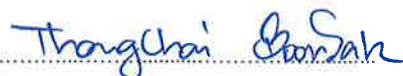
CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณที่ทำการขอยุทธศาสตร์การส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 10156-10158  
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 16-19/05/2022  
 INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM RECEIVED DATE : 19/05/2022  
 REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.007	0.024	0.020	ppm
10:00 – 11:00	0.006	0.018	0.019	ppm
11:00 – 12:00	0.011	0.013	0.022	ppm
12:00 – 13:00	0.011	0.018	0.020	ppm
13:00 – 14:00	0.011	0.018	0.017	ppm
14:00 – 15:00	0.015	0.019	0.020	ppm
15:00 – 16:00	0.015	0.012	0.024	ppm
16:00 – 17:00	0.016	0.013	0.025	ppm
17:00 – 18:00	0.019	0.023	0.024	ppm
18:00 – 19:00	0.021	0.033	0.028	ppm
19:00 – 20:00	0.022	0.031	0.030	ppm
20:00 – 21:00	0.023	0.033	0.030	ppm
21:00 – 22:00	0.024	0.029	0.032	ppm
22:00 – 23:00	0.023	0.027	0.031	ppm
23:00 – 00:00	0.019	0.026	0.025	ppm
00:00 – 01:00	0.017	0.023	0.018	ppm
01:00 – 02:00	0.016	0.023	0.014	ppm
02:00 – 03:00	0.013	0.022	0.013	ppm
03:00 – 04:00	0.010	0.019	0.014	ppm
04:00 – 05:00	0.010	0.019	0.014	ppm
05:00 – 06:00	0.012	0.018	0.014	ppm
06:00 – 07:00	0.014	0.018	0.015	ppm
07:00 – 08:00	0.017	0.019	0.018	ppm
08:00 – 09:00	0.023	0.021	0.021	ppm
Maximum 1 hr.	0.024	0.033	0.032	ppm
Average 24 hr.	0.016	0.022	0.021	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummanit Phorapichum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

19/05/2022

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Request No. LA65-R0155

Report No. R6501-I288 – R6501-I290

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 6758

SAMPLE NO. : 01378-01380  
SAMPLING DATE : 19-22/01/2022  
RECEIVED DATE : 22/01/2022  
REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.002	0.002	0.019	ppm
10:00 – 11:00	0.002	0.023	0.019	ppm
11:00 – 12:00	0.014	0.015	0.021	ppm
12:00 – 13:00	0.010	0.011	0.018	ppm
13:00 – 14:00	0.007	0.023	0.019	ppm
14:00 – 15:00	0.006	0.017	0.016	ppm
15:00 – 16:00	0.013	0.013	0.017	ppm
16:00 – 17:00	0.018	0.013	0.019	ppm
17:00 – 18:00	0.023	0.014	0.022	ppm
18:00 – 19:00	0.028	0.022	0.023	ppm
19:00 – 20:00	0.030	0.025	0.025	ppm
20:00 – 21:00	0.002	0.025	0.001	ppm
21:00 – 22:00	0.002	0.031	<0.001	ppm
22:00 – 23:00	0.024	0.023	0.026	ppm
23:00 – 00:00	0.016	0.018	0.023	ppm
00:00 – 01:00	0.016	0.021	0.024	ppm
01:00 – 02:00	0.013	0.015	0.022	ppm
02:00 – 03:00	0.019	0.016	0.018	ppm
03:00 – 04:00	0.024	0.007	0.015	ppm
04:00 – 05:00	0.003	0.006	0.012	ppm
05:00 – 06:00	0.003	0.004	0.012	ppm
06:00 – 07:00	0.003	0.006	0.012	ppm
07:00 – 08:00	0.001	0.013	0.014	ppm
08:00 – 09:00	0.002	0.021	0.020	ppm
Maximum 1 hr.	0.030	0.031	0.026	ppm
Average 24 hr.	0.012	0.016	0.017	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

28/01/2022

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Request No. LA65-R0352

Report No. R6503-0934 – R6503-0936

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
 PARAMETER\* : Nitrogen Dioxide  
 DETERMINATION METHOD : Chemiluminescence  
 INSTRUMENT : API Model T200 S/N ENOA1T20002469

SAMPLE NO. : 03414-03416  
 SAMPLING DATE : 14-17/03/2022  
 RECEIVED DATE : 17/03/2022  
 REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.001	0.001	0.001	ppm
10:00 – 11:00	0.001	0.001	0.001	ppm
11:00 – 12:00	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
Maximum 1 hr.	0.001	0.001	0.001	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

21/03/2022

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Request No. LA65-R05135

Report No. R6505-3252 – R6505-3254

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A, Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 6756

SAMPLE NO. : 10162-10164  
SAMPLING DATE : 16-19/05/2022  
RECEIVED DATE : 19/05/2022  
REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
09:00 – 10:00 <sup>2</sup>	0.001	0.022	0.004	ppm
10:00 – 11:00	<0.001	0.045	0.003	ppm
11:00 – 12:00	<0.001	0.047	0.003	ppm
12:00 – 13:00	<0.001	0.034	0.004	ppm
13:00 – 14:00	0.001	0.028	0.006	ppm
14:00 – 15:00	<0.001	0.023	0.010	ppm
15:00 – 16:00	<0.001	0.020	0.027	ppm
16:00 – 17:00	<0.001	0.018	0.046	ppm
17:00 – 18:00	<0.001	0.021	0.038	ppm
18:00 – 19:00	<0.001	0.029	0.040	ppm
19:00 – 20:00	0.001	0.019	0.029	ppm
20:00 – 21:00	0.001	0.023	0.022	ppm
21:00 – 22:00	0.002	0.015	0.018	ppm
22:00 – 23:00	0.002	0.016	0.021	ppm
23:00 – 00:00	0.003	0.014	0.016	ppm
00:00 – 01:00	0.004	0.010	0.014	ppm
01:00 – 02:00	0.004	0.009	0.012	ppm
02:00 – 03:00	0.005	0.008	0.013	ppm
03:00 – 04:00	0.005	0.008	0.012	ppm
04:00 – 05:00	0.012	0.007	0.011	ppm
05:00 – 06:00	0.025	0.006	0.010	ppm
06:00 – 07:00	0.032	0.007	0.012	ppm
07:00 – 08:00	0.027	0.006	0.012	ppm
08:00 – 09:00	0.020	0.005	0.014	ppm
Maximum 1 hr.	0.032	0.047	0.046	ppm
Average 24 hr.	0.006	0.018	0.017	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By *Thongchai Boonsak*  
(MR. THONGCHAI BOONSAK)

19/05/2022

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Request No. LA65-R0155

Report No. R6501-1294 – R6501-1296

TEST REPORT

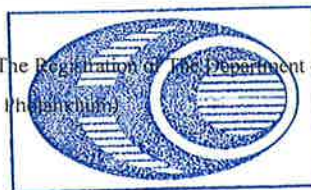
CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 01384-01386  
DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 19-22/01/2022  
INSTRUMENT : API Model T200 S/N 6756 RECEIVED DATE : 22/01/2022  
REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
10:00 – 11:00 <sup>3</sup>	0.013	0.012	0.012	ppm
11:00 – 12:00	0.012	0.007	0.011	ppm
12:00 – 13:00	0.013	0.014	0.018	ppm
13:00 – 14:00	0.012	0.034	0.027	ppm
14:00 – 15:00	0.019	0.031	0.031	ppm
15:00 – 16:00	0.026	0.031	0.031	ppm
16:00 – 17:00	0.027	0.026	0.031	ppm
17:00 – 18:00	0.036	0.015	0.024	ppm
18:00 – 19:00	0.022	0.015	0.016	ppm
19:00 – 20:00	0.024	0.019	0.019	ppm
20:00 – 21:00	0.040	0.019	0.024	ppm
21:00 – 22:00	0.036	0.017	0.032	ppm
22:00 – 23:00	0.014	0.016	0.027	ppm
23:00 – 00:00	0.010	0.013	0.022	ppm
00:00 – 01:00	0.011	0.013	0.019	ppm
01:00 – 02:00	0.012	0.015	0.019	ppm
02:00 – 03:00	0.020	0.011	0.014	ppm
03:00 – 04:00	0.021	0.012	0.013	ppm
04:00 – 05:00	0.038	0.005	0.009	ppm
05:00 – 06:00	0.006	0.007	0.010	ppm
06:00 – 07:00	0.006	0.006	0.011	ppm
07:00 – 08:00	0.005	0.011	0.014	ppm
08:00 – 09:00	0.006	0.020	0.015	ppm
09:00 – 10:00	0.039	0.018	0.027	ppm
Maximum 1 hr.	0.040	0.034	0.032	ppm
Average 24 hr.	0.019	0.016	0.020	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

28/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA65-R0352

Report No. R6503-0922 – R6503-0924

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model 200A S/N ENOAI200E03217

SAMPLE NO. : 03402-03404  
SAMPLING DATE : 14-17/03/2022  
RECEIVED DATE : 17/03/2022  
REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
10:00 – 11:00 <sup>3</sup>	0.009	0.014	0.007	ppm
11:00 – 12:00	0.008	0.010	0.008	ppm
12:00 – 13:00	0.012	0.011	0.009	ppm
13:00 – 14:00	0.010	0.009	0.010	ppm
14:00 – 15:00	0.014	0.007	0.010	ppm
15:00 – 16:00	0.014	0.006	0.015	ppm
16:00 – 17:00	0.015	0.009	0.013	ppm
17:00 – 18:00	0.012	0.007	0.015	ppm
18:00 – 19:00	0.008	0.009	0.016	ppm
19:00 – 20:00	0.008	0.007	0.011	ppm
20:00 – 21:00	0.008	0.004	0.007	ppm
21:00 – 22:00	0.008	0.003	0.005	ppm
22:00 – 23:00	0.006	0.006	0.007	ppm
23:00 – 00:00	0.005	0.005	0.011	ppm
00:00 – 01:00	0.004	0.009	0.008	ppm
01:00 – 02:00	0.006	0.010	0.004	ppm
02:00 – 03:00	0.006	0.008	0.006	ppm
03:00 – 04:00	0.007	0.008	0.008	ppm
04:00 – 05:00	0.009	0.011	0.006	ppm
05:00 – 06:00	0.007	0.010	0.009	ppm
06:00 – 07:00	0.009	0.009	0.011	ppm
07:00 – 08:00	0.009	0.008	0.015	ppm
08:00 – 09:00	0.015	0.008	0.013	ppm
09:00 – 10:00	0.018	0.009	0.011	ppm
Maximum 1 hr.	0.018	0.014	0.016	ppm
Average 24 hr.	0.009	0.008	0.010	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 

(MS. THANATPORN KLINSOPON)

21/03/2022

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

COPY

Request No. LA65-R05135

Report No. R6505-3240 – R6505-3242

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 10150-10152  
DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 16-19/05/2022  
INSTRUMENT : API Model T200 S/N 6757 RECEIVED DATE : 19/05/2022  
REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
10:00 – 11:00 <sup>1</sup>	0.011	0.017	0.015	ppm
11:00 – 12:00	0.005	0.016	0.020	ppm
12:00 – 13:00	0.011	0.018	0.025	ppm
13:00 – 14:00	0.015	0.019	0.016	ppm
14:00 – 15:00	0.015	0.024	0.020	ppm
15:00 – 16:00	0.016	0.030	0.021	ppm
16:00 – 17:00	0.014	0.031	0.020	ppm
17:00 – 18:00	0.013	0.033	0.017	ppm
18:00 – 19:00	0.013	0.040	0.017	ppm
19:00 – 20:00	0.018	0.031	0.017	ppm
20:00 – 21:00	0.019	0.025	0.017	ppm
21:00 – 22:00	0.018	0.016	0.019	ppm
22:00 – 23:00	0.017	0.015	0.022	ppm
23:00 – 00:00	0.013	0.024	0.017	ppm
00:00 – 01:00	0.011	0.020	0.009	ppm
01:00 – 02:00	0.011	0.021	0.006	ppm
02:00 – 03:00	0.011	0.013	0.005	ppm
03:00 – 04:00	0.005	0.013	0.005	ppm
04:00 – 05:00	0.005	0.014	0.006	ppm
05:00 – 06:00	0.005	0.010	0.008	ppm
06:00 – 07:00	0.008	0.010	0.009	ppm
07:00 – 08:00	0.012	0.011	0.010	ppm
08:00 – 09:00	0.013	0.015	0.010	ppm
09:00 – 10:00	0.015	0.018	0.009	ppm
Maximum 1 hr.	0.019	0.040	0.025	ppm
Average 24 hr.	0.012	0.020	0.014	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat P. Niamsan)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(MR. THONGCHAI BOONSAK)

19/05/2022

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

COPY



Request No. LA65-R0155

Report No. R6501-1279 – R6501-1281

# TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณที่ทำการข่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 01369-01371  
DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 19-22/01/2022  
INSTRUMENT : API Model M100E S/N 603 RECEIVED DATE : 22/01/2022  
REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
09:00 – 10:00 <sup>3</sup>	0.001	0.004	0.003	ppm
10:00 – 11:00	0.001	0.003	0.003	ppm
11:00 – 12:00	0.001	0.003	0.003	ppm
12:00 – 13:00	0.001	0.003	0.003	ppm
13:00 – 14:00	0.001	0.003	0.003	ppm
14:00 – 15:00	0.002	0.003	0.003	ppm
15:00 – 16:00	0.002	0.003	0.003	ppm
16:00 – 17:00	0.001	0.003	0.003	ppm
17:00 – 18:00	0.001	0.004	0.003	ppm
18:00 – 19:00	0.002	0.004	0.003	ppm
19:00 – 20:00	0.002	0.004	0.004	ppm
20:00 – 21:00	0.002	0.004	0.003	ppm
21:00 – 22:00	0.003	0.003	0.004	ppm
22:00 – 23:00	0.003	0.003	0.003	ppm
23:00 – 00:00	0.003	0.003	0.003	ppm
00:00 – 01:00	0.003	0.003	0.003	ppm
01:00 – 02:00	0.003	0.003	0.003	ppm
02:00 – 03:00	0.003	0.003	0.003	ppm
03:00 – 04:00	0.003	0.003	0.003	ppm
04:00 – 05:00	0.004	0.003	0.003	ppm
05:00 – 06:00	0.004	0.003	0.003	ppm
06:00 – 07:00	0.004	0.003	0.003	ppm
07:00 – 08:00	0.004	0.003	0.003	ppm
08:00 – 09:00	0.004	0.003	0.003	ppm
Maximum 1 hr.	0.004	0.004	0.004	ppm
Average 24 hr.	0.002	0.003	0.003	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)

<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

<sup>3</sup> Start Time

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



Approved By.....

(MS. THANATPORN KLINSOPON)

28/01/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA65-R0352

Report No. R6503-0925 – R6503-0927

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 PARAMETER\* : Sulfur Dioxide  
 DETERMINATION METHOD : UV-Fluorescence  
 INSTRUMENT : API Model M100E S/N 603

SAMPLE NO. : 03405-03407  
 SAMPLING DATE : 14-17/03/2022  
 RECEIVED DATE : 17/03/2022  
 REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
09:00 – 10:00 <sup>3</sup>	0.004	0.004	0.004	ppm
10:00 – 11:00	0.004	0.004	0.005	ppm
11:00 – 12:00	0.004	0.004	0.004	ppm
12:00 – 13:00	0.004	0.004	0.004	ppm
13:00 – 14:00	0.004	0.004	0.005	ppm
14:00 – 15:00	0.004	0.004	0.004	ppm
15:00 – 16:00	0.004	0.004	0.004	ppm
16:00 – 17:00	0.004	0.004	0.004	ppm
17:00 – 18:00	0.004	0.004	0.005	ppm
18:00 – 19:00	0.004	0.004	0.004	ppm
19:00 – 20:00	0.004	0.004	0.004	ppm
20:00 – 21:00	0.005	0.004	0.004	ppm
21:00 – 22:00	0.004	0.004	0.004	ppm
22:00 – 23:00	0.004	0.004	0.006	ppm
23:00 – 00:00	0.004	0.004	0.011	ppm
00:00 – 01:00	0.004	0.004	0.004	ppm
01:00 – 02:00	0.004	0.004	0.006	ppm
02:00 – 03:00	0.005	0.004	0.013	ppm
03:00 – 04:00	0.004	0.004	0.012	ppm
04:00 – 05:00	0.004	0.004	0.004	ppm
05:00 – 06:00	0.004	0.004	0.004	ppm
06:00 – 07:00	0.004	0.004	0.005	ppm
07:00 – 08:00	0.004	0.005	0.004	ppm
08:00 – 09:00	0.004	0.004	0.004	ppm
Maximum 1 hr.	0.005	0.005	0.013	ppm
Average 24 hr.	0.004	0.004	0.005	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

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

(MS. THANATPORN KLINSOPON)

21/03/2022

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Request No. LA65-R05135

Report No. R6505-3243 – R6505-3245

## TEST REPORT


CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A, Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.  
 PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 10153-10155  
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 16-19/05/2022  
 INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ RECEIVED DATE : 19/05/2022  
 REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
09:00 – 10:00 <sup>3</sup>	0.004	0.001	0.001	ppm
10:00 – 11:00	<0.001	<0.001	0.001	ppm
11:00 – 12:00	0.001	0.001	0.002	ppm
12:00 – 13:00	0.001	0.001	0.002	ppm
13:00 – 14:00	0.001	0.001	0.001	ppm
14:00 – 15:00	0.001	0.002	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	0.004	0.001	ppm
18:00 – 19:00	0.001	0.002	0.001	ppm
19:00 – 20:00	0.001	0.001	0.001	ppm
20:00 – 21:00	0.001	0.002	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
Maximum 1 hr.	0.004	0.004	0.002	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of the Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Boonsak)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

09/06/2022

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Request No. LA65-R0155

Report No. R6501-1285 – R6501-1287

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3139

SAMPLE NO. : 01375-01377  
SAMPLING DATE : 19-22/01/2022  
RECEIVED DATE : 22/01/2022  
REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
09:00 – 10:00 <sup>3</sup>	0.003	0.006	0.018	ppm
10:00 – 11:00	0.004	0.003	0.011	ppm
11:00 – 12:00	0.006	0.004	0.009	ppm
12:00 – 13:00	0.008	0.009	0.008	ppm
13:00 – 14:00	0.010	0.005	0.007	ppm
14:00 – 15:00	0.006	0.003	0.003	ppm
15:00 – 16:00	0.004	0.004	0.007	ppm
16:00 – 17:00	0.005	0.004	0.005	ppm
17:00 – 18:00	0.004	0.009	<0.001	ppm
18:00 – 19:00	0.005	0.005	0.002	ppm
19:00 – 20:00	0.003	0.008	0.003	ppm
20:00 – 21:00	0.003	0.009	0.004	ppm
21:00 – 22:00	0.003	0.009	0.002	ppm
22:00 – 23:00	0.003	0.003	0.004	ppm
23:00 – 00:00	0.003	0.008	0.005	ppm
00:00 – 01:00	0.004	0.003	0.002	ppm
01:00 – 02:00	0.003	0.006	0.003	ppm
02:00 – 03:00	0.005	0.006	0.004	ppm
03:00 – 04:00	0.009	0.005	0.006	ppm
04:00 – 05:00	0.009	0.009	0.003	ppm
05:00 – 06:00	0.004	0.007	0.006	ppm
06:00 – 07:00	0.005	0.006	0.002	ppm
07:00 – 08:00	0.003	0.011	0.005	ppm
08:00 – 09:00	0.004	0.014	0.007	ppm
Maximum 1 hr.	0.010	0.014	0.018	ppm
Average 24 hr.	0.005	0.006	0.005	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Phetankhuan)Approved By: 

(MS. THANATPORN KLINSOPON)

28/01/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA65-R0352

Report No. R6503-0931 - R6503-0933

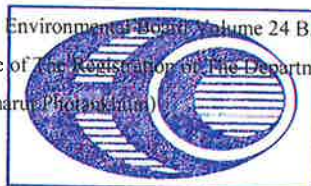
## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model T100 S/N 5700

SAMPLE NO. : 03411-03413  
SAMPLING DATE : 14-17/03/2022  
RECEIVED DATE : 17/03/2022  
REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
09:00 - 10:00 <sup>1</sup>	0.003	0.003	0.003	ppm
10:00 - 11:00	0.003	0.003	0.003	ppm
11:00 - 12:00	0.003	0.003	0.003	ppm
12:00 - 13:00	0.002	0.003	0.003	ppm
13:00 - 14:00	0.002	0.003	0.003	ppm
14:00 - 15:00	0.003	0.003	0.003	ppm
15:00 - 16:00	0.003	0.004	0.003	ppm
16:00 - 17:00	0.003	0.004	0.003	ppm
17:00 - 18:00	0.003	0.004	0.003	ppm
18:00 - 19:00	0.004	0.004	0.004	ppm
19:00 - 20:00	0.004	0.004	0.003	ppm
20:00 - 21:00	0.004	0.004	0.003	ppm
21:00 - 22:00	0.004	0.004	0.003	ppm
22:00 - 23:00	0.004	0.003	0.003	ppm
23:00 - 00:00	0.004	0.003	0.003	ppm
00:00 - 01:00	0.004	0.003	0.003	ppm
01:00 - 02:00	0.004	0.004	0.003	ppm
02:00 - 03:00	0.004	0.003	0.003	ppm
03:00 - 04:00	0.004	0.003	0.003	ppm
04:00 - 05:00	0.004	0.003	0.003	ppm
05:00 - 06:00	0.004	0.003	0.003	ppm
06:00 - 07:00	0.004	0.003	0.003	ppm
07:00 - 08:00	0.004	0.003	0.003	ppm
08:00 - 09:00	0.004	0.003	0.003	ppm
Maximum 1 hr.	0.004	0.004	0.004	ppm
Average 24 hr.	0.003	0.003	0.003	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

## REMARK :

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

21/03/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY



Request No. LA65-R05135

Report No. R6505-3249 – R6505-3251

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A, Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3220

SAMPLE NO. : 10159-10161  
SAMPLING DATE : 16-19/05/2022  
RECEIVED DATE : 19/05/2022  
REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
09:00 – 10:00 <sup>3</sup>	0.002	0.003	0.001	ppm
10:00 – 11:00	0.002	0.002	0.001	ppm
11:00 – 12:00	0.008	0.002	0.001	ppm
12:00 – 13:00	0.007	0.002	0.032	ppm
13:00 – 14:00	0.010	0.006	0.001	ppm
14:00 – 15:00	0.009	0.004	<0.001	ppm
15:00 – 16:00	0.005	0.003	0.001	ppm
16:00 – 17:00	0.005	0.001	<0.001	ppm
17:00 – 18:00	0.001	0.002	0.004	ppm
18:00 – 19:00	0.004	0.002	0.001	ppm
19:00 – 20:00	0.002	0.002	0.001	ppm
20:00 – 21:00	0.004	0.001	0.001	ppm
21:00 – 22:00	0.003	0.001	0.001	ppm
22:00 – 23:00	0.002	0.001	<0.001	ppm
23:00 – 00:00	0.002	<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	0.004	0.001	0.001	ppm
07:00 – 08:00	0.002	0.001	0.001	ppm
08:00 – 09:00	0.003	0.002	0.001	ppm
Maximum 1 hr.	0.010	0.006	0.032	ppm
Average 24 hr.	0.003	0.002	0.002	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(MR. THONGCHAI BOONSAK)

09/06/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA65-R0155

Report No. R6501-1291 – R6501-1293

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
 PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 01381-01383  
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 19-22/01/2022  
 INSTRUMENT : API Model M100E S/N 3137 RECEIVED DATE : 22/01/2022  
 REPORTED DATE : 28/01/2022

TIME / DATE	19-20/01/2022	20-21/01/2022	21-22/01/2022	UNIT
10:00 – 11:00 <sup>1/3</sup>	<0.001	0.001	0.001	ppm
11:00 – 12:00	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	0.002	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
Maximum 1 hr.	0.001	0.001	0.002	ppm
Average 24 hr.	<0.001	<0.001	0.001	ppm
Standard (1 hr.) <sup>1/</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2/</sup>	0.12	0.12	0.12	ppm

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

Approved By

(MS. THANATPORN KLINSOPON)

28/01/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA65-R0352

Report No. R6503-0919 - R6503-0921

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 640

SAMPLE NO. : 03399-03401  
SAMPLING DATE : 14-17/03/2022  
RECEIVED DATE : 17/03/2022  
REPORTED DATE : 21/03/2022

TIME / DATE	14-15/03/2022	15-16/03/2022	16-17/03/2022	UNIT
10:00 - 11:00 <sup>3</sup>	0.025	0.025	0.022	ppm
11:00 - 12:00	0.022	0.022	0.021	ppm
12:00 - 13:00	0.024	0.021	0.021	ppm
13:00 - 14:00	0.024	0.020	0.020	ppm
14:00 - 15:00	0.023	0.023	0.022	ppm
15:00 - 16:00	0.023	0.022	0.021	ppm
16:00 - 17:00	0.025	0.022	0.021	ppm
17:00 - 18:00	0.024	0.021	0.023	ppm
18:00 - 19:00	0.024	0.023	0.023	ppm
19:00 - 20:00	0.025	0.023	0.022	ppm
20:00 - 21:00	0.025	0.023	0.024	ppm
21:00 - 22:00	0.023	0.023	0.020	ppm
22:00 - 23:00	0.025	0.022	0.021	ppm
23:00 - 00:00	0.024	0.018	0.016	ppm
00:00 - 01:00	0.020	0.018	0.018	ppm
01:00 - 02:00	0.020	0.015	0.017	ppm
02:00 - 03:00	0.020	0.017	0.016	ppm
03:00 - 04:00	0.019	0.016	0.016	ppm
04:00 - 05:00	0.020	0.017	0.019	ppm
05:00 - 06:00	0.020	0.017	0.021	ppm
06:00 - 07:00	0.024	0.016	0.021	ppm
07:00 - 08:00	0.023	0.023	0.022	ppm
08:00 - 09:00	0.020	0.023	0.022	ppm
09:00 - 10:00	0.023	0.021	0.020	ppm
Maximum 1 hr.	0.025	0.025	0.024	ppm
Average 24 hr.	0.023	0.020	0.020	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phisitkorn)Approved By: 

(MS. THANATPORN KLINSOPON)

21/03/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA65-R05135

Report No. R6505-3237 – R6505-3239

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังท่าประมาณ 0.5 กม.  
 PARAMETER\* : Sulfur Dioxide  
 DETERMINATION METHOD : UV-Fluorescence  
 INSTRUMENT : API Model T100 S/N 1607

SAMPLE NO. : 10147-10149  
 SAMPLING DATE : 16-19/05/2022  
 RECEIVED DATE : 19/05/2022  
 REPORTED DATE : 09/06/2022

TIME / DATE	16-17/05/2022	17-18/05/2022	18-19/05/2022	UNIT
10:00 – 11:00 <sup>3</sup>	0.001	0.002	0.002	ppm
11:00 – 12:00	0.001	0.002	0.002	ppm
12:00 – 13:00	0.001	0.002	0.002	ppm
13:00 – 14:00	<0.001	0.002	0.002	ppm
14:00 – 15:00	<0.001	0.002	0.002	ppm
15:00 – 16:00	0.001	0.002	0.002	ppm
16:00 – 17:00	0.001	0.003	0.002	ppm
17:00 – 18:00	0.001	0.002	0.002	ppm
18:00 – 19:00	0.001	0.002	0.002	ppm
19:00 – 20:00	0.001	0.002	0.002	ppm
20:00 – 21:00	0.002	0.001	0.002	ppm
21:00 – 22:00	0.002	0.002	0.002	ppm
22:00 – 23:00	0.002	0.002	0.001	ppm
23:00 – 00:00	0.002	0.002	0.002	ppm
00:00 – 01:00	0.002	0.002	0.001	ppm
01:00 – 02:00	0.002	0.002	0.001	ppm
02:00 – 03:00	0.002	0.002	0.001	ppm
03:00 – 04:00	0.002	0.002	0.002	ppm
04:00 – 05:00	0.002	0.002	0.002	ppm
05:00 – 06:00	0.002	0.002	0.002	ppm
06:00 – 07:00	0.002	0.002	0.002	ppm
07:00 – 08:00	0.002	0.002	0.002	ppm
08:00 – 09:00	0.002	0.002	0.002	ppm
09:00 – 10:00	0.002	0.003	0.002	ppm
Maximum 1 hr.	0.002	0.003	0.002	ppm
Average 24 hr.	0.001	0.002	0.002	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of the Department of Industrial Works  
(Measurement By Mr. Tummarat Boonsak)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MR. THONGCHAI BOONSAK)

09/06/2022

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## Wind Speed &amp; Wind Direction

Request No. LA65-R0155

Siam Poongsan Metal Co., Ltd.

Sample No. 01387

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : January 19-22, 2022

Time	January 19-20, 2022		January 20-21, 2022		January 21-22, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.4	E	0.4	E
10:00-11:00	1.3	NE	0.4	ESE	0.4	E
11:00-12:00	2.2	NE	0.9	E	0.4	E
12:00-13:00	1.8	NE	0.4	ESE	0.0	-
13:00-14:00	0.9	NE	0.4	SW	0.9	SW
14:00-15:00	0.4	NE	0.9	SW	0.4	SSW
15:00-16:00	0.9	W	0.9	SW	0.9	SW
16:00-17:00	0.9	NW	0.9	SW	0.4	SSW
17:00-18:00	1.3	W	0.4	SSW	0.4	SSW
18:00-19:00	0.9	W	0.4	SSW	0.0	-
19:00-20:00	0.4	W	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	0.4	NE	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	-

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## Wind Speed &amp; Wind Direction

Request No. LA65-R0352

Siam Poongsan Metal Co., Ltd.

Sample No. 03418

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : March 14-17, 2022

Time	March 14-15, 2022		March 15-16, 2022		March 16-17, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.0	-	0.0	-
10:00-11:00	0.0	-	0.0	-	0.0	-
11:00-12:00	0.0	-	0.4	SSW	0.4	SW
12:00-13:00	0.0	-	0.4	SW	0.4	SSW
13:00-14:00	0.4	SSW	0.4	SW	0.9	SSW
14:00-15:00	0.4	SSW	0.4	SW	0.4	SSW
15:00-16:00	0.4	S	0.4	SSW	0.4	SW
16:00-17:00	0.4	S	0.4	SW	0.4	S
17:00-18:00	0.4	SSW	0.4	SSW	0.9	SSW
18:00-19:00	0.4	SSW	0.4	S	0.4	SSW
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	-

COPY

## Wind Speed &amp; Wind Direction

Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

Sample No. 10165

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : May 16-19, 2022

Time	May 16-17, 2022		May 17-18, 2022		May 18-19, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.0	-	0.9	ESE
10:00-11:00	0.0	-	0.0	-	1.1	SSE
11:00-12:00	0.5	SE	0.0	-	2.0	WNW
12:00-13:00	0.8	N	0.0	-	0.0	-
13:00-14:00	0.8	SE	0.9	WNW	0.0	-
14:00-15:00	1.1	SSE	1.1	SSE	0.0	-
15:00-16:00	0.5	S	1.5	NW	0.0	-
16:00-17:00	0.0	-	1.1	SE	0.0	-
17:00-18:00	0.0	-	0.5	SSE	0.0	-
18:00-19:00	0.0	-	0.5	SE	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	-	0.5	SE
22:00-23:00	0.0	-	0.0	-	0.8	SSW
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	-	0.5	ESE	0.5	SSE
08:00-09:00	0.0	-	0.8	SE	0.0	-

COPY

## Wind Speed &amp; Wind Direction

Request No. LA65-R0155

Siam Poongsan Metal Co., Ltd.

Sample No. 01388

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : January 19-22, 2022

Time	January 19-20, 2022		January 20-21, 2022		January 21-22, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.4	S	0.4	NNW	1.8	N
10:00-11:00	1.8	S	0.9	ENE	1.3	N
11:00-12:00	2.2	WSW	0.9	SSW	0.4	NE
12:00-13:00	2.2	SW	0.9	SE	0.9	ENE
13:00-14:00	1.3	SSE	1.3	SSE	1.3	S
14:00-15:00	0.9	S	3.6	SSE	1.3	SSW
15:00-16:00	0.9	W	3.1	SSE	1.3	E
16:00-17:00	1.3	W	2.7	SSE	1.3	ESE
17:00-18:00	2.7	SSW	1.8	E	1.8	E
18:00-19:00	1.8	SSW	1.3	E	0.9	ENE
19:00-20:00	1.3	SSW	0.4	ENE	0.4	ENE
20:00-21:00	0.0	-	0.4	NE	0.4	NE
21:00-22:00	0.4	W	0.0	-	0.0	-
22:00-23:00	0.9	NNW	0.0	-	0.0	-
23:00-00:00	0.4	ENE	0.0	-	0.0	-
00:00-01:00	0.0	-	0.0	-	0.0	-
01:00-02:00	0.4	NNW	0.0	-	0.0	-
02:00-03:00	0.4	NW	0.0	-	0.0	-
03:00-04:00	0.0	-	0.9	SSE	0.0	-
04:00-05:00	0.4	NNW	0.9	NE	0.0	-
05:00-06:00	0.4	NW	0.4	NE	0.0	-
06:00-07:00	0.4	NNW	0.4	NE	0.0	-
07:00-08:00	0.4	NNW	0.0	-	0.0	-
08:00-09:00	0.4	NW	0.4	NNW	0.0	-

COPY

## Wind Speed &amp; Wind Direction

Request No. LA65-R0352

Siam Poongsan Metal Co., Ltd.

Sample No. 03419

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : March 14-17, 2022

Time	March 14-15, 2022		March 15-16, 2022		March 16-17, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.9	SE	1.3	S
10:00-11:00	1.3	SSE	0.9	S	1.8	SSW
11:00-12:00	0.9	SSE	1.3	SSW	1.8	SSW
12:00-13:00	1.3	S	1.8	SSW	2.2	SSW
13:00-14:00	2.2	S	2.2	SSW	2.7	SSW
14:00-15:00	2.7	S	2.2	SSW	2.2	SSW
15:00-16:00	3.1	S	2.7	S	2.2	SSW
16:00-17:00	2.7	S	2.2	S	2.2	SSW
17:00-18:00	2.7	S	2.2	S	2.2	SSW
18:00-19:00	1.8	SSW	2.2	S	1.8	S
19:00-20:00	1.3	S	1.8	S	1.3	SSE
20:00-21:00	1.3	SSE	0.9	S	1.3	SSE
21:00-22:00	0.9	S	0.9	S	0.9	SSE
22:00-23:00	0.9	S	0.4	SSE	0.4	SE
23:00-00:00	0.9	S	0.4	SE	0.4	SE
00:00-01:00	0.9	S	0.4	SE	0.4	SE
01:00-02:00	0.9	S	0.4	SSE	0.4	SSE
02:00-03:00	0.4	SSE	0.9	SSE	0.4	SE
03:00-04:00	0.0	-	0.4	SE	0.0	-
04:00-05:00	0.4	SE	1.3	S	0.0	-
05:00-06:00	0.4	E	1.3	SSW	0.4	SE
06:00-07:00	0.0	-	1.3	S	0.0	-
07:00-08:00	0.0	-	0.9	S	0.4	E
08:00-09:00	0.0	-	0.9	S	0.4	SE

COPY



## Wind Speed &amp; Wind Direction

Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

Sample No. 10166

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : May 16-19, 2022

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

COPY



## Wind Speed &amp; Wind Direction

Request No. LA65-R0155

Siam Poongsan Metal Co., Ltd.

Sample No. 01389

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : January 19-22, 2022

Time	January 19-20, 2022		January 20-21, 2022		January 21-22, 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	-	2.2	SSE	2.7	ESE
11:00-12:00	1.8	ESE	3.1	SE	2.2	SE
12:00-13:00	1.8	SE	2.2	SE	1.3	ESE
13:00-14:00	1.8	SE	1.3	SW	1.8	WNW
14:00-15:00	0.9	SSE	4.0	NNW	2.2	N
15:00-16:00	0.9	SSE	4.5	NNW	2.2	N
16:00-17:00	0.9	NNW	3.6	NW	2.2	WSW
17:00-18:00	2.7	NNE	2.7	W	2.2	WSW
18:00-19:00	2.2	NNE	1.8	SW	2.7	S
19:00-20:00	1.3	NNE	2.2	SE	2.2	S
20:00-21:00	0.0	-	1.8	SE	1.8	S
21:00-22:00	0.0	-	1.3	SE	1.3	S
22:00-23:00	2.2	SE	0.9	SE	0.9	S
23:00-00:00	2.2	SE	0.9	SE	1.3	SSE
00:00-01:00	1.3	SE	0.9	SE	1.3	S
01:00-02:00	0.9	SE	0.9	SE	1.3	S
02:00-03:00	0.9	SE	0.9	ESE	1.3	SSE
03:00-04:00	0.0	-	1.8	NW	1.3	SSE
04:00-05:00	0.4	SSE	1.8	SE	1.3	SSE
05:00-06:00	0.4	SSE	1.8	SE	0.9	SSE
06:00-07:00	0.4	SE	2.2	ESE	0.9	S
07:00-08:00	0.4	SE	1.3	ESE	1.8	S
08:00-09:00	0.4	SSE	1.8	ESE	1.8	S
09:00-10:00	0.9	SSE	2.7	ESE	3.1	SSE

## Wind Speed &amp; Wind Direction

Request No. LA65-R0352

Siam Poongsan Metal Co., Ltd.

Sample No. 03417

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : March 14-17, 2022

Time	March 14-15, 2022		March 15-16, 2022		March 16-17, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	SSW	3.1	WNW	2.2	S
11:00-12:00	0.9	SSW	2.7	WNW	1.8	S
12:00-13:00	0.9	SW	2.7	S	2.2	ESE
13:00-14:00	1.3	SW	2.2	SSW	3.1	ESE
14:00-15:00	2.2	S	2.2	SSW	2.7	ESE
15:00-16:00	2.7	SSW	1.8	ESE	1.3	ESE
16:00-17:00	2.7	SSW	1.3	ESE	1.3	ESE
17:00-18:00	2.7	SSW	0.9	ESE	1.3	ESE
18:00-19:00	2.2	S	0.9	ESE	1.3	E
19:00-20:00	1.8	SSW	1.3	ESE	1.3	ESE
20:00-21:00	1.8	E	1.3	ESE	0.9	E
21:00-22:00	1.3	SSW	1.3	ESE	0.9	ENE
22:00-23:00	1.3	SSW	1.3	ESE	0.9	ENE
23:00-00:00	1.3	S	1.3	SSW	0.9	E
00:00-01:00	0.9	E	1.3	SSW	0.4	E
01:00-02:00	0.9	E	1.3	SSW	0.0	-
02:00-03:00	0.4	E	0.0	-	0.0	-
03:00-04:00	0.4	E	1.3	SSW	0.0	-
04:00-05:00	1.3	ESE	1.8	SSW	0.0	-
05:00-06:00	0.9	S	1.8	SSW	0.4	SW
06:00-07:00	0.9	S	2.2	SSW	0.9	SSW
07:00-08:00	1.3	S	2.7	SSW	1.3	SW
08:00-09:00	2.2	W	2.2	S	2.2	S
09:00-10:00	2.2	WSW	2.2	S	1.3	S

COPY

## Wind Speed &amp; Wind Direction

Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

Sample No. 10167

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : May 16-19, 2022

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

COPY

## Wind Speed & Wind Direction

Request No. LA65-R0155

Siam Poongsan Metal Co., Ltd.

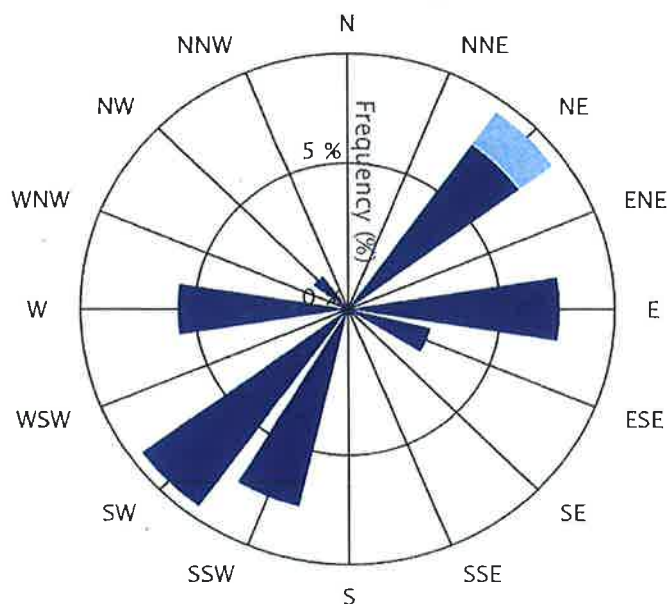
Sample No. 01387

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : January 19-22, 2022

Calm 59.7 %



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	1.4	0.0	0.0	0.0	0.0	8.3
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	6.9	0.0	0.0	0.0	0.0	0.0	6.9
ESE	2.8	0.0	0.0	0.0	0.0	0.0	2.8
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	6.9	0.0	0.0	0.0	0.0	0.0	6.9
SW	8.3	0.0	0.0	0.0	0.0	0.0	8.3
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	5.6	0.0	0.0	0.0	0.0	0.0	5.6
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	59.7						

COPY



## Wind Speed &amp; Wind Direction

Request No. LA65-R035

Siam Poongsan Metal Co., Ltd.

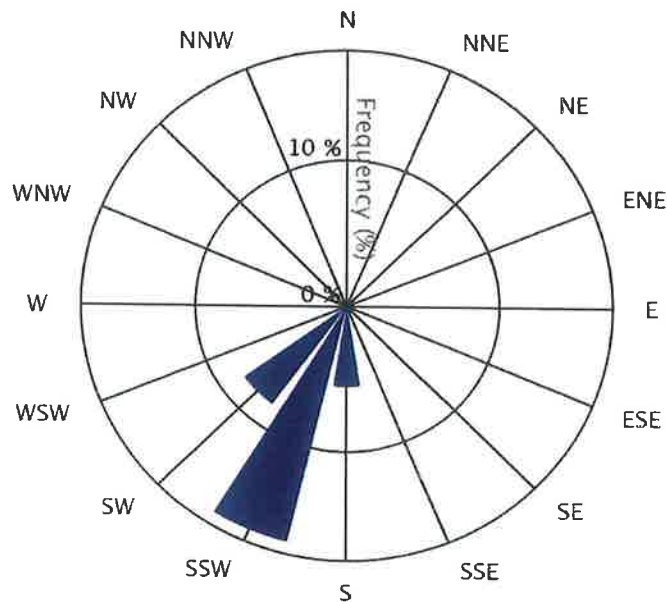
Sample No. 0341

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : March 14-17, 2022

Calm 69.4 %



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

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	5.6	0.0	0.0	0.0	0.0	0.0	5.6
SSW	16.7	0.0	0.0	0.0	0.0	0.0	16.7
SW	8.3	0.0	0.0	0.0	0.0	0.0	8.3
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	69.4						



## Wind Speed &amp; Wind Direction

Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

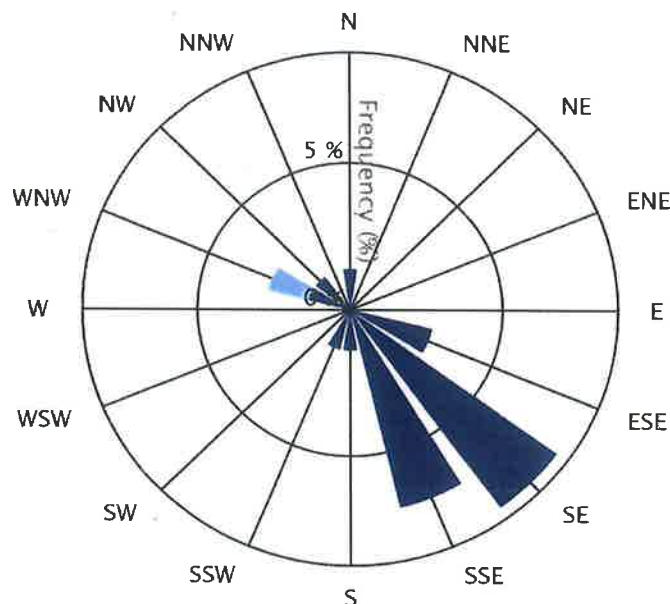
Sample No. 10165

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : May 16-19, 2022

Calm 73.6 %



0.4-1.9    2.0-3.9    4.0-5.9    6.0-7.9    8.0-9.9    &gt; 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	1.4	0.0	0.0	0.0	0.0	0.0	1.4
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	2.8	0.0	0.0	0.0	0.0	0.0	2.8
SE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
SSE	6.9	0.0	0.0	0.0	0.0	0.0	6.9
S	1.4	0.0	0.0	0.0	0.0	0.0	1.4
SSW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
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	1.4	1.4	0.0	0.0	0.0	0.0	2.8
NW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	73.6						

COPY

## Wind Speed &amp; Wind Direction

Request No. LA65-R0155

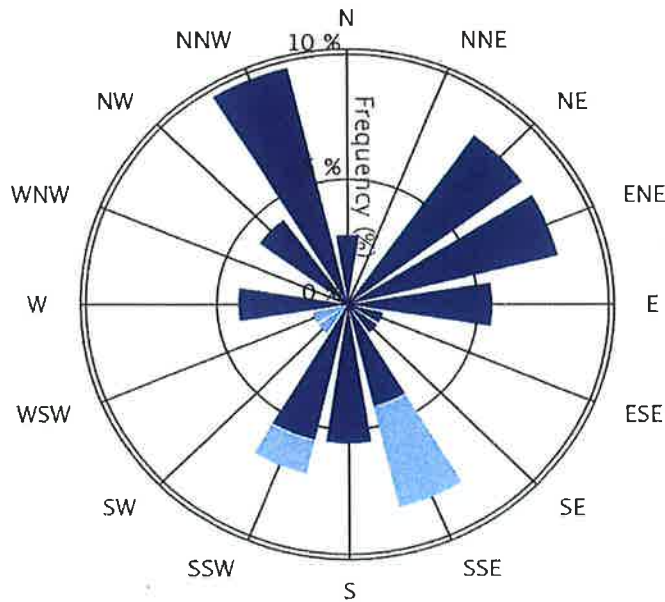
Siam Poongsan Metal Co., Ltd.

Sample No. 01388

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : January 19-22, 2022

Calm 30.6 %


 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	2.8	0.0	0.0	0.0	0.0	0.0	2.8
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
ENE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
E	5.6	0.0	0.0	0.0	0.0	0.0	5.6
ESE	1.4	0.0	0.0	0.0	0.0	0.0	1.4
SE	1.4	0.0	0.0	0.0	0.0	0.0	1.4
SSE	4.2	4.2	0.0	0.0	0.0	0.0	8.4
S	5.6	0.0	0.0	0.0	0.0	0.0	5.6
SSW	5.6	1.4	0.0	0.0	0.0	0.0	7.0
SW	0.0	1.4	0.0	0.0	0.0	0.0	1.4
WSW	0.0	1.4	0.0	0.0	0.0	0.0	1.4
W	4.2	0.0	0.0	0.0	0.0	0.0	4.2
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NNW	9.7	0.0	0.0	0.0	0.0	0.0	9.7
Calm	30.6						

COPY

## Wind Speed &amp; Wind Direction

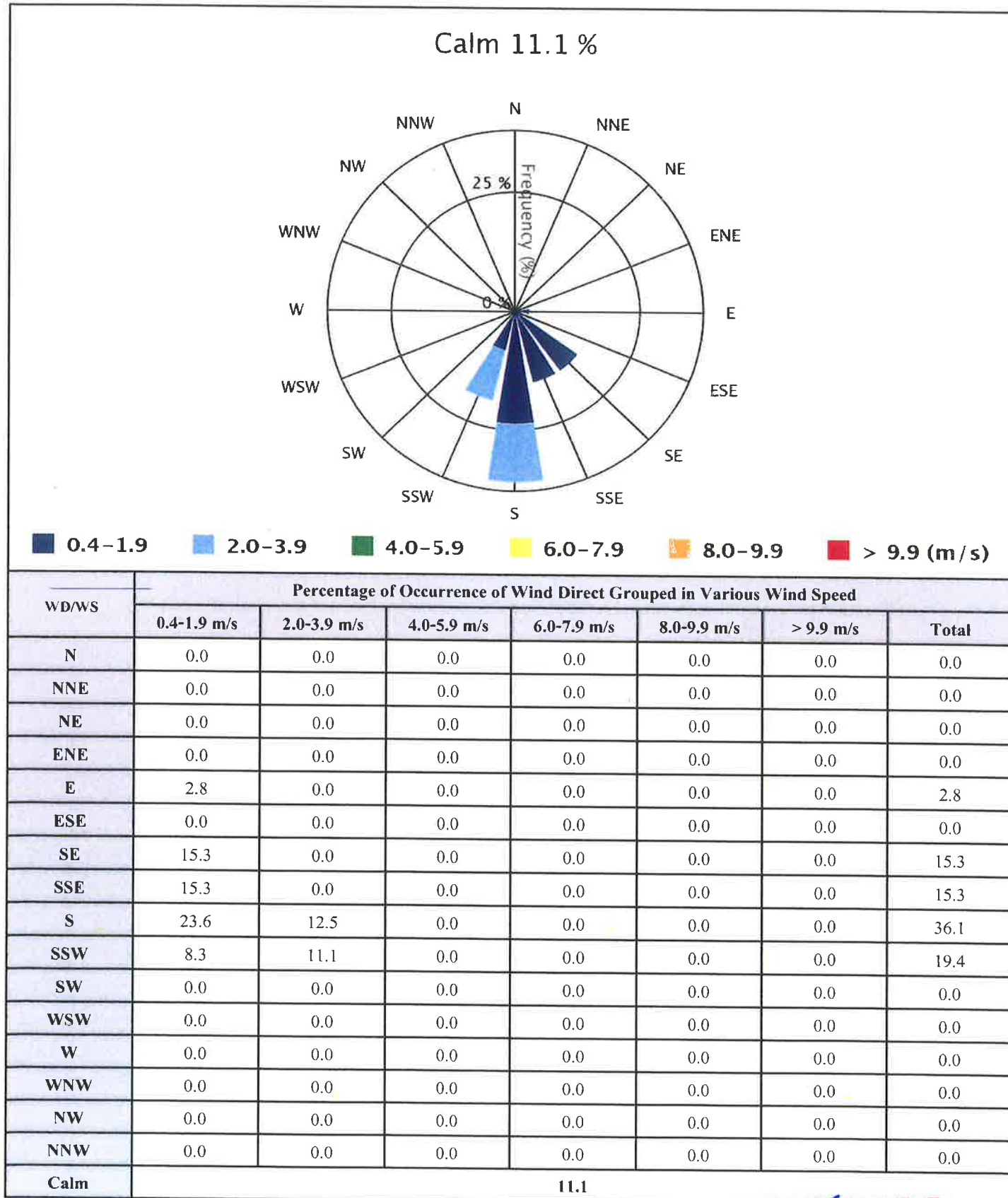
Request No. LA65-R035

Siam Poongsan Metal Co., Ltd.

Sample No. 0341

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : March 14-17, 2022



COPY



## Wind Speed &amp; Wind Direction

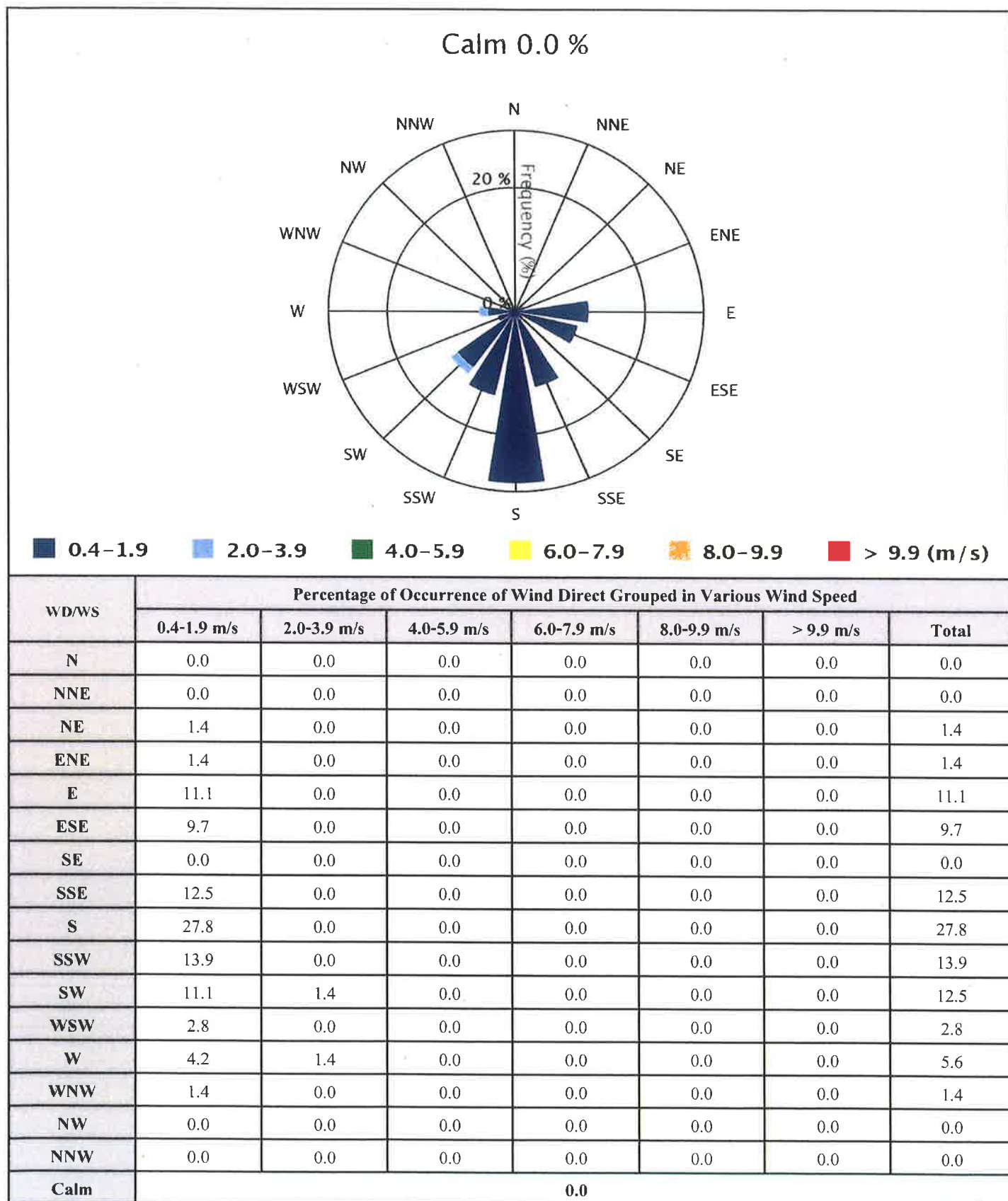
Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

Sample No. 10166

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : May 16-19, 2022



## Wind Speed & Wind Direction

Request No. LA65-R0155

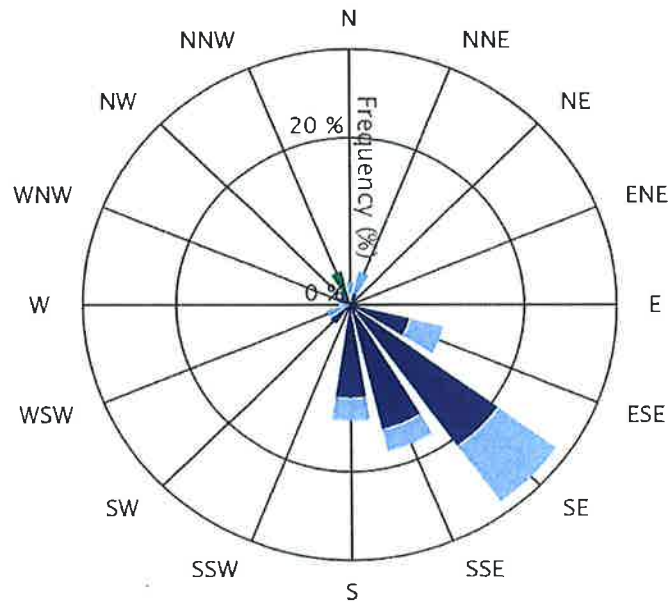
Siam Poongsan Metal Co., Ltd.

Sample No. 01389

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : January 19-22, 2022

Calm 5.6 %



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	2.8	0.0	0.0	0.0	0.0	2.8
NNE	1.4	2.8	0.0	0.0	0.0	0.0	4.2
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	6.9	4.2	0.0	0.0	0.0	0.0	11.1
SE	20.8	8.3	0.0	0.0	0.0	0.0	29.1
SSE	15.3	2.8	0.0	0.0	0.0	0.0	18.1
S	11.1	2.8	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	2.8	0.0	0.0	0.0	0.0	0.0	2.8
WSW	0.0	2.8	0.0	0.0	0.0	0.0	2.8
W	0.0	1.4	0.0	0.0	0.0	0.0	1.4
WNW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
NW	1.4	1.4	0.0	0.0	0.0	0.0	2.8
NNW	1.4	0.0	2.8	0.0	0.0	0.0	4.2
Calm	5.6						

COPY



## Wind Speed & Wind Direction

Request No. LA65-R035

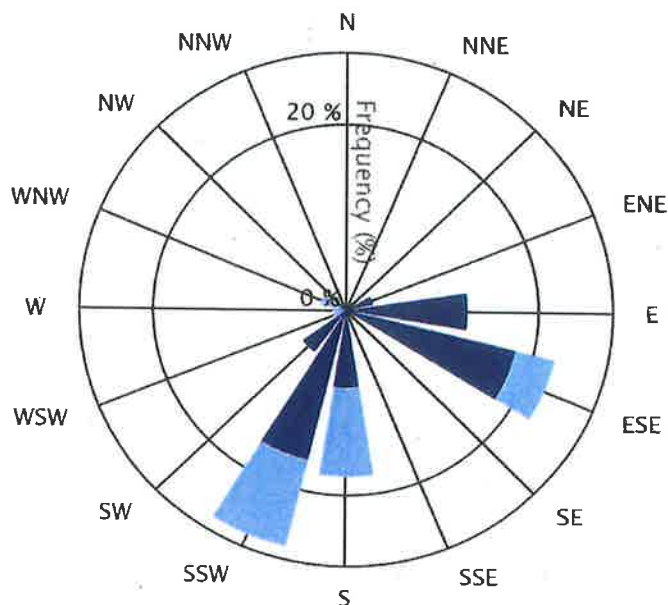
Siam Poongsan Metal Co., Ltd.

Sample No. 0341

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : March 14-17, 2022

Calm 6.9 %



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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	2.8	0.0	0.0	0.0	0.0	0.0	2.8
E	12.5	0.0	0.0	0.0	0.0	0.0	12.5
ESE	18.1	4.2	0.0	0.0	0.0	0.0	22.3
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8.3	9.7	0.0	0.0	0.0	0.0	18.0
SSW	16.7	9.7	0.0	0.0	0.0	0.0	26.4
SW	5.6	0.0	0.0	0.0	0.0	0.0	5.6
WSW	0.0	1.4	0.0	0.0	0.0	0.0	1.4
W	0.0	1.4	0.0	0.0	0.0	0.0	1.4
WNW	0.0	2.8	0.0	0.0	0.0	0.0	2.8
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	6.9						

COPY

## Wind Speed &amp; Wind Direction

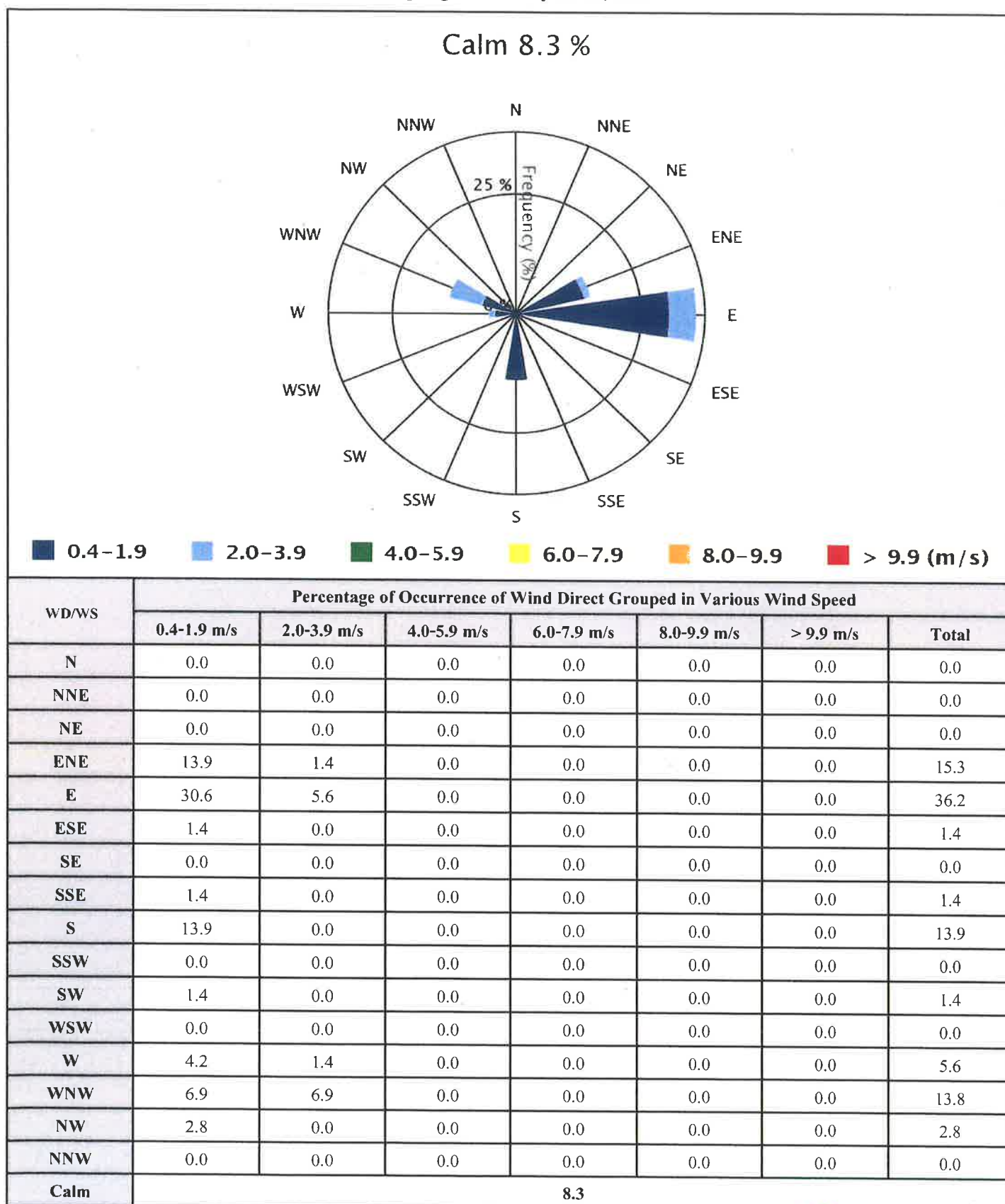
Request No. LA65-R05135

Siam Poongsan Metal Co., Ltd.

Sample No. 10167

Sampling Source : บริเวณเขตรุกิจการค้านิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : May 16-19, 2022



COPY

Request No. LA65-0119

Report No. 6501-0329

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Inlet Dust Collector of Melting Casting Stack  
 SAMPLING DATE : 20/01/2022  
 RECEIVED DATE : 21/01/2022  
 TESTED DATE : 21-26/01/2022  
 SAMPLE NO. : 00351  
 SAMPLING TIME : 08:50-09:20  
 REPORTED DATE : 28/01/2022

## STACK DESCRIPTION

Height :	-	m	Type of Process :	Exhaust
Diameter :	0.84	m	Type of Fuel :	-
Temperature :	51.00	°C	Oxygen Content :	20.90 %
Air Velocity :	20.81	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate <sup>1/</sup> :	9.99	m <sup>3</sup> /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	4.21	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1/</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	08:50-09:20	33.6	mg/m <sup>3</sup>

REMARK:<sup>1/</sup> DRY BASIS (25°C, 760 mm.Hg)

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

28/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

28/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA65-0316

Report No. 6504-0043

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Inlet Dust Collector of Melting Casting Stack  
 SAMPLING DATE : 14/03/2022  
 RECEIVED DATE : 18/03/2022  
 TESTED DATE : 18-21/03/2022  
 SAMPLE NO. : 01245  
 SAMPLING TIME : 10:30-11:00  
 REPORTED DATE : 02/04/2022

## STACK DESCRIPTION

Height :	-	m	Type of Process :	Exhaust
Diameter :	0.84	m	Type of Fuel :	-
Temperature :	42.00	°C	Oxygen Content :	20.90 %
Air Velocity :	19.98	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>1</sup> :	9.73	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.74	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:30-11:00	95.3	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> DRY BASIS (25°C, 760 mm.Hg)

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ก-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

02/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY



Request No. LA65-0536

Report No. 6505-0472

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Inlet Dust Collector of Melting Casting Stack  
 SAMPLING DATE : 16/05/2022  
 RECEIVED DATE : 17/05/2022  
 TESTED DATE : 17-24/05/2022  
 STACK DESCRIPTION

Height :	-	m	Type of Process :	Exhaust
Diameter :	0.84	m	Type of Fuel :	-
Temperature :	42.00	°C	Oxygen Content :	20.80 %
Air Velocity :	25.67	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>1)</sup> :	12.51	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	5.03	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1)</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:00-10:40	116.8	mg/m <sup>3</sup>

**REMARK:** <sup>1)</sup> DRY BASIS (25°C, 760 mm.Hg)

\* SAMPLING BY MR. TEERAPONG NAULIN (1-003-ก-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(1-003-ก-4377)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By

(MR. THONGCHAI BOONSAK)

(1-003-ก-5618)

25/05/2022

COPY

Request No. LA65-0119

Report No. 6501-0330

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Outlet Dust Collector of Melting Casting Stack  
 SAMPLING DATE : 20/01/2022  
 RECEIVED DATE : 21/01/2022  
 TESTED DATE : 21-26/01/2022  
 SAMPLE NO. : 00352  
 SAMPLING TIME : 08:50-09:20  
 REPORTED DATE : 28/01/2022

## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	52.00	°C	Oxygen Content :	20.90 %
Air Velocity :	19.07	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate <sup>2</sup> :	11.53	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	2.41	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	08:50-09:20	1.0	400	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS (25°C, 760 mm.Hg)

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

Examined By   
 (MISS APIRADEE CHUEN-AROM)  
 (ว-003-ค-4377)  
 28/01/2022



Approved By   
 (MR. THONGCHAI BOONSAK)  
 (ว-003-ค-5618)  
 28/01/2022

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



Request No. LA65-0316

Report No. 6504-0044

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Outlet Dust Collector of Melting Casting Stack  
 SAMPLING DATE : 14/03/2022  
 RECEIVED DATE : 18/03/2022  
 TESTED DATE : 18-21/03/2022  
 SAMPLE NO. : 01246  
 SAMPLING TIME : 10:30-11:05  
 REPORTED DATE : 02/04/2022

## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	
Temperature :	42.00	°C	Oxygen Content :	20.90 %
Air Velocity :	16.06	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>2</sup> :	9.85	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.04	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:30-11:05	1.2	400	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>2</sup> DRY BASIS (25°C, 760 mm.Hg)

\* SAMPLING BY MR. TEERAPONG NAULIN (๖-003-๓-5620)

Examined By



(MISS APIRADEE CHUEN-AROM)

(๖-003-๓-4377)

02/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(๖-003-๓-5618)

02/04/2022

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Request No. LA65-0536

Report No. 6505-0471

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : Outlet Dust Collector of Melting Casting Stack SAMPLE NO. : 02544  
 SAMPLING DATE : 16/05/2022 SAMPLING TIME : 10:00-10:30  
 RECEIVED DATE : 17/05/2022 REPORTED DATE : 25/05/2022  
 TESTED DATE : 17-24/05/2022  
 STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	49.00	°C	Oxygen Content :	20.90 %
Air Velocity :	20.08	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>1/2</sup> :	12.04	m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	4.32	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>1/2</sup>	STD <sup>1/1</sup>	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:00-10:30	1.1	400	mg/m <sup>3</sup>

**REMARK:**<sup>1/1</sup> NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)<sup>1/2</sup> DRY BASIS (25°C, 760 mm.Hg)

\* SAMPLING BY MR. TEERAPONG NAULIN (จ-003-ท-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

25/05/2022

COPY



## Test Report

Request No : W6501307

Report No : 6501-1910

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65011253

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 14/01/2022

Sampling By : ETC

Sampling Time : 11:00 AM

Sampling Method : Grab

Received Date : 15/01/2022

Tested Date : 15/01/2022 - 25/01/2022

Reported Date : 27/01/2022

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	3.3
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	124
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame	57.6
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame	0.86
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0
Temperature *	°C	Laboratory and Field	33
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	14
Zinc *	mg/l	Digestion, Inductively Coupled Plasma	45.3

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

2. Container : Normal [ PE 0.5 L\* (2 Bottle), 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,

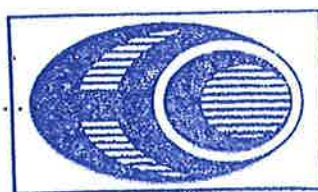
Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

3. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280) \*

Examined By

(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
27/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
27/01/2022

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

## Test Report

Request No : W6501307

Report No : 6501-1910

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65011253

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 14/01/2022

Sampling By : ETC

Sampling Time : 11:00 AM

Sampling Method : Grab

Received Date : 15/01/2022

Tested Date : 15/01/2022 - 25/01/2022

Reported Date : 27/01/2022

Parameter	Unit	Method	Result
pH (on site)		Electrometric	2.0

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

2. Container : Normal [ PE 0.5 L (2 Bottle), 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 Mr. Parkpoom Buasawad (จ-003-ก-7280)

Examined By : 

(Miss Apiradee Chuen-arom)

27/01/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6502208

Report No : 6502-1364

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65020781

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*

Sampling Date : 07/02/2022 \*

Sampling By : ETC \*

Sampling Time : 11:40 AM \*

Sampling Method : Grab \*

Received Date : 08/02/2022

Tested Date : 08/02/2022 - 19/02/2022

Reported Date : 22/02/2022

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)	150
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	155
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.59
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	10.5
Temperature *	°C	Laboratory and Field Method	36
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5

Physical Appearance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), 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) \*

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
22/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
22/02/2022

## Test Report

Request No : W 6502208

Report No : 6502-1364

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65020781

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*

Sampling Date : 07/02/2022 \*

Sampling By : ETC \*

Sampling Time : 11:40 AM \*

Sampling Method : Grab \*

Received Date : 08/02/2022

Tested Date : 08/02/2022 - 19/02/2022

Reported Date : 22/02/2022

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	101

Physical Appearance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), 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,

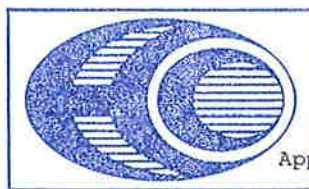
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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) \*

Examined By

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
22/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
22/02/2022



## Test Report

Request No : W6502208

Report No : 6502-1364

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65020781

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 07/02/2022

Sampling By : ETC

Sampling Time : 11:40 AM

Sampling Method : Grab

Received Date : 08/02/2022

Tested Date : 08/02/2022 - 19/02/2022

Reported Date : 22/02/2022

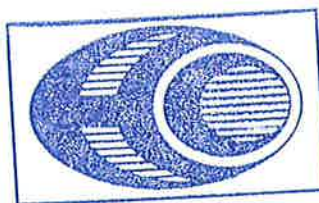
Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.0

Physical Apperance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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 Mr. Parkpoom Buasawad (ว-003-ค-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

22/02/2022

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## Test Report

Request No : W6503347

Report No : 6503-2077


Customer : Siam Poongsan Metal Co.,Ltd. \*  
Address : 38/14 Laenchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*  
Sampling Source : Siam Poongsan Metal Co.,Ltd. \*  
Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*  
Sampling By : ETC \*  
Sampling Method : Grab \*  
Tested Date : 14/03/2022 - 25/03/2022

Sample No : W 65031402  
Sampling Date : 11/03/2022 \*  
Sampling Time : 9:00 AM \*  
Received Date : 12/03/2022  
Reported Date : 31/03/2022

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)	57
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	226
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.53
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0
pH (on site) *		Electrometric Method	3.1
Temperature *	°C	Laboratory and Field Method	29
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5


Physical Appearance : 1. Sample : sky-blue, lightly SS  
2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,  
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.  
2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.  
3. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ท-7281) \*

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ท-4377)  
31/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ท-2205)  
31/03/2022

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## Test Report

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*

Sampling By : ETC \*

Sampling Method : Grab \*

Tested Date : 14/03/2022 - 25/03/2022

Sample No : W 65031402

Sampling Date : 11/03/2022 \*

Sampling Time : 9:00 AM \*

Received Date : 12/03/2022

Reported Date : 31/03/2022

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	121

Physical Apperance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), 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,

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

31/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

31/03/2022

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## Test Report

Request No : W6504200

Report No : 6504-1801

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65040814

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling Date : 06/04/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 9:10 AM \*\*

Sampling Method : Grab \*\*

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 22/04/2022

Reported Date : 27/04/2022

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)	54
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	91.6
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.34
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0
Temperature *	°C	Laboratory and Field Method	33
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5

Physical Appearance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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-ค-7280) \*

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

Examined By :

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
27/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla , A. Sriracha , Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling By : ETC \*\*

Sampling Method : Grab \*\*

Tested Date : 07/04/2022 - 22/04/2022

Sample No : W 65040814

Sampling Date : 06/04/2022 \*\*

Sampling Time : 9:10 AM \*\*

Received Date : 07/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion,Inductively Coupled Plasma Method (SM:3030F, 3120B)	82.9

Physical Apperance : 1. Sample : sky-blue , lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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,

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

27/04/2022

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## Test Report

Request No : W6504200

Report No : 6504-1801

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65040814

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 06/04/2022

Sampling By : ETC

Sampling Time : 9:10 AM

Sampling Method : Grab

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 22/04/2022

Reported Date : 27/04/2022

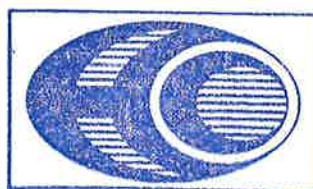
Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.6

Physical Apperance : 1. Sample : sky-blue, lightly SS


2. Container : Normal [ PE 0.5 L (2 Bottle), 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 Janthanee Saiphan (จ-003-ก-7281)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

27/04/2022

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## Test Report

Request No : W6505306

Report No : 6505-1877

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65051211

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling Date : 12/05/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:20 AM \*\*

Sampling Method : Grab \*\*

Received Date : 13/05/2022

Tested Date : 13/05/2022 - 24/05/2022

Reported Date : 25/05/2022

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)	79
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	103
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.36
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0
Temperature *	°C	Laboratory and Field Method	34
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

25/05/2022

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## Test Report

Request No : W6505306

Report No : 6505-1877

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65051211

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling Date : 12/05/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:20 AM \*\*

Sampling Method : Grab \*\*

Received Date : 13/05/2022

Tested Date : 13/05/2022 - 24/05/2022

Reported Date : 25/05/2022

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	69.6

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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.

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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)

25/05/2022



บริษัท อีตเชนไทยคณซัลติง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

25/05/2022

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## Test Report

Request No : W6505306

Report No : 6505- 1877

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla , A. Sriracha , Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65051211

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 12/05/2022

Sampling By : ETC

Sampling Time : 8:20 AM

Sampling Method : Grab

Received Date : 13/05/2022

Tested Date : 13/05/2022 - 24/05/2022

Reported Date : 25/05/2022

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.2

Physical Apperance : 1. Sample : yellowish , lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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 Mr. Parkpoom Buasawad (๖-003-ค-7280)

Examined By : 

(Miss Apiradee Chuen-arom)

25/05/2022

## Test Report

Request No : W6506413

Report No : 6506-2029

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungskula, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65061532

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling Date : 15/06/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:20 AM \*\*

Sampling Method : Grab \*\*

Received Date : 16/06/2022

Tested Date : 16/06/2022 - 24/06/2022

Reported Date : 28/06/2022

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)	54
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	127
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.41
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0
Temperature *	°C	Laboratory and Field Method	31
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5

Physical Apperance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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 / Mrs. Wanpen Lhaochindawat is Technical Management.

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

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

Examined By : 

(Miss Apiradee Chuen-arom)  
(จ-003-ท-4377)  
28/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Mrs. Wanpen Lhaochindawat)  
(จ-003-ท-2183)  
28/06/2022

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## Test Report

Request No : W6506413

Report No : 6506-2029

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65061532

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) \*\*

Sampling Date : 15/06/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:20 AM \*\*

Sampling Method : Grab \*\*

Received Date : 16/06/2022

Tested Date : 16/06/2022 - 24/06/2022

Reported Date : 28/06/2022

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	54.9

Physical Apperance : 1. Sample : sky-blue, lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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.

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

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

Examined By : 

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
28/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Mrs. Wanpen Lhaochindawat)  
(จ-003-ค-2183)  
28/06/2022

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## Test Report

Request No : W6506413

Customer : Siam Poongsan Metal Co.,Ltd.

Report No : 6506- 2029

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla , A. Sriracha , Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65061532

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 15/06/2022

Sampling By : ETC

Sampling Time : 8:20 AM

Sampling Method : Grab

Received Date : 16/06/2022

Tested Date : 16/06/2022 - 24/06/2022

Reported Date : 28/06/2022

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	1.3

Physical Apperance : 1. Sample : sky-blue , lightly SS

2. Container : Normal [ PE 0.5 L (2 Bottle), 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 Mr. Songpon Phiwuan (จ-003-ค-7279)



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Examined By : 

(Miss Apiradee Chuen-arom)

28/06/2022

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## Test Report

Request No : W6501307

Report No : 6501-1911

Customer : Siam Poongsan Metal Co.,Ltd.

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 65011254

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent)

Sampling Date : 14/01/2022

Sampling By : ETC

Sampling Time : 11:10 AM

Sampling Method : Grab

Received Date : 15/01/2022

Tested Date : 15/01/2022 - 25/01/2022

Reported Date : 27/01/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	29.6	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	86	≤750
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame	0.49	≤2
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤10
pH (on site) *		Electrometric	6.4	5.5 - 9.0
Temperature *	°C	Laboratory and Field	32	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	7	≤200
Zinc *	mg/l	Digestion, Inductively Coupled Plasma	0.30	≤5

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

2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 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.

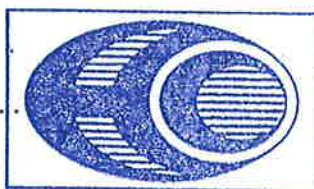
4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (1-003-ค-7280) \*

Examined By : .....

(Miss Apiradee Chuen-arom)

(1-003-ค-4377)

27/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(1-003-ค-2205)

27/01/2022

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## Test Report

Request No : W 6502208

Report No : 6502-1365

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65020782

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*

Sampling Date : 07/02/2022 \*

Sampling By : ETC \*

Sampling Time : 11:50 AM \*

Sampling Method : Grab \*

Received Date : 08/02/2022

Tested Date : 08/02/2022 - 19/02/2022

Reported Date : 22/02/2022

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.48	≤2
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.8	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	33	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

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

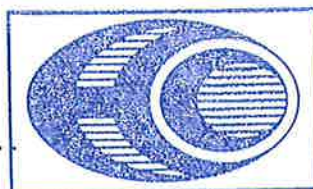
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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) \*

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
22/02/2022



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Approved By : .....

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
22/02/2022

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## Test Report

Request No : W6502208

Report No : 6502-1365

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65020782

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*

Sampling Date : 07/02/2022 \*

Sampling By : ETC \*

Sampling Time : 11:50 AM \*

Sampling Method : Grab \*

Received Date : 08/02/2022

Tested Date : 08/02/2022 - 19/02/2022

Reported Date : 22/02/2022

Parameter	Unit	Method	Result	Standard/I
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.25	≤5

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 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) \*

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
22/02/2022



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Approved By : .....

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
22/02/2022

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## Test Report

Request No : W6503347

Report No : 6503-2078

Customer : Siam Poongsan Metal Co.,Ltd. \*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65031403

Sample Name : น้ำทิ้งผ่านระบบบำบัด (Effluent) \*

Sampling Date : 11/03/2022 \*

Sampling By : ETC \*

Sampling Time : 9:10 AM \*

Sampling Method : Grab \*

Received Date : 12/03/2022

Tested Date : 14/03/2022 - 25/03/2022

Reported Date : 31/03/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Copper *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	1.03	≤2
Nickel *	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.0	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

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

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

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

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

Examined By :

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

31/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)

31/03/2022

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## Test Report

Customer : Siam Poongsan Metal Co.,Ltd. \*

Request No : W6503347

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*

Report No : 6503-2078

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*

Sample No : W 65031403

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*

Sampling Date : 11/03/2022 \*

Sampling By : ETC \*

Sampling Time : 9:10 AM \*

Sampling Method : Grab \*

Received Date : 12/03/2022

Tested Date : 14/03/2022 - 25/03/2022

Reported Date : 31/03/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.98	≤5

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L\* (2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

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

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

31/03/2022



บริษัท สีสเพินไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

31/03/2022

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## Test Report

Request No : W6504200

Report No : 6504-1802

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65040815

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling Date : 06/04/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 9:20 AM \*\*

Sampling Method : Grab \*\*

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 20/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.9	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤750
Copper @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.54	≤2
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.0	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	33	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	8	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 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)

27/04/2022



บริษัท ชีวภัณฑ์ไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

27/04/2022

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## Test Report

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling By : ETC \*\*

Sampling Method : Grab \*\*

Tested Date : 07/04/2022 - 20/04/2022

Sample No : W 65040815

Sampling Date : 06/04/2022 \*\*

Sampling Time : 9:20 AM \*\*

Received Date : 07/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc @	mg/l	Digestion,Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.47	≤5

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 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-ค-7280) \*

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

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
27/04/2022

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## Test Report

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Request No : W6505306

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Report No : 6505-1878

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65051212

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling Date : 12/05/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:30 AM \*\*

Sampling Method : Grab \*\*

Received Date : 13/05/2022

Tested Date : 13/05/2022 - 21/05/2022

Reported Date : 25/05/2022

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.1	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Copper @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	1.46	≤2
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.7	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 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)  
25/05/2022



Approved By : 

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
25/05/2022

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## Test Report

Request No : W6505306

Report No : 6505-1878

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65051212

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling Date : 12/05/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:30 AM \*\*

Sampling Method : Grab \*\*

Received Date : 13/05/2022

Tested Date : 13/05/2022 - 21/05/2022

Reported Date : 25/05/2022

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Zinc @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.46	≤5

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 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-ค-7280) \*

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

Examined By : 

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

25/05/2022

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## Test Report

Request No : W6506413

Report No : 6506-2030

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65061533

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling Date : 15/06/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:30 AM \*\*

Sampling Method : Grab \*\*

Received Date : 16/06/2022

Tested Date : 16/06/2022 - 25/06/2022

Reported Date : 28/06/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Copper @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.42	≤2
Nickel @	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	< 0.10	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.5	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : lightly SS

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

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 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 / Mrs. Wanpen Lhaochindawat is Technical Management.

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

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

Examined By : .....

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

28/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mrs. Wanpen Lhaochindawat)  
(จ-003-ค-2183)

28/06/2022

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

Customer : Siam Poongsan Metal Co.,Ltd. \*\*

Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla , A. Sriracha , Chonburi 20230 \*\*

Sampling Source : Siam Poongsan Metal Co.,Ltd. \*\*

Sample No : W 65061533

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) \*\*

Sampling Date : 15/06/2022 \*\*

Sampling By : ETC \*\*

Sampling Time : 8:30 AM \*\*

Sampling Method : Grab \*\*

Received Date : 16/06/2022

Tested Date : 16/06/2022 - 25/06/2022

Reported Date : 28/06/2022

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc @	mg / l	Digestion,Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.89	≤5

Physical Apperance : 1. Sample : lightly SS

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

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 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 / Mrs. Wanpen Lhaochindawat is Technical Management.

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

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

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

28/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mrs. Wanpen Lhaochindawat)

(จ-003-ค-2183)

28/06/2022

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ISO 9001 / ISO 14001

## EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0148

Report No. R6501-1114

### TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
 SAMPLE POINT : รีมรูด้านทิศเหนือ  
 PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 24 hr. & L<sub>dn#</sub>  
 DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
 INSTRUMENT : Integrated Sound Level Meter S/N 01209914 : Type 2

SAMPLE NO. : 01201  
 MEASURING DATE : 18-19/01/2022  
 RECEIVED DATE : 21/01/2022  
 REPORTED DATE : 25/01/2022

TIME \ DATE	18-19/01/2022 (L <sub>eq</sub> )	UNIT
09:05 – 10:05 <sup>13</sup>	74.8	dB(A)
10:05 – 11:05	73.5	dB(A)
11:05 – 12:05	65.5	dB(A)
12:05 – 13:05	70.9	dB(A)
13:05 – 14:05	75.2	dB(A)
14:05 – 15:05	74.3	dB(A)
15:05 – 16:05	67.0	dB(A)
16:05 – 17:05	70.8	dB(A)
17:05 – 18:05	67.9	dB(A)
18:05 – 19:05	66.1	dB(A)
19:05 – 20:05	66.5	dB(A)
20:05 – 21:05	66.9	dB(A)
21:05 – 22:05	65.9	dB(A)
22:05 – 23:05	65.7	dB(A)
23:05 – 00:05	65.3	dB(A)
00:05 – 01:05	65.2	dB(A)
01:05 – 02:05	65.0	dB(A)
02:05 – 03:05	65.2	dB(A)
03:05 – 04:05	65.0	dB(A)
04:05 – 05:05	65.4	dB(A)
05:05 – 06:05	65.7	dB(A)
06:05 – 07:05	66.3	dB(A)
07:05 – 08:05	66.8	dB(A)
08:05 – 09:05	72.8	dB(A)
L <sub>eq</sub> 24 hr.	69.7	dB(A)
L <sub>dn#</sub>	73.3	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>13</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of The Industry B.E. 2548 (2005)

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

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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

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**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : รีมรีวค้ำนทิสเหนือ  
PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 24 hr. & L<sub>dn#</sub>  
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 00209072 : Type 2

SAMPLE NO. : 02079  
MEASURING DATE : 08-09/02/2022  
RECEIVED DATE : 10/02/2022  
REPORTED DATE : 15/02/2022

TIME \ DATE	08-09/02/2022 (L <sub>eq</sub> )	UNIT
08:45 – 09:45 <sup>1)</sup>	74.5	dB(A)
09:45 – 10:45	74.9	dB(A)
10:45 – 11:45	71.0	dB(A)
11:45 – 12:45	66.3	dB(A)
12:45 – 13:45	73.8	dB(A)
13:45 – 14:45	74.3	dB(A)
14:45 – 15:45	70.0	dB(A)
15:45 – 16:45	66.6	dB(A)
16:45 – 17:45	67.3	dB(A)
17:45 – 18:45	67.0	dB(A)
18:45 – 19:45	67.5	dB(A)
19:45 – 20:45	67.2	dB(A)
20:45 – 21:45	66.6	dB(A)
21:45 – 22:45	67.1	dB(A)
22:45 – 23:45	66.6	dB(A)
23:45 – 00:45	66.4	dB(A)
00:45 – 01:45	66.5	dB(A)
01:45 – 02:45	66.6	dB(A)
02:45 – 03:45	66.2	dB(A)
03:45 – 04:45	66.4	dB(A)
04:45 – 05:45	66.7	dB(A)
05:45 – 06:45	67.3	dB(A)
06:45 – 07:45	68.3	dB(A)
07:45 – 08:45	67.9	dB(A)
L <sub>eq</sub> 24 hr.	69.7	dB(A)
L <sub>dn#</sub>	74.0	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of The Industry B.E. 2548 (2005)

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

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

(Measurement By Mr. Wattana Kholla)

<sup>1)</sup> Start Time



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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 04109
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 25-26/03/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 26/03/2022
SAMPLE POINT	: ริมรั้วด้านทิศเหนือ	REPORTED DATE	: 30/03/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: In-house Method:A-DM-002 based on ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 00443357 : Type 2		

TIME \ DATE	25-26/03/2022 ( $L_{eq}$ )	UNIT
09:00 – 10:00 <sup>1)</sup>	65.8	dB(A)
10:00 – 11:00	66.7	dB(A)
11:00 – 12:00	64.9	dB(A)
12:00 – 13:00	64.8	dB(A)
13:00 – 14:00	67.9	dB(A)
14:00 – 15:00	66.8	dB(A)
15:00 – 16:00	64.4	dB(A)
16:00 – 17:00	64.6	dB(A)
17:00 – 18:00	65.2	dB(A)
18:00 – 19:00	63.7	dB(A)
19:00 – 20:00	65.0	dB(A)
20:00 – 21:00	66.0	dB(A)
21:00 – 22:00	67.1	dB(A)
22:00 – 23:00	67.2	dB(A)
23:00 – 00:00	66.2	dB(A)
00:00 – 01:00	67.1	dB(A)
01:00 – 02:00	66.5	dB(A)
02:00 – 03:00	64.7	dB(A)
03:00 – 04:00	64.0	dB(A)
04:00 – 05:00	63.5	dB(A)
05:00 – 06:00	64.7	dB(A)
06:00 – 07:00	69.5	dB(A)
07:00 – 08:00	67.4	dB(A)
08:00 – 09:00	68.2	dB(A)
$L_{eq}$ 24 hr.	66.2	dB(A)
$L_{dn}$	72.7	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>2)</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

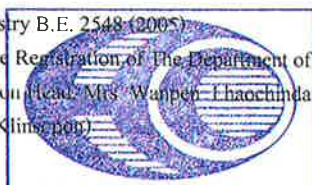
<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

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

(Measurement By Ms. Thanatporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

30/03/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05192
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 04-05/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: รีมรูด้านทิศเหนือ	REPORTED DATE	: 20/04/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn\#}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 01147299 : Type 2		

TIME \ DATE	04-05/04/2022 ( $L_{eq}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	61.5	dB(A)
10:00 - 11:00	57.7	dB(A)
11:00 - 12:00	58.5	dB(A)
12:00 - 13:00	58.5	dB(A)
13:00 - 14:00	57.6	dB(A)
14:00 - 15:00	58.2	dB(A)
15:00 - 16:00	58.6	dB(A)
16:00 - 17:00	57.0	dB(A)
17:00 - 18:00	57.4	dB(A)
18:00 - 19:00	58.5	dB(A)
19:00 - 20:00	55.1	dB(A)
20:00 - 21:00	56.3	dB(A)
21:00 - 22:00	57.1	dB(A)
22:00 - 23:00	57.2	dB(A)
23:00 - 00:00	57.1	dB(A)
00:00 - 01:00	57.1	dB(A)
01:00 - 02:00	57.2	dB(A)
02:00 - 03:00	57.0	dB(A)
03:00 - 04:00	56.6	dB(A)
04:00 - 05:00	56.6	dB(A)
05:00 - 06:00	57.2	dB(A)
06:00 - 07:00	57.0	dB(A)
07:00 - 08:00	59.4	dB(A)
08:00 - 09:00	60.5	dB(A)
$L_{eq}$ 24 hr.	57.9	dB(A)
$L_{dn\#}$	63.6	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	dB(A)

**REMARK :** <sup>1/3</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Manager, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)



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Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.		
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230		
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		
SAMPLE POINT	: ริมรั้วด้านทิศเหนือ	SAMPLE NO.	: 09283
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$	MEASURING DATE	: 10-11/05/2022
DETERMINATION METHOD	: ISO 1996-1:2016	RECEIVED DATE	: 13/05/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00443358 : Type 2	REPORTED DATE	: 31/05/2022

TIME \ DATE	10-11/05/2022 ( $L_{eq}$ )	UNIT
09:00 – 10:00 <sup>1)</sup>	72.7	dB(A)
10:00 – 11:00	72.9	dB(A)
11:00 – 12:00	69.0	dB(A)
12:00 – 13:00	70.0	dB(A)
13:00 – 14:00	73.5	dB(A)
14:00 – 15:00	72.1	dB(A)
15:00 – 16:00	71.1	dB(A)
16:00 – 17:00	71.4	dB(A)
17:00 – 18:00	69.9	dB(A)
18:00 – 19:00	71.0	dB(A)
19:00 – 20:00	65.8	dB(A)
20:00 – 21:00	64.7	dB(A)
21:00 – 22:00	64.0	dB(A)
22:00 – 23:00	63.8	dB(A)
23:00 – 00:00	64.5	dB(A)
00:00 – 01:00	64.3	dB(A)
01:00 – 02:00	64.1	dB(A)
02:00 – 03:00	62.8	dB(A)
03:00 – 04:00	62.2	dB(A)
04:00 – 05:00	62.9	dB(A)
05:00 – 06:00	64.5	dB(A)
06:00 – 07:00	66.3	dB(A)
07:00 – 08:00	66.9	dB(A)
08:00 – 09:00	70.4	dB(A)
$L_{eq}$ 24 hr.	69.0	dB(A)
$L_{dn}$	72.2	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

<sup>3)</sup> Start Time

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By...   
(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 13354
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 15-16/06/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 17/06/2022
SAMPLE POINT	: รีมรีวด้านทิศเหนือ	REPORTED DATE	: 22/06/2022
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 24 hr. & L <sub>dn#</sub>		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 090085 : Type 2		

TIME \ DATE	15-16/06/2022 (L <sub>eq</sub> )	UNIT
09:15 – 10:15 <sup>1/3</sup>	63.8	dB(A)
10:15 – 11:15	64.5	dB(A)
11:15 – 12:15	64.3	dB(A)
12:15 – 13:15	64.1	dB(A)
13:15 – 14:15	62.8	dB(A)
14:15 – 15:15	62.2	dB(A)
15:15 – 16:15	62.9	dB(A)
16:15 – 17:15	64.5	dB(A)
17:15 – 18:15	66.3	dB(A)
18:15 – 19:15	66.9	dB(A)
19:15 – 20:15	67.9	dB(A)
20:15 – 21:15	66.1	dB(A)
21:15 – 22:15	66.5	dB(A)
22:15 – 23:15	66.9	dB(A)
23:15 – 00:15	65.9	dB(A)
00:15 – 01:15	65.7	dB(A)
01:15 – 02:15	65.3	dB(A)
02:15 – 03:15	65.2	dB(A)
03:15 – 04:15	65.0	dB(A)
04:15 – 05:15	65.2	dB(A)
05:15 – 06:15	65.0	dB(A)
06:15 – 07:15	65.4	dB(A)
07:15 – 08:15	65.7	dB(A)
08:15 – 09:15	66.3	dB(A)
L <sub>eq</sub> 24 hr.	65.4	dB(A)
L <sub>dn#</sub>	71.9	dB(A)
Standard	70 <sup>1/</sup> , 70 <sup>2/</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2/</sup> Notification of Ministry of the Industry B.E. 2545 (2002)

<sup>3/</sup> Start Time

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**GOPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : รีมรื้อด้านทิศใต้  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr. &  $L_{dn}$   
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 00310455 : Type 2

SAMPLE NO. : 01199  
MEASURING DATE : 18-19/01/2022  
RECEIVED DATE : 21/01/2022  
REPORTED DATE : 25/01/2022

TIME \ DATE	18-19/01/2022 ( $L_{eq}$ )	UNIT
09:15 – 10:15 <sup>1)</sup>	62.3	dB(A)
10:15 – 11:15	62.4	dB(A)
11:15 – 12:15	61.8	dB(A)
12:15 – 13:15	62.0	dB(A)
13:15 – 14:15	63.6	dB(A)
14:15 – 15:15	64.0	dB(A)
15:15 – 16:15	62.1	dB(A)
16:15 – 17:15	62.8	dB(A)
17:15 – 18:15	64.2	dB(A)
18:15 – 19:15	64.8	dB(A)
19:15 – 20:15	65.4	dB(A)
20:15 – 21:15	64.5	dB(A)
21:15 – 22:15	65.0	dB(A)
22:15 – 23:15	64.5	dB(A)
23:15 – 00:15	59.6	dB(A)
00:15 – 01:15	61.3	dB(A)
01:15 – 02:15	62.8	dB(A)
02:15 – 03:15	62.6	dB(A)
03:15 – 04:15	62.1	dB(A)
04:15 – 05:15	62.5	dB(A)
05:15 – 06:15	63.2	dB(A)
06:15 – 07:15	64.4	dB(A)
07:15 – 08:15	64.4	dB(A)
08:15 – 09:15	67.4	dB(A)
$L_{eq}$ 24 hr.	63.6	dB(A)
$L_{dn}$	69.4	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of The Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoon is Section Chief, Ms. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Khot)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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

**COPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : ริมรั้วด้านทิศใต้  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr. &  $L_{dn\#}$  SAMPLE NO. : 02074  
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016 MEASURING DATE : 08-09/02/2022  
INSTRUMENT : Integrated Sound Level Meter S/N 01209914 : Type 2 RECEIVED DATE : 10/02/2022  
REPORTED DATE : 15/02/2022

TIME \ DATE	08-09/02/2022 ( $L_{eq}$ )	UNIT
09:05 – 10:05 <sup>1)</sup>	67.1	dB(A)
10:05 – 11:05	61.0	dB(A)
11:05 – 12:05	58.7	dB(A)
12:05 – 13:05	58.3	dB(A)
13:05 – 14:05	59.1	dB(A)
14:05 – 15:05	59.0	dB(A)
15:05 – 16:05	59.4	dB(A)
16:05 – 17:05	58.9	dB(A)
17:05 – 18:05	60.2	dB(A)
18:05 – 19:05	61.1	dB(A)
19:05 – 20:05	59.8	dB(A)
20:05 – 21:05	59.2	dB(A)
21:05 – 22:05	67.4	dB(A)
22:05 – 23:05	60.4	dB(A)
23:05 – 00:05	60.6	dB(A)
00:05 – 01:05	60.6	dB(A)
01:05 – 02:05	60.7	dB(A)
02:05 – 03:05	61.2	dB(A)
03:05 – 04:05	60.5	dB(A)
04:05 – 05:05	60.8	dB(A)
05:05 – 06:05	62.4	dB(A)
06:05 – 07:05	63.5	dB(A)
07:05 – 08:05	62.8	dB(A)
08:05 – 09:05	60.5	dB(A)
$L_{eq}$ 24 hr.	61.7	dB(A)
$L_{dn\#}$	67.8	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

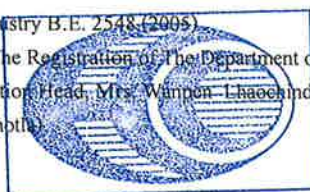
<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinoson is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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

**COPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : รีมรีวด้านทิศใต้  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr. &  $L_{dn}$   
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 00209079 : Type 2  
SAMPLE NO. : 03312  
MEASURING DATE : 07-08/03/2022  
RECEIVED DATE : 10/03/2022  
REPORTED DATE : 16/03/2022

TIME \ DATE	07-08/03/2022 ( $L_{eq}$ )	UNIT
08:45 – 09:45 <sup>1)</sup>	60.7	dB(A)
09:45 – 10:45	60.3	dB(A)
10:45 – 11:45	60.1	dB(A)
11:45 – 12:45	60.1	dB(A)
12:45 – 13:45	61.0	dB(A)
13:45 – 14:45	60.7	dB(A)
14:45 – 15:45	62.0	dB(A)
15:45 – 16:45	62.1	dB(A)
16:45 – 17:45	62.3	dB(A)
17:45 – 18:45	63.2	dB(A)
18:45 – 19:45	62.4	dB(A)
19:45 – 20:45	61.5	dB(A)
20:45 – 21:45	60.9	dB(A)
21:45 – 22:45	61.1	dB(A)
22:45 – 23:45	61.9	dB(A)
23:45 – 00:45	65.2	dB(A)
00:45 – 01:45	62.8	dB(A)
01:45 – 02:45	62.4	dB(A)
02:45 – 03:45	61.9	dB(A)
03:45 – 04:45	62.0	dB(A)
04:45 – 05:45	62.9	dB(A)
05:45 – 06:45	63.8	dB(A)
06:45 – 07:45	65.4	dB(A)
07:45 – 08:45	62.6	dB(A)
$L_{eq}$ 24 hr.	62.3	dB(A)
$L_{dn}$	69.1	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

<sup>1)</sup> Start Time

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section In-charge, Mrs. Wannan Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsopon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By...

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**COPY**



**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05191
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 04-05/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: ริมรั้วด้านทิศใต้	REPORTED DATE	: 20/04/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn\#}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 01209917 : Type 2		

TIME \ DATE	04-05/04/2022 ( $L_{eq}$ )	UNIT
09:00 - 10:00 <sup>/3</sup>	59.9	dB(A)
10:00 - 11:00	59.5	dB(A)
11:00 - 12:00	58.8	dB(A)
12:00 - 13:00	59.0	dB(A)
13:00 - 14:00	59.5	dB(A)
14:00 - 15:00	59.2	dB(A)
15:00 - 16:00	59.2	dB(A)
16:00 - 17:00	61.0	dB(A)
17:00 - 18:00	62.2	dB(A)
18:00 - 19:00	62.7	dB(A)
19:00 - 20:00	61.8	dB(A)
20:00 - 21:00	58.4	dB(A)
21:00 - 22:00	58.5	dB(A)
22:00 - 23:00	57.1	dB(A)
23:00 - 00:00	56.4	dB(A)
00:00 - 01:00	56.3	dB(A)
01:00 - 02:00	56.4	dB(A)
02:00 - 03:00	56.1	dB(A)
03:00 - 04:00	57.0	dB(A)
04:00 - 05:00	59.8	dB(A)
05:00 - 06:00	61.8	dB(A)
06:00 - 07:00	63.3	dB(A)
07:00 - 08:00	62.2	dB(A)
08:00 - 09:00	58.9	dB(A)
$L_{eq}$ 24 hr.	59.9	dB(A)
$L_{dn\#}$	65.7	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works

(Ms. Thanatporn Klinsoopon is Section Head of Noise and Vibration at Chaochindawat is Technical Management)

(Measurement By Ms. Thanatporn Klinsoopon)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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

**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 09281
ADDRESS	: 38/14 Moo 5 T., Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 10-11/05/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 13/05/2022
SAMPLE POINT	: รีมรีวด้านทิศใต้	REPORTED DATE	: 31/05/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 090085 : Type 2		

TIME \ DATE	10-11/05/2022 ( $L_{eq}$ )	UNIT
09:20 – 10:20 <sup>3</sup>	67.1	dB(A)
10:20 – 11:20	61.0	dB(A)
11:20 – 12:20	58.7	dB(A)
12:20 – 13:20	58.3	dB(A)
13:20 – 14:20	59.1	dB(A)
14:20 – 15:20	59.0	dB(A)
15:20 – 16:20	59.4	dB(A)
16:20 – 17:20	58.9	dB(A)
17:20 – 18:20	60.2	dB(A)
18:20 – 19:20	61.1	dB(A)
19:20 – 20:20	59.8	dB(A)
20:20 – 21:20	59.2	dB(A)
21:20 – 22:20	67.4	dB(A)
22:20 – 23:20	60.4	dB(A)
23:20 – 00:20	60.6	dB(A)
00:20 – 01:20	60.6	dB(A)
01:20 – 02:20	60.7	dB(A)
02:20 – 03:20	61.2	dB(A)
03:20 – 04:20	60.5	dB(A)
04:20 – 05:20	60.8	dB(A)
05:20 – 06:20	62.4	dB(A)
06:20 – 07:20	63.5	dB(A)
07:20 – 08:20	62.8	dB(A)
08:20 – 09:20	60.5	dB(A)
$L_{eq}$ 24 hr.	61.7	dB(A)
$L_{dn}$	67.8	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Ms. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)

<sup>3</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 13352
ADDRESS	: 38/14 Moo 5 T. Tung Sukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 15-16/06/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 17/06/2022
SAMPLE POINT	: ริมรั้วด้านทิศใต้	REPORTED DATE	: 22/06/2022
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 24 hr. & L <sub>dn#</sub>		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 00646443 : Type 2		

TIME \ DATE	15-16/06/2022 (L <sub>eq</sub> )	UNIT
09:25 – 10:25 <sup>1)</sup>	61.3	dB(A)
10:25 – 11:25	60.5	dB(A)
11:25 – 12:25	60.2	dB(A)
12:25 – 13:25	64.1	dB(A)
13:25 – 14:25	62.8	dB(A)
14:25 – 15:25	61.8	dB(A)
15:25 – 16:25	62.5	dB(A)
16:25 – 17:25	61.7	dB(A)
17:25 – 18:25	63.1	dB(A)
18:25 – 19:25	64.9	dB(A)
19:25 – 20:25	67.7	dB(A)
20:25 – 21:25	64.7	dB(A)
21:25 – 22:25	64.7	dB(A)
22:25 – 23:25	64.7	dB(A)
23:25 – 00:25	64.4	dB(A)
00:25 – 01:25	64.9	dB(A)
01:25 – 02:25	65.0	dB(A)
02:25 – 03:25	64.9	dB(A)
03:25 – 04:25	64.9	dB(A)
04:25 – 05:25	65.4	dB(A)
05:25 – 06:25	65.5	dB(A)
06:25 – 07:25	66.0	dB(A)
07:25 – 08:25	65.0	dB(A)
08:25 – 09:25	64.1	dB(A)
L <sub>eq</sub> 24 hr.	64.3	dB(A)
L <sub>dn#</sub>	71.3	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (1995)

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

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

(Measurement By Ms. Thanatporn Klinsopon)

<sup>13)</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 01200
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 18-19/01/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 21/01/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันออก	REPORTED DATE	: 25/01/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: In-house Method:A-DM-002 based on ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 01209912 : Type 2		

TIME \ DATE	18-19/01/2022 ( $L_{eq}$ )	UNIT
09:10 – 10:10 <sup>1)</sup>	56.3	dB(A)
10:10 – 11:10	67.8	dB(A)
11:10 – 12:10	63.6	dB(A)
12:10 – 13:10	56.6	dB(A)
13:10 – 14:10	57.1	dB(A)
14:10 – 15:10	58.8	dB(A)
15:10 – 16:10	57.1	dB(A)
16:10 – 17:10	57.0	dB(A)
17:10 – 18:10	58.2	dB(A)
18:10 – 19:10	56.7	dB(A)
19:10 – 20:10	55.2	dB(A)
20:10 – 21:10	56.9	dB(A)
21:10 – 22:10	58.5	dB(A)
22:10 – 23:10	57.4	dB(A)
23:10 – 00:10	56.2	dB(A)
00:10 – 01:10	56.7	dB(A)
01:10 – 02:10	58.1	dB(A)
02:10 – 03:10	58.4	dB(A)
03:10 – 04:10	57.8	dB(A)
04:10 – 05:10	56.4	dB(A)
05:10 – 06:10	56.5	dB(A)
06:10 – 07:10	56.8	dB(A)
07:10 – 08:10	58.9	dB(A)
08:10 – 09:10	61.6	dB(A)
$L_{eq}$ 24 hr.	59.4	dB(A)
$L_{dn}$	64.2	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works

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

(Measurement By Mr. Wattana Khotla)

<sup>1)</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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

**COPY**



**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : รีมรีวด้านทิศตะวันออก  
PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 24 hr. & L<sub>dn#</sub>  
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 01209912 : Type 2

SAMPLE NO. : 02075  
MEASURING DATE : 08-09/02/2022  
RECEIVED DATE : 10/02/2022  
REPORTED DATE : 15/02/2022

TIME \ DATE	08-09/02/2022 (L <sub>eq</sub> )	UNIT
08:50 – 09:50 <sup>1)</sup>	69.3	dB(A)
09:50 – 10:50	56.2	dB(A)
10:50 – 11:50	54.9	dB(A)
11:50 – 12:50	55.4	dB(A)
12:50 – 13:50	55.7	dB(A)
13:50 – 14:50	55.7	dB(A)
14:50 – 15:50	57.3	dB(A)
15:50 – 16:50	55.4	dB(A)
16:50 – 17:50	55.9	dB(A)
17:50 – 18:50	55.7	dB(A)
18:50 – 19:50	55.4	dB(A)
19:50 – 20:50	57.9	dB(A)
20:50 – 21:50	58.1	dB(A)
21:50 – 22:50	57.3	dB(A)
22:50 – 23:50	57.1	dB(A)
23:50 – 00:50	57.5	dB(A)
00:50 – 01:50	58.3	dB(A)
01:50 – 02:50	58.8	dB(A)
02:50 – 03:50	57.5	dB(A)
03:50 – 04:50	57.0	dB(A)
04:50 – 05:50	57.0	dB(A)
05:50 – 06:50	57.3	dB(A)
06:50 – 07:50	56.7	dB(A)
07:50 – 08:50	56.2	dB(A)
L <sub>eq</sub> 24 hr.	59.1	dB(A)
L <sub>dn#</sub>	64.4	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

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

(Measurement By Mr. Wattana Khong)

<sup>1)</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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

**COPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : ริมรั้วด้านทิศตะวันออก  
PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 24 hr. & L<sub>dn#</sub>  
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 00443359 : Type 2

SAMPLE NO. : 03311  
MEASURING DATE : 07-08/03/2022  
RECEIVED DATE : 10/03/2022  
REPORTED DATE : 16/03/2022

TIME \ DATE	07-08/03/2022 (L <sub>eq</sub> )	UNIT
08:50 – 09:50 <sup>3</sup>	59.3	dB(A)
09:50 – 10:50	59.6	dB(A)
10:50 – 11:50	60.5	dB(A)
11:50 – 12:50	59.3	dB(A)
12:50 – 13:50	60.8	dB(A)
13:50 – 14:50	61.7	dB(A)
14:50 – 15:50	62.1	dB(A)
15:50 – 16:50	63.2	dB(A)
16:50 – 17:50	63.6	dB(A)
17:50 – 18:50	63.9	dB(A)
18:50 – 19:50	63.9	dB(A)
19:50 – 20:50	59.7	dB(A)
20:50 – 21:50	57.3	dB(A)
21:50 – 22:50	57.3	dB(A)
22:50 – 23:50	56.7	dB(A)
23:50 – 00:50	70.2	dB(A)
00:50 – 01:50	62.6	dB(A)
01:50 – 02:50	57.7	dB(A)
02:50 – 03:50	56.6	dB(A)
03:50 – 04:50	55.0	dB(A)
04:50 – 05:50	55.0	dB(A)
05:50 – 06:50	58.3	dB(A)
06:50 – 07:50	59.4	dB(A)
07:50 – 08:50	57.1	dB(A)
L <sub>eq</sub> 24 hr.	61.7	dB(A)
L <sub>dn#</sub>	68.7	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Ms. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)

<sup>3</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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

**COPY**

Request No. LA65-R0426

Report No. R6504-0634

# TEST REPORT

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05193
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 04-05/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันออก	REPORTED DATE	: 20/04/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter ; S/N NSMAC623690374 : Type 2		

TIME \ DATE	04-05/04/2022 ( $L_{eq}$ )	UNIT
09:00 - 10:00 <sup>/3</sup>	72.0	dB(A)
10:00 - 11:00	67.2	dB(A)
11:00 - 12:00	63.7	dB(A)
12:00 - 13:00	64.0	dB(A)
13:00 - 14:00	64.1	dB(A)
14:00 - 15:00	66.5	dB(A)
15:00 - 16:00	65.1	dB(A)
16:00 - 17:00	64.2	dB(A)
17:00 - 18:00	67.7	dB(A)
18:00 - 19:00	65.1	dB(A)
19:00 - 20:00	64.2	dB(A)
20:00 - 21:00	65.3	dB(A)
21:00 - 22:00	63.6	dB(A)
22:00 - 23:00	65.0	dB(A)
23:00 - 00:00	64.2	dB(A)
00:00 - 01:00	65.7	dB(A)
01:00 - 02:00	63.7	dB(A)
02:00 - 03:00	65.8	dB(A)
03:00 - 04:00	63.1	dB(A)
04:00 - 05:00	65.3	dB(A)
05:00 - 06:00	63.7	dB(A)
06:00 - 07:00	66.8	dB(A)
07:00 - 08:00	68.5	dB(A)
08:00 - 09:00	66.5	dB(A)
$L_{eq}$ 24 hr.	66.0	dB(A)
$L_{dn}$	71.6	dB(A)
Standard	$70^{/1}, 70^{/2}$	dB(A)

REMARK : <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

<sup>/3</sup> Start Time

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Ms. Thanatporn Klinsoonthorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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

**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 09280
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 10-11/05/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 13/05/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันออก	REPORTED DATE	: 31/05/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 00443357 : Type 2		

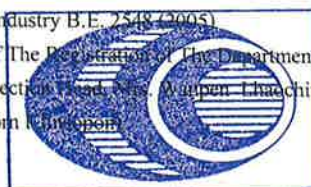
TIME \ DATE	10-11/05/2022 ( $L_{eq}$ )	UNIT
09:10 – 10:10 <sup>3</sup>	59.6	dB(A)
10:10 – 11:10	57.7	dB(A)
11:10 – 12:10	61.6	dB(A)
12:10 – 13:10	58.0	dB(A)
13:10 – 14:10	60.9	dB(A)
14:10 – 15:10	57.7	dB(A)
15:10 – 16:10	58.3	dB(A)
16:10 – 17:10	57.4	dB(A)
17:10 – 18:10	57.0	dB(A)
18:10 – 19:10	57.1	dB(A)
19:10 – 20:10	55.3	dB(A)
20:10 – 21:10	56.9	dB(A)
21:10 – 22:10	57.0	dB(A)
22:10 – 23:10	56.8	dB(A)
23:10 – 00:10	57.4	dB(A)
00:10 – 01:10	57.5	dB(A)
01:10 – 02:10	57.4	dB(A)
02:10 – 03:10	57.3	dB(A)
03:10 – 04:10	56.8	dB(A)
04:10 – 05:10	56.2	dB(A)
05:10 – 06:10	56.7	dB(A)
06:10 – 07:10	57.6	dB(A)
07:10 – 08:10	59.1	dB(A)
08:10 – 09:10	61.7	dB(A)
$L_{eq}$ 24 hr.	58.2	dB(A)
$L_{dn}$	63.8	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2549 (2005)

\* Parameter Outside The Scope of The Department of Industrial Works  
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsonon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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

**COPY**



**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 13351
ADDRESS	: 38/14 Moo 5 T, Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 15-16/06/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 17/06/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันออก	REPORTED DATE	: 22/06/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn\#}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 01147299 : Type 2		

TIME \ DATE	15-16/06/2022 ( $L_{eq}$ )	UNIT
09:20 – 10:20 <sup>3</sup>	59.6	dB(A)
10:20 – 11:20	56.6	dB(A)
11:20 – 12:20	56.8	dB(A)
12:20 – 13:20	59.9	dB(A)
13:20 – 14:20	58.9	dB(A)
14:20 – 15:20	60.4	dB(A)
15:20 – 16:20	58.1	dB(A)
16:20 – 17:20	57.6	dB(A)
17:20 – 18:20	57.1	dB(A)
18:20 – 19:20	57.5	dB(A)
19:20 – 20:20	58.1	dB(A)
20:20 – 21:20	58.2	dB(A)
21:20 – 22:20	58.5	dB(A)
22:20 – 23:20	57.8	dB(A)
23:20 – 00:20	58.1	dB(A)
00:20 – 01:20	58.6	dB(A)
01:20 – 02:20	58.0	dB(A)
02:20 – 03:20	58.1	dB(A)
03:20 – 04:20	58.1	dB(A)
04:20 – 05:20	58.7	dB(A)
05:20 – 06:20	57.6	dB(A)
06:20 – 07:20	57.0	dB(A)
07:20 – 08:20	60.4	dB(A)
08:20 – 09:20	59.9	dB(A)
$L_{eq}$ 24 hr.	58.4	dB(A)
$L_{dn\#}$	64.5	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

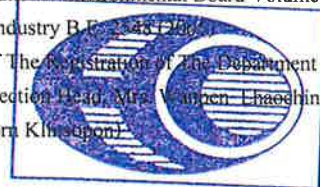
<sup>2</sup> Notification of Ministry of the Industry B.E. 2541 (1998)

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

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

(Measurement By Ms. Thanatporn Klinsopon)

<sup>3</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

*(Signature)*

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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

**COPY**



ISO 9001 / ISO 14001

## EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0148

Report No. R6501-1115

### TEST REPORT

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 01202
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 18-19/01/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 21/01/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันตก	REPORTED DATE	: 25/01/2022
PARAMETER*	: L <sub>1 hr.</sub> , L <sub>24 hr.</sub> & L <sub>dn#</sub>		
DETERMINATION METHOD	: In-house Method:A-DM-002 based on ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N G301607 : Type 2		

TIME \ DATE	18-19/01/2022 (L <sub>eq</sub> )	UNIT
09:00 – 10:00 <sup>1)</sup>	60.3	dB(A)
10:00 – 11:00	60.6	dB(A)
11:00 – 12:00	60.1	dB(A)
12:00 – 13:00	59.3	dB(A)
13:00 – 14:00	59.3	dB(A)
14:00 – 15:00	59.9	dB(A)
15:00 – 16:00	60.1	dB(A)
16:00 – 17:00	61.8	dB(A)
17:00 – 18:00	63.6	dB(A)
18:00 – 19:00	62.4	dB(A)
19:00 – 20:00	64.0	dB(A)
20:00 – 21:00	62.5	dB(A)
21:00 – 22:00	58.6	dB(A)
22:00 – 23:00	58.5	dB(A)
23:00 – 00:00	57.7	dB(A)
00:00 – 01:00	57.5	dB(A)
01:00 – 02:00	57.3	dB(A)
02:00 – 03:00	57.8	dB(A)
03:00 – 04:00	57.5	dB(A)
04:00 – 05:00	56.8	dB(A)
05:00 – 06:00	60.5	dB(A)
06:00 – 07:00	61.6	dB(A)
07:00 – 08:00	64.5	dB(A)
08:00 – 09:00	62.1	dB(A)
L <sub>24 hr.</sub>	60.8	dB(A)
L <sub>dn#</sub>	65.6	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>1)</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoon is Section Head, Mr. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Khutla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Approved By: (MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 02080
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 08-09/02/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 10/02/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันตก	REPORTED DATE	: 15/02/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn}$		
DETERMINATION METHOD	: In-house Method:A-DM-002 based on ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 00443357 : Type 2		

TIME \ DATE	08-09/02/2022 ( $L_{eq}$ )	UNIT
09:00 – 10:00 <sup>1</sup>	59.3	dB(A)
10:00 – 11:00	59.3	dB(A)
11:00 – 12:00	58.9	dB(A)
12:00 – 13:00	57.3	dB(A)
13:00 – 14:00	58.3	dB(A)
14:00 – 15:00	58.6	dB(A)
15:00 – 16:00	59.2	dB(A)
16:00 – 17:00	60.4	dB(A)
17:00 – 18:00	61.6	dB(A)
18:00 – 19:00	61.3	dB(A)
19:00 – 20:00	62.3	dB(A)
20:00 – 21:00	59.7	dB(A)
21:00 – 22:00	57.4	dB(A)
22:00 – 23:00	56.7	dB(A)
23:00 – 00:00	56.6	dB(A)
00:00 – 01:00	56.1	dB(A)
01:00 – 02:00	55.6	dB(A)
02:00 – 03:00	54.8	dB(A)
03:00 – 04:00	54.9	dB(A)
04:00 – 05:00	57.7	dB(A)
05:00 – 06:00	59.7	dB(A)
06:00 – 07:00	62.0	dB(A)
07:00 – 08:00	63.2	dB(A)
08:00 – 09:00	62.3	dB(A)
$L_{eq}$ 24 hr.	59.5	dB(A)
$L_{dn}$	64.7	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	dB(A)

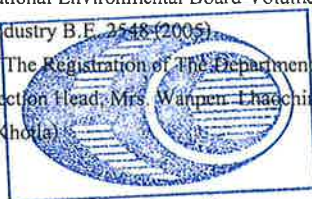
**REMARK :** <sup>#</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head; Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Wattana Khotla)

<sup>3</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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

**COPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.  
SAMPLE POINT : ริมรั้วด้านทิศตะวันตก  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr. &  $L_{dn}$   
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter S/N 01209916 : Type 2  
SAMPLE NO. : 03313  
MEASURING DATE : 07-08/03/2022  
RECEIVED DATE : 10/03/2022  
REPORTED DATE : 16/03/2022

TIME \ DATE	07-08/03/2022 ( $L_{eq}$ )	UNIT
08:40 – 09:40 <sup>13</sup>	61.9	dB(A)
09:40 – 10:40	56.3	dB(A)
10:40 – 11:40	54.2	dB(A)
11:40 – 12:40	58.3	dB(A)
12:40 – 13:40	57.8	dB(A)
13:40 – 14:40	57.8	dB(A)
14:40 – 15:40	58.9	dB(A)
15:40 – 16:40	58.3	dB(A)
16:40 – 17:40	57.3	dB(A)
17:40 – 18:40	57.9	dB(A)
18:40 – 19:40	54.3	dB(A)
19:40 – 20:40	56.8	dB(A)
20:40 – 21:40	57.0	dB(A)
21:40 – 22:40	56.8	dB(A)
22:40 – 23:40	56.5	dB(A)
23:40 – 00:40	61.5	dB(A)
00:40 – 01:40	58.4	dB(A)
01:40 – 02:40	57.6	dB(A)
02:40 – 03:40	54.9	dB(A)
03:40 – 04:40	54.3	dB(A)
04:40 – 05:40	56.3	dB(A)
05:40 – 06:40	56.9	dB(A)
06:40 – 07:40	56.9	dB(A)
07:40 – 08:40	62.8	dB(A)
$L_{eq}$ 24 hr.	58.1	dB(A)
$L_{dn}$	64.1	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	dB(A)

**REMARK :** <sup>13</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

<sup>13</sup> Start Time

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonpon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsonpon)



Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

16/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**COPY**



**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05194
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 04-05/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันตก	REPORTED DATE	: 20/04/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr. & $L_{dn#}$		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 090090 : Type 2		

TIME \ DATE	04-05/04/2022 ( $L_{eq}$ )	UNIT
09:00 - 10:00 <sup>/3</sup>	59.0	dB(A)
10:00 - 11:00	59.1	dB(A)
11:00 - 12:00	64.9	dB(A)
12:00 - 13:00	60.5	dB(A)
13:00 - 14:00	61.8	dB(A)
14:00 - 15:00	59.6	dB(A)
15:00 - 16:00	58.8	dB(A)
16:00 - 17:00	58.9	dB(A)
17:00 - 18:00	60.0	dB(A)
18:00 - 19:00	57.7	dB(A)
19:00 - 20:00	57.4	dB(A)
20:00 - 21:00	56.8	dB(A)
21:00 - 22:00	57.0	dB(A)
22:00 - 23:00	55.4	dB(A)
23:00 - 00:00	56.0	dB(A)
00:00 - 01:00	59.3	dB(A)
01:00 - 02:00	62.4	dB(A)
02:00 - 03:00	58.2	dB(A)
03:00 - 04:00	62.5	dB(A)
04:00 - 05:00	59.8	dB(A)
05:00 - 06:00	59.8	dB(A)
06:00 - 07:00	58.6	dB(A)
07:00 - 08:00	58.4	dB(A)
08:00 - 09:00	64.2	dB(A)
$L_{eq}$ 24 hr.	60.1	dB(A)
$L_{dn#}$	66.2	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (1995)

\* Parameter Outside The Scope of The Construction of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Chief, Ms. Chaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
20/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 09282
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 10-11/05/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 13/05/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันตก	REPORTED DATE	: 31/05/2022
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 24 hr. & L <sub>dn#</sub>		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 090087 : Type 2		

TIME \ DATE	10-11/05/2022 (L <sub>eq</sub> )	UNIT
08:50 – 09:50 <sup>1/3</sup>	60.2	dB(A)
09:50 – 10:50	60.2	dB(A)
10:50 – 11:50	63.2	dB(A)
11:50 – 12:50	67.8	dB(A)
12:50 – 13:50	61.6	dB(A)
13:50 – 14:50	61.6	dB(A)
14:50 – 15:50	61.1	dB(A)
15:50 – 16:50	61.2	dB(A)
16:50 – 17:50	61.1	dB(A)
17:50 – 18:50	63.6	dB(A)
18:50 – 19:50	63.8	dB(A)
19:50 – 20:50	60.9	dB(A)
20:50 – 21:50	58.7	dB(A)
21:50 – 22:50	58.1	dB(A)
22:50 – 23:50	57.3	dB(A)
23:50 – 00:50	56.9	dB(A)
00:50 – 01:50	57.3	dB(A)
01:50 – 02:50	56.9	dB(A)
02:50 – 03:50	57.1	dB(A)
03:50 – 04:50	58.8	dB(A)
04:50 – 05:50	63.4	dB(A)
05:50 – 06:50	66.7	dB(A)
06:50 – 07:50	65.6	dB(A)
07:50 – 08:50	62.2	dB(A)
L <sub>eq</sub> 24 hr.	62.2	dB(A)
L <sub>dn#</sub>	67.6	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.F. 2548 (2005)

<sup>1/3</sup> Start Time

\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Ms. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsoon)



Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด  
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 13353
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 15-16/06/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 17/06/2022
SAMPLE POINT	: ริมรั้วด้านทิศตะวันตก	REPORTED DATE	: 22/06/2022
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 24 hr. & L <sub>dn#</sub>		
DETERMINATION METHOD	: ISO 1996-1:2016		
INSTRUMENT	: Integrated Sound Level Meter S/N 01147298 : Type 2		

TIME \ DATE	15-16/06/2022 (L <sub>eq</sub> )	UNIT
09:30 – 10:30 <sup>1)</sup>	60.8	dB(A)
10:30 – 11:30	60.7	dB(A)
11:30 – 12:30	61.1	dB(A)
12:30 – 13:30	67.6	dB(A)
13:30 – 14:30	66.2	dB(A)
14:30 – 15:30	60.7	dB(A)
15:30 – 16:30	60.4	dB(A)
16:30 – 17:30	60.3	dB(A)
17:30 – 18:30	60.5	dB(A)
18:30 – 19:30	62.9	dB(A)
19:30 – 20:30	62.9	dB(A)
20:30 – 21:30	60.2	dB(A)
21:30 – 22:30	59.3	dB(A)
22:30 – 23:30	57.7	dB(A)
23:30 – 00:30	57.2	dB(A)
00:30 – 01:30	56.3	dB(A)
01:30 – 02:30	56.6	dB(A)
02:30 – 03:30	57.1	dB(A)
03:30 – 04:30	56.7	dB(A)
04:30 – 05:30	60.1	dB(A)
05:30 – 06:30	61.5	dB(A)
06:30 – 07:30	65.1	dB(A)
07:30 – 08:30	63.1	dB(A)
08:30 – 09:30	62.9	dB(A)
L <sub>eq</sub> 24 hr.	61.8	dB(A)
L <sub>dn#</sub>	66.8	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	dB(A)

**REMARK :** <sup>1)</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

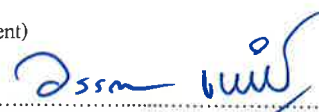
<sup>3)</sup> Start Time

\* Parameter Outside The Scope of The Registration of the Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsopon)



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Approved By

  
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: Melting	SAMPLE NO.	: 01207
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 20-21/01/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 21/01/2022
	: Based on ISO 11202:2010	REPORTED DATE	: 25/01/2022
INSTRUMENT	: Integrated Sound Level Meter S/N G301607 : Type 2		

TIME \ DATE	20-21/01/2022 (L <sub>eq</sub> )	UNIT
09:20 – 10:20 <sup>1</sup>	76.8	dB(A)
10:20 – 11:20	77.0	dB(A)
11:20 – 12:20	75.9	dB(A)
12:20 – 13:20	75.4	dB(A)
13:20 – 14:20	77.0	dB(A)
14:20 – 15:20	78.7	dB(A)
15:20 – 16:20	77.5	dB(A)
16:20 – 17:20	76.1	dB(A)
17:20 – 18:20	75.9	dB(A)
18:20 – 19:20	75.8	dB(A)
19:20 – 20:20	75.8	dB(A)
20:20 – 21:20	77.2	dB(A)
21:20 – 22:20	78.3	dB(A)
22:20 – 23:20	78.2	dB(A)
23:20 – 00:20	77.4	dB(A)
00:20 – 01:20	76.8	dB(A)
01:20 – 02:20	77.3	dB(A)
02:20 – 03:20	77.6	dB(A)
03:20 – 04:20	76.2	dB(A)
04:20 – 05:20	77.1	dB(A)
05:20 – 06:20	76.2	dB(A)
06:20 – 07:20	76.0	dB(A)
07:20 – 08:20	76.6	dB(A)
08:20 – 09:20	76.2	dB(A)
L <sub>eq</sub> 24 hr.	76.9	dB(A)
L <sub>eq</sub> 8 hr. <sup>1,11</sup>	09:20 – 17:20 น. = 76    17:20 – 01:20 น. = 77    01:20 – 09:20 น. = 76	dB(A)
L <sub>eq</sub> 8 hr. <sup>11,12</sup>	09:20 – 17:20 น. = 76    17:20 – 01:20 น. = 76    01:20 – 09:20 น. = 76	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>11</sup> , 90 <sup>12</sup>	dB(A)

**REMARK :**

- <sup>11</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>12</sup> Notification of The Ministry of Industry B.E. 2546 (2003) <sup>13</sup> Start Time  
<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate  
<sup>##</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate  
<sup>\*</sup> Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
 (Ms. Thanatpon Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Wattana Khotla)

Approved By.....  
 (MRS. WANPEN LHAOCHINDAWAT)

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25/01/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: Melting	SAMPLE NO.	: 02078
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	MEASURING DATE	: 09-10/02/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/02/2022
	: Based on ISO 11202:2010	REPORTED DATE	: 15/02/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00443357 : Type 2		

TIME \ DATE	09-10/02/2022 ( $L_{eq}$ )	UNIT
09:15 – 10:15 <sup>1)</sup>	81.7	dB(A)
10:15 – 11:15	82.1	dB(A)
11:15 – 12:15	83.4	dB(A)
12:15 – 13:15	81.3	dB(A)
13:15 – 14:15	82.4	dB(A)
14:15 – 15:15	84.0	dB(A)
15:15 – 16:15	82.1	dB(A)
16:15 – 17:15	81.7	dB(A)
17:15 – 18:15	83.9	dB(A)
18:15 – 19:15	82.3	dB(A)
19:15 – 20:15	80.5	dB(A)
20:15 – 21:15	80.7	dB(A)
21:15 – 22:15	83.9	dB(A)
22:15 – 23:15	81.1	dB(A)
23:15 – 00:15	81.5	dB(A)
00:15 – 01:15	82.7	dB(A)
01:15 – 02:15	85.1	dB(A)
02:15 – 03:15	86.5	dB(A)
03:15 – 04:15	81.6	dB(A)
04:15 – 05:15	84.1	dB(A)
05:15 – 06:15	83.0	dB(A)
06:15 – 07:15	83.1	dB(A)
07:15 – 08:15	83.6	dB(A)
08:15 – 09:15	81.3	dB(A)
$L_{eq}$ 24 hr.	82.9	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1), 12)</sup>	09:15 – 17:15 น. = 82      17:15 – 01:15 น. = 82      01:15 – 09:15 น. = 83	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1), 12)</sup>	09:15 – 17:15 น. = 82      17:15 – 01:15 น. = 82      01:15 – 09:15 น. = 83	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>1)</sup> , 90 <sup>2)</sup>	dB(A)

**REMARK :**

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

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

<sup>12)</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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 Kulsopad is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mrs. Wanpen Lhaochindawat)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

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15/02/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskula
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: Melting	SAMPLE NO.	: 03315
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 08-09/03/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/03/2022
	Based on ISO 11202:2010	REPORTED DATE	: 16/03/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 01209916 : Type 2		

TIME \ DATE	08-09/03/2022 (L <sub>eq</sub> )	UNIT
09:05 – 10:05 <sup>1/3</sup>	83.1	dB(A)
10:05 – 11:05	78.5	dB(A)
11:05 – 12:05	80.3	dB(A)
12:05 – 13:05	81.9	dB(A)
13:05 – 14:05	81.7	dB(A)
14:05 – 15:05	80.0	dB(A)
15:05 – 16:05	82.9	dB(A)
16:05 – 17:05	78.3	dB(A)
17:05 – 18:05	79.1	dB(A)
18:05 – 19:05	81.7	dB(A)
19:05 – 20:05	80.9	dB(A)
20:05 – 21:05	80.3	dB(A)
21:05 – 22:05	79.0	dB(A)
22:05 – 23:05	81.3	dB(A)
23:05 – 00:05	80.8	dB(A)
00:05 – 01:05	79.0	dB(A)
01:05 – 02:05	82.0	dB(A)
02:05 – 03:05	82.7	dB(A)
03:05 – 04:05	78.6	dB(A)
04:05 – 05:05	80.5	dB(A)
05:05 – 06:05	80.7	dB(A)
06:05 – 07:05	80.3	dB(A)
07:05 – 08:05	78.9	dB(A)
08:05 – 09:05	78.6	dB(A)
L <sub>eq</sub> 24 hr.	80.7	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	09:05 – 17:05 น. = 81      17:05 – 01:05 น. = 80      01:05 – 09:05 น. = 80	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1, 1/2</sup>	09:05 – 17:05 น. = 81      17:05 – 01:05 น. = 80      01:05 – 09:05 น. = 80	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

# 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 Khasaporn is Technical Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Thanatporn Khasaporn)



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Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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**COPY**

**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. SAMPLE NO. : 05196  
SAMPLE POINT : Melting MEASURING DATE : 05-06/04/2022  
PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 8 hr. & L<sub>eq</sub> 24 hr. RECEIVED DATE : 07/04/2022  
DETERMINATION METHOD : ISO 11202:2010 REPORTED DATE : 20/04/2022  
INSTRUMENT : Integrated Sound Level Meter S/N NSMAC623690374 : Type 2

TIME \ DATE	05-06/04/2022	UNIT
	(L <sub>eq</sub> )	
09:00 – 10:00 <sup>1)</sup>	81.6	dB(A)
10:00 – 11:00	82.1	dB(A)
11:00 – 12:00	81.4	dB(A)
12:00 – 13:00	81.2	dB(A)
13:00 – 14:00	81.5	dB(A)
14:00 – 15:00	81.7	dB(A)
15:00 – 16:00	81.0	dB(A)
16:00 – 17:00	81.1	dB(A)
17:00 – 18:00	82.1	dB(A)
18:00 – 19:00	81.9	dB(A)
19:00 – 20:00	80.7	dB(A)
20:00 – 21:00	81.2	dB(A)
21:00 – 22:00	82.1	dB(A)
22:00 – 23:00	81.5	dB(A)
23:00 – 00:00	81.0	dB(A)
00:00 – 01:00	81.8	dB(A)
01:00 – 02:00	81.8	dB(A)
02:00 – 03:00	81.1	dB(A)
03:00 – 04:00	81.8	dB(A)
04:00 – 05:00	81.6	dB(A)
05:00 – 06:00	81.4	dB(A)
06:00 – 07:00	81.7	dB(A)
07:00 – 08:00	81.7	dB(A)
08:00 – 09:00	81.8	dB(A)
L <sub>eq</sub> 24 hr.	81.5	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1)</sup>	09:00 – 17:00 M. = 81    17:00 – 01:00 M. = 81    01:00 – 09:00 M. = 81	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>2)</sup>	09:00 – 17:00 M. = 81    17:00 – 01:00 M. = 81    01:00 – 09:00 M. = 81	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1)</sup> , 90 <sup>2)</sup>	dB(A)

**REMARK :**

- <sup>1)</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>2)</sup> Notification of The Ministry of Industry B.E. 2546 (2003) <sup>3)</sup> Start Time  
\* Based on Criteria 85 dB(A); 3 dB Exchange Rate  
\*\* Based on Criteria 90 dB(A); 3 dB Exchange Rate  
\* Parameter not having a sense Measurement of Department of Labour Protection and Welfare  
(Measurement By M. Chonburi Chonburi)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)  
20/04/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: Melting		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 09285
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 11-12/05/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 13/05/2022
	S/N 00443358 : Type 2	REPORTED DATE	: 31/05/2022

TIME \ DATE	11-12/05/2022 (L <sub>eq</sub> )	UNIT
09:15 – 10:15 <sup>1/3</sup>	83.7	dB(A)
10:15 – 11:15	80.8	dB(A)
11:15 – 12:15	82.4	dB(A)
12:15 – 13:15	81.1	dB(A)
13:15 – 14:15	82.1	dB(A)
14:15 – 15:15	81.1	dB(A)
15:15 – 16:15	82.1	dB(A)
16:15 – 17:15	82.8	dB(A)
17:15 – 18:15	83.2	dB(A)
18:15 – 19:15	82.2	dB(A)
19:15 – 20:15	80.8	dB(A)
20:15 – 21:15	81.3	dB(A)
21:15 – 22:15	89.6	dB(A)
22:15 – 23:15	89.6	dB(A)
23:15 – 00:15	80.2	dB(A)
00:15 – 01:15	88.9	dB(A)
01:15 – 02:15	82.5	dB(A)
02:15 – 03:15	80.5	dB(A)
03:15 – 04:15	81.3	dB(A)
04:15 – 05:15	84.1	dB(A)
05:15 – 06:15	80.7	dB(A)
06:15 – 07:15	80.2	dB(A)
07:15 – 08:15	83.6	dB(A)
08:15 – 09:15	81.3	dB(A)
L <sub>eq</sub> 24 hr.	83.9	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	09:15 – 17:15 น. = 82      17:15 – 01:15 น. = 86      01:15 – 09:15 น. = 81	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	09:15 – 17:15 น. = 82      17:15 – 01:15 น. = 85      01:15 – 09:15 น. = 81	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

## Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter have been Registered in Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanaporn Lhaochindawat is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By: Ms. Thanaporn Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

13/05/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: Melting		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 13350
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 14-15/06/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 17/06/2022
	S/N 01147299 : Type 2	REPORTED DATE	: 22/06/2022

TIME \ DATE	14-15/06/2022 (L <sub>eq</sub> )	UNIT
08:45 – 09:45 <sup>1/3</sup>	85.8	dB(A)
09:45 – 10:45	86.0	dB(A)
10:45 – 11:45	84.7	dB(A)
11:45 – 12:45	84.8	dB(A)
12:45 – 13:45	84.6	dB(A)
13:45 – 14:45	84.8	dB(A)
14:45 – 15:45	82.9	dB(A)
15:45 – 16:45	82.7	dB(A)
16:45 – 17:45	84.0	dB(A)
17:45 – 18:45	83.3	dB(A)
18:45 – 19:45	81.9	dB(A)
19:45 – 20:45	82.1	dB(A)
20:45 – 21:45	83.2	dB(A)
21:45 – 22:45	82.7	dB(A)
22:45 – 23:45	82.0	dB(A)
23:45 – 00:45	82.4	dB(A)
00:45 – 01:45	82.6	dB(A)
01:45 – 02:45	82.7	dB(A)
02:45 – 03:45	82.6	dB(A)
03:45 – 04:45	82.7	dB(A)
04:45 – 05:45	81.5	dB(A)
05:45 – 06:45	82.0	dB(A)
06:45 – 07:45	82.4	dB(A)
07:45 – 08:45	82.1	dB(A)
L <sub>eq</sub> 24 hr.	83.4	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/3, 1/2</sup>	08:45 – 16:45 น. = 84      16:45 – 00:45 น. = 82      00:45 – 08:45 น. = 82	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/3, 1/2</sup>	08:45 – 16:45 น. = 84      16:45 – 00:45 น. = 82      00:45 – 08:45 น. = 82	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

# 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 Kinsaporn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanaporn Kinsaporn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: Casting	SAMPLE NO.	: 01206
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 20-21/01/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 21/01/2022
	Based on ISO 11202:2010	REPORTED DATE	: 25/01/2022
INSTRUMENT	: Integrated Sound Level Meter S/N G301013 : Type 2		

TIME \ DATE	20-21/01/2022 (L <sub>eq</sub> )	UNIT
09:25 – 10:25 <sup>13</sup>	78.0	dB(A)
10:25 – 11:25	78.0	dB(A)
11:25 – 12:25	77.9	dB(A)
12:25 – 13:25	77.5	dB(A)
13:25 – 14:25	78.3	dB(A)
14:25 – 15:25	80.4	dB(A)
15:25 – 16:25	78.4	dB(A)
16:25 – 17:25	77.8	dB(A)
17:25 – 18:25	77.4	dB(A)
18:25 – 19:25	77.3	dB(A)
19:25 – 20:25	77.3	dB(A)
20:25 – 21:25	78.6	dB(A)
21:25 – 22:25	79.3	dB(A)
22:25 – 23:25	79.2	dB(A)
23:25 – 00:25	78.2	dB(A)
00:25 – 01:25	77.8	dB(A)
01:25 – 02:25	78.1	dB(A)
02:25 – 03:25	79.6	dB(A)
03:25 – 04:25	78.0	dB(A)
04:25 – 05:25	78.2	dB(A)
05:25 – 06:25	77.7	dB(A)
06:25 – 07:25	77.7	dB(A)
07:25 – 08:25	78.0	dB(A)
08:25 – 09:25	77.8	dB(A)
L <sub>eq</sub> 24 hr.	78.3	dB(A)
L <sub>eq</sub> 8 hr. <sup>11, 12</sup>	09:25 – 17:25 น. = 78    17:25 – 01:25 น. = 78    01:25 – 09:25 น. = 78	dB(A)
L <sub>eq</sub> 8 hr. <sup>11, 12</sup>	09:25 – 17:25 น. = 78    17:25 – 01:25 น. = 78    01:25 – 09:25 น. = 78	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>11</sup> , 90 <sup>12</sup>	dB(A)

**REMARK :**

<sup>11</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

<sup>12</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>13</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanaporn Khinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Wattana Khotib)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskula
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: Casting	SAMPLE NO.	: 02077
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	MEASURING DATE	: 09-10/02/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/02/2022
	Based on ISO 11202:2010	REPORTED DATE	: 15/02/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 01209912 : Type 2		

TIME \ DATE	09-10/02/2022 ( $L_{eq}$ )			UNIT
09:20 – 10:20 <sup>1</sup>	83.3			dB(A)
10:20 – 11:20	83.9			dB(A)
11:20 – 12:20	82.8			dB(A)
12:20 – 13:20	82.3			dB(A)
13:20 – 14:20	83.5			dB(A)
14:20 – 15:20	83.8			dB(A)
15:20 – 16:20	82.5			dB(A)
16:20 – 17:20	82.5			dB(A)
17:20 – 18:20	83.8			dB(A)
18:20 – 19:20	83.1			dB(A)
19:20 – 20:20	81.4			dB(A)
20:20 – 21:20	81.6			dB(A)
21:20 – 22:20	84.6			dB(A)
22:20 – 23:20	81.9			dB(A)
23:20 – 00:20	82.3			dB(A)
00:20 – 01:20	84.3			dB(A)
01:20 – 02:20	84.8			dB(A)
02:20 – 03:20	83.7			dB(A)
03:20 – 04:20	83.6			dB(A)
04:20 – 05:20	84.5			dB(A)
05:20 – 06:20	82.3			dB(A)
06:20 – 07:20	83.1			dB(A)
07:20 – 08:20	84.3			dB(A)
08:20 – 09:20	82.0			dB(A)
$L_{eq}$ 24 hr.	83.3			dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1,2</sup>	09:20 – 17:20 น. = 83	17:20 – 01:20 น. = 83	01:20 – 09:20 น. = 83	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1,2</sup>	09:20 – 17:20 น. = 83	17:20 – 01:20 น. = 82	01:20 – 09:20 น. = 83	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>1</sup> , 90 <sup>2</sup>			dB(A)

**REMARK :**

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

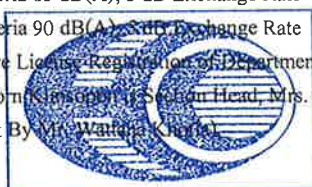
<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1</sup> Start Time

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

## Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanatponn Somsopit, Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Wanchai Chaiyapong)



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Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: Casting	SAMPLE NO.	: 03316
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 08-09/03/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/03/2022
	Based on ISO 11202:2010	REPORTED DATE	: 16/03/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00209079 : Type 2		

TIME \ DATE	08-09/03/2022	UNIT
	(L <sub>eq</sub> )	
09:10 – 10:10 <sup>13</sup>	80.8	dB(A)
10:10 – 11:10	85.3	dB(A)
11:10 – 12:10	81.3	dB(A)
12:10 – 13:10	79.4	dB(A)
13:10 – 14:10	81.4	dB(A)
14:10 – 15:10	80.2	dB(A)
15:10 – 16:10	80.3	dB(A)
16:10 – 17:10	80.9	dB(A)
17:10 – 18:10	78.1	dB(A)
18:10 – 19:10	81.1	dB(A)
19:10 – 20:10	78.5	dB(A)
20:10 – 21:10	78.1	dB(A)
21:10 – 22:10	79.1	dB(A)
22:10 – 23:10	80.4	dB(A)
23:10 – 00:10	82.5	dB(A)
00:10 – 01:10	79.4	dB(A)
01:10 – 02:10	79.9	dB(A)
02:10 – 03:10	82.7	dB(A)
03:10 – 04:10	78.3	dB(A)
04:10 – 05:10	78.8	dB(A)
05:10 – 06:10	80.1	dB(A)
06:10 – 07:10	81.7	dB(A)
07:10 – 08:10	78.8	dB(A)
08:10 – 09:10	81.2	dB(A)
L <sub>eq</sub> 24 hr.	80.7	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>#,11</sup>	09:10 – 17:10 น. = 81      17:10 – 01:10 น. = 79      01:10 – 09:10 น. = 80	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>##,12</sup>	09:10 – 17:10 น. = 81      17:10 – 01:10 น. = 79      01:10 – 09:10 น. = 80	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>11</sup> , 90 <sup>12</sup>	dB(A)

**REMARK :**

<sup>11</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

<sup>12</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>13</sup> Start Time

# 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 Khasanont Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Khasanont)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

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16/03/2022

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**TEST REPORT**

CUSTOMER	⌘ Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	⌘ 05195
ADDRESS	⌘ 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	⌘ 05-06/04/2022
SAMPLE SOURCE	⌘ Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	⌘ 07/04/2022
SAMPLE POINT	⌘ Casting	REPORTED DATE	⌘ 20/04/2022
PARAMETER*	⌘ L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.		
DETERMINATION METHOD	⌘ ISO 11202:2010		
INSTRUMENT	⌘ Integrated Sound Level Meter S/N 01209917 : Type 2		

TIME \ DATE	05-06/04/2022			UNIT
	(L <sub>eq</sub> )			
09:00 – 10:00 <sup>1/3</sup>	84.2			dB(A)
10:00 – 11:00	83.6			dB(A)
11:00 – 12:00	82.6			dB(A)
12:00 – 13:00	82.7			dB(A)
13:00 – 14:00	83.9			dB(A)
14:00 – 15:00	82.4			dB(A)
15:00 – 16:00	83.4			dB(A)
16:00 – 17:00	83.8			dB(A)
17:00 – 18:00	82.9			dB(A)
18:00 – 19:00	83.5			dB(A)
19:00 – 20:00	83.5			dB(A)
20:00 – 21:00	83.5			dB(A)
21:00 – 22:00	84.6			dB(A)
22:00 – 23:00	83.0			dB(A)
23:00 – 00:00	82.6			dB(A)
00:00 – 01:00	84.7			dB(A)
01:00 – 02:00	83.9			dB(A)
02:00 – 03:00	82.8			dB(A)
03:00 – 04:00	84.6			dB(A)
04:00 – 05:00	83.5			dB(A)
05:00 – 06:00	83.6			dB(A)
06:00 – 07:00	83.7			dB(A)
07:00 – 08:00	84.0			dB(A)
08:00 – 09:00	82.4			dB(A)
L <sub>eq</sub> 24 hr.	83.5			dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	09:00 – 17:00 น. = 83	17:00 – 01:00 น. = 83	01:00 – 09:00 น. = 83	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	09:00 – 17:00 น. = 83	17:00 – 01:00 น. = 83	01:00 – 09:00 น. = 83	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>2/2</sup>			dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

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

\* Parameter have been registered at Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanatporn Srisornvong is Supervisor, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By : Thanatporn Srisornvong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: Casting		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 09287
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 12-13/05/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 13/05/2022
	S/N 090087 : Type 2	REPORTED DATE	: 31/05/2022

TIME \ DATE	12-13/05/2022	UNIT
	(L <sub>eq</sub> )	
08:45 – 09:45 <sup>1)</sup>	80.8	dB(A)
09:45 – 10:45	85.3	dB(A)
10:45 – 11:45	81.3	dB(A)
11:45 – 12:45	79.4	dB(A)
12:45 – 13:45	81.4	dB(A)
13:45 – 14:45	80.2	dB(A)
14:45 – 15:45	80.3	dB(A)
15:45 – 16:45	80.9	dB(A)
16:45 – 17:45	78.1	dB(A)
17:45 – 18:45	81.1	dB(A)
18:45 – 19:45	78.5	dB(A)
19:45 – 20:45	78.1	dB(A)
20:45 – 21:45	84.6	dB(A)
21:45 – 22:45	81.9	dB(A)
22:45 – 23:45	82.3	dB(A)
23:45 – 00:45	84.3	dB(A)
00:45 – 01:45	84.8	dB(A)
01:45 – 02:45	83.7	dB(A)
02:45 – 03:45	83.6	dB(A)
03:45 – 04:45	84.5	dB(A)
04:45 – 05:45	82.3	dB(A)
05:45 – 06:45	83.1	dB(A)
06:45 – 07:45	84.3	dB(A)
07:45 – 08:45	82.0	dB(A)
L <sub>eq</sub> 24 hr.	82.4	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>#,1)</sup>	08:45 – 16:45 u. = 81    16:45 – 00:45 u. = 81    00:45 – 08:45 u. = 83	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>##,12)</sup>	08:45 – 16:45 u. = 81    16:45 – 00:45 u. = 81    00:45 – 08:45 u. = 83	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1)</sup> , 90 <sup>12)</sup>	dB(A)

**REMARK :**

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

<sup>12)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>13)</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter not have License Registration of Department of Labour Protection and Welfare

(Ms. Thanatpon Chaisriyodh, Production Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatpon Chaisriyodh)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

13/05/2022

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**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: Casting		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 13349
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 14-15/06/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 17/06/2022
	S/N 00646443 : Type 2	REPORTED DATE	: 22/06/2022

TIME \ DATE	14-15/06/2022	UNIT
	(L <sub>eq</sub> )	
08:50 – 09:50 <sup>1/3</sup>	84.4	dB(A)
09:50 – 10:50	84.8	dB(A)
10:50 – 11:50	84.6	dB(A)
11:50 – 12:50	83.5	dB(A)
12:50 – 13:50	83.8	dB(A)
13:50 – 14:50	84.1	dB(A)
14:50 – 15:50	83.3	dB(A)
15:50 – 16:50	82.2	dB(A)
16:50 – 17:50	83.0	dB(A)
17:50 – 18:50	82.5	dB(A)
18:50 – 19:50	81.8	dB(A)
19:50 – 20:50	82.2	dB(A)
20:50 – 21:50	83.9	dB(A)
21:50 – 22:50	83.5	dB(A)
22:50 – 23:50	82.6	dB(A)
23:50 – 00:50	83.1	dB(A)
00:50 – 01:50	83.2	dB(A)
01:50 – 02:50	82.9	dB(A)
02:50 – 03:50	83.3	dB(A)
03:50 – 04:50	83.4	dB(A)
04:50 – 05:50	82.4	dB(A)
05:50 – 06:50	82.8	dB(A)
06:50 – 07:50	83.6	dB(A)
07:50 – 08:50	82.7	dB(A)
L <sub>eq</sub> 24 hr.	83.3	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	08:50 – 16:50 u. = 83    16:50 – 00:50 u. = 82    00:50 – 08:50 u. = 83	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	08:50 – 16:50 u. = 83    16:50 – 00:50 u. = 82    00:50 – 08:50 u. = 83	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>2/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

## Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanaporn Khinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By: Ms. Thanaporn Khinsopon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01	SAMPLE NO.	: 01205
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 19-20/01/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 21/01/2022
	: Based on ISO 11202:2010	REPORTED DATE	: 25/01/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 01209914 : Type 2		

TIME \ DATE	19-20/01/2022 (L <sub>eq</sub> )			UNIT
09:20 - 10:20 <sup>1)</sup>	82.3			dB(A)
10:20 - 11:20	81.8			dB(A)
11:20 - 12:20	82.7			dB(A)
12:20 - 13:20	83.2			dB(A)
13:20 - 14:20	81.5			dB(A)
14:20 - 15:20	80.4			dB(A)
15:20 - 16:20	82.3			dB(A)
16:20 - 17:20	81.7			dB(A)
17:20 - 18:20	82.3			dB(A)
18:20 - 19:20	82.8			dB(A)
19:20 - 20:20	82.5			dB(A)
20:20 - 21:20	83.3			dB(A)
21:20 - 22:20	83.3			dB(A)
22:20 - 23:20	84.1			dB(A)
23:20 - 00:20	85.1			dB(A)
00:20 - 01:20	84.2			dB(A)
01:20 - 02:20	83.9			dB(A)
02:20 - 03:20	83.3			dB(A)
03:20 - 04:20	82.9			dB(A)
04:20 - 05:20	82.8			dB(A)
05:20 - 06:20	83.8			dB(A)
06:20 - 07:20	83.7			dB(A)
07:20 - 08:20	83.0			dB(A)
08:20 - 09:20	82.9			dB(A)
L <sub>eq</sub> 24 hr.	83.0			dB(A)
L <sub>eq</sub> 8 hr. <sup>1), 12</sup>	09:20 - 17:20 น. = 82	17:20 - 01:20 น. = 83	01:20 - 09:20 น. = 83	dB(A)
L <sub>eq</sub> 8 hr. <sup>1), 12</sup>	09:20 - 17:20 น. = 82	17:20 - 01:20 น. = 83	01:20 - 09:20 น. = 83	dB(A)
Standard L <sub>eq</sub> 8 hr. <sup>2</sup>	85 <sup>1)</sup> , 90 <sup>2)</sup>			dB(A)

**REMARK :**

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

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

<sup>3)</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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 Mr. Wattana Khotia)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE, SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01	SAMPLE NO.	: 02076
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 09-10/02/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/02/2022
	Based on ISO 11202:2010	REPORTED DATE	: 15/02/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 01209914 : Type 2		

TIME \ DATE	09-10/02/2022 (L <sub>eq</sub> )			UNIT
09:25 – 10:25 <sup>1)</sup>	83.2			dB(A)
10:25 – 11:25	82.8			dB(A)
11:25 – 12:25	81.8			dB(A)
12:25 – 13:25	83.0			dB(A)
13:25 – 14:25	82.8			dB(A)
14:25 – 15:25	82.9			dB(A)
15:25 – 16:25	82.4			dB(A)
16:25 – 17:25	80.6			dB(A)
17:25 – 18:25	81.9			dB(A)
18:25 – 19:25	81.6			dB(A)
19:25 – 20:25	80.4			dB(A)
20:25 – 21:25	82.0			dB(A)
21:25 – 22:25	82.1			dB(A)
22:25 – 23:25	81.1			dB(A)
23:25 – 00:25	80.8			dB(A)
00:25 – 01:25	79.9			dB(A)
01:25 – 02:25	80.8			dB(A)
02:25 – 03:25	81.7			dB(A)
03:25 – 04:25	80.9			dB(A)
04:25 – 05:25	80.5			dB(A)
05:25 – 06:25	80.8			dB(A)
06:25 – 07:25	80.9			dB(A)
07:25 – 08:25	80.6			dB(A)
08:25 – 09:25	81.6			dB(A)
L <sub>eq</sub> 24 hr.	81.6			dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1),1)</sup>	09:25 – 17:25 น. = 82	17:25 – 01:25 น. = 81	01:25 – 09:25 น. = 80	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1),1)</sup>	09:25 – 17:25 น. = 82	17:25 – 01:25 น. = 81	01:25 – 09:25 น. = 80	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1)</sup> , 90 <sup>2)</sup>			dB(A)

**REMARK :**

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

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

<sup>3)</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 90 dB(A); 3 dB Exchange Rate

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

(Ms. Thanatporn Chonchaisri, Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Chonchaisri)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

15/02/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskula
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01	SAMPLE NO.	: 03317
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 09-10/03/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 10/03/2022
	: Based on ISO 11202:2010	REPORTED DATE	: 16/03/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00209079 : Type 2		

TIME \ DATE	09-10/03/2022 (L <sub>eq</sub> )			UNIT
09:25 – 10:25 <sup>1/3</sup>				dB(A)
10:25 – 11:25				dB(A)
11:25 – 12:25				dB(A)
12:25 – 13:25				dB(A)
13:25 – 14:25				dB(A)
14:25 – 15:25				dB(A)
15:25 – 16:25				dB(A)
16:25 – 17:25				dB(A)
17:25 – 18:25				dB(A)
18:25 – 19:25				dB(A)
19:25 – 20:25				dB(A)
20:25 – 21:25				dB(A)
21:25 – 22:25				dB(A)
22:25 – 23:25				dB(A)
23:25 – 00:25				dB(A)
00:25 – 01:25				dB(A)
01:25 – 02:25				dB(A)
02:25 – 03:25				dB(A)
03:25 – 04:25				dB(A)
04:25 – 05:25				dB(A)
05:25 – 06:25				dB(A)
06:25 – 07:25				dB(A)
07:25 – 08:25				dB(A)
08:25 – 09:25				dB(A)
L <sub>eq</sub> 24 hr.				dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>#,1/1</sup>	09:25 – 17:25 น. = 80	17:25 – 01:25 น. = 81	01:25 – 09:25 น. = 81	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>##,1/2</sup>	09:25 – 17:25 น. = 80	17:25 – 01:25 น. = 81	01:25 – 09:25 น. = 81	dB(A)
Standard L <sub>eq</sub> 8 hr.		85 <sup>1/1</sup> , 90 <sup>2</sup>		dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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. Thanatpon Kongsorn & Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatpon Kongsorn)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 10558
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 26-27/05/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 28/05/2022
	S/N 090090 : Type 2	REPORTED DATE	: 21/06/2022

TIME \ DATE	26-27/05/2022 (L <sub>eq</sub> )	UNIT
09:00 – 10:00 <sup>1/3</sup>	81.5	dB(A)
10:00 – 11:00	82.1	dB(A)
11:00 – 12:00	83.1	dB(A)
12:00 – 13:00	83.1	dB(A)
13:00 – 14:00	83.6	dB(A)
14:00 – 15:00	83.8	dB(A)
15:00 – 16:00	82.5	dB(A)
16:00 – 17:00	83.3	dB(A)
17:00 – 18:00	83.5	dB(A)
18:00 – 19:00	81.8	dB(A)
19:00 – 20:00	82.9	dB(A)
20:00 – 21:00	83.0	dB(A)
21:00 – 22:00	82.6	dB(A)
22:00 – 23:00	82.8	dB(A)
23:00 – 00:00	83.8	dB(A)
00:00 – 01:00	84.0	dB(A)
01:00 – 02:00	83.4	dB(A)
02:00 – 03:00	82.4	dB(A)
03:00 – 04:00	81.2	dB(A)
04:00 – 05:00	82.7	dB(A)
05:00 – 06:00	82.4	dB(A)
06:00 – 07:00	82.1	dB(A)
07:00 – 08:00	83.3	dB(A)
08:00 – 09:00	83.4	dB(A)
L <sub>eq</sub> 24 hr.	82.9	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	09:00 – 17:00 n. = 82    17:00 – 01:00 n. = 83    01:00 – 09:00 n. = 82	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	09:00 – 17:00 n. = 82    17:00 – 01:00 n. = 83    01:00 – 09:00 n. = 82	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 90 dB(A); 3 dB Exchange Rate

<sup>\*</sup> Parameter not have License Registration of Department of Labour Protection and Welfare

(Ms. Thanatpon Kinsaporn Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

21/06/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskula
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01		
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	SAMPLE NO.	: 09286
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 12-13/05/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 13/05/2022
	S/N 090086 : Type 2	REPORTED DATE	: 31/05/2022

TIME \ DATE	12-13/05/2022	UNIT
	( $L_{eq}$ )	
08:50 – 09:50 <sup>3</sup>	78.3	dB(A)
09:50 – 10:50	78.1	dB(A)
10:50 – 11:50	76.3	dB(A)
11:50 – 12:50	78.0	dB(A)
12:50 – 13:50	75.8	dB(A)
13:50 – 14:50	76.3	dB(A)
14:50 – 15:50	77.7	dB(A)
15:50 – 16:50	75.0	dB(A)
16:50 – 17:50	75.6	dB(A)
17:50 – 18:50	78.1	dB(A)
18:50 – 19:50	76.0	dB(A)
19:50 – 20:50	81.0	dB(A)
20:50 – 21:50	82.0	dB(A)
21:50 – 22:50	82.2	dB(A)
22:50 – 23:50	82.7	dB(A)
23:50 – 00:50	82.0	dB(A)
00:50 – 01:50	80.8	dB(A)
01:50 – 02:50	81.3	dB(A)
02:50 – 03:50	82.2	dB(A)
03:50 – 04:50	80.9	dB(A)
04:50 – 05:50	81.0	dB(A)
05:50 – 06:50	82.7	dB(A)
06:50 – 07:50	81.8	dB(A)
07:50 – 08:50	81.7	dB(A)
$L_{eq}$ 24 hr.	80.2	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>#,1</sup>	08:50 – 16:50 $L_{eq}$ = 77    16:50 – 00:50 $L_{eq}$ = 80    00:50 – 08:50 $L_{eq}$ = 81	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>##,12</sup>	08:50 – 16:50 $L_{eq}$ = 77    16:50 – 00:50 $L_{eq}$ = 80    00:50 – 08:50 $L_{eq}$ = 81	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>11</sup> , 90 <sup>12</sup>	dB(A)

**REMARK :**

<sup>11</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

<sup>12</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>13</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter not have License Registration in Department of Labour Protection and Welfare

(Ms. Thanatporn Kongsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatporn Kongsopon)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

13/05/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: RM01		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 13348
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 14-15/06/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 17/06/2022
	S/N 01147298 : Type 2	REPORTED DATE	: 22/06/2022

TIME \ DATE	14-15/06/2022	UNIT
	(L) eq	
08:55 – 09:55 <sup>1/3</sup>	82.8	dB(A)
09:55 – 10:55	82.8	dB(A)
10:55 – 11:55	83.4	dB(A)
11:55 – 12:55	83.9	dB(A)
12:55 – 13:55	82.6	dB(A)
13:55 – 14:55	83.1	dB(A)
14:55 – 15:55	83.8	dB(A)
15:55 – 16:55	83.6	dB(A)
16:55 – 17:55	83.9	dB(A)
17:55 – 18:55	83.6	dB(A)
18:55 – 19:55	82.9	dB(A)
19:55 – 20:55	81.9	dB(A)
20:55 – 21:55	84.1	dB(A)
21:55 – 22:55	83.5	dB(A)
22:55 – 23:55	82.9	dB(A)
23:55 – 00:55	81.5	dB(A)
00:55 – 01:55	82.0	dB(A)
01:55 – 02:55	82.1	dB(A)
02:55 – 03:55	81.9	dB(A)
03:55 – 04:55	79.8	dB(A)
04:55 – 05:55	79.6	dB(A)
05:55 – 06:55	79.9	dB(A)
06:55 – 07:55	78.7	dB(A)
07:55 – 08:55	79.2	dB(A)
L <sub>eq</sub> 24 hr.	82.5	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	08:55 – 16:55 u. = 83    16:55 – 00:55 u. = 83    00:55 – 08:55 u. = 80	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1, 1/2</sup>	08:55 – 16:55 u. = 83    16:55 – 00:55 u. = 83    00:55 – 08:55 u. = 80	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>2/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

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

(Ms. Thanaporn Kimsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By: Ms. Thanaporn Kimsopon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: BK11	SAMPLE NO.	: 01204
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 19-20/01/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 21/01/2022
	Based on ISO 11202:2010	REPORTED DATE	: 25/01/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00443359 : Type 2		

TIME \ DATE	19-20/01/2022	UNIT
	(L <sub>eq</sub> )	
09:00 – 10:00 <sup>1/3</sup>	81.8	dB(A)
10:00 – 11:00	76.9	dB(A)
11:00 – 12:00	76.3	dB(A)
12:00 – 13:00	75.4	dB(A)
13:00 – 14:00	79.2	dB(A)
14:00 – 15:00	80.6	dB(A)
15:00 – 16:00	80.4	dB(A)
16:00 – 17:00	78.8	dB(A)
17:00 – 18:00	77.5	dB(A)
18:00 – 19:00	78.2	dB(A)
19:00 – 20:00	78.8	dB(A)
20:00 – 21:00	78.2	dB(A)
21:00 – 22:00	79.5	dB(A)
22:00 – 23:00	79.4	dB(A)
23:00 – 00:00	78.0	dB(A)
00:00 – 01:00	79.2	dB(A)
01:00 – 02:00	79.8	dB(A)
02:00 – 03:00	79.9	dB(A)
03:00 – 04:00	79.7	dB(A)
04:00 – 05:00	73.5	dB(A)
05:00 – 06:00	76.5	dB(A)
06:00 – 07:00	79.9	dB(A)
07:00 – 08:00	76.7	dB(A)
08:00 – 09:00	79.2	dB(A)
L <sub>eq</sub> 24 hr.	78.8	dB(A)
L <sub>eq</sub> 8 hr. <sup>1/1</sup>	09:00 – 17:00 น. = 79    17:00 – 01:00 น. = 78    01:00 – 09:00 น. = 78	dB(A)
L <sub>eq</sub> 8 hr. <sup>1/2</sup>	09:00 – 17:00 น. = 78    17:00 – 01:00 น. = 78    01:00 – 09:00 น. = 78	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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 Kinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Wattana Khotla)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

25/01/2022

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**COPY**

**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: BK11	SAMPLE NO.	: 02100
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 15-16/02/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 16/02/2022
	Based on ISO 11202:2010	REPORTED DATE	: 18/02/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00310455 : Type 2		

TIME \ DATE	15-16/02/2022 (L <sub>eq</sub> )			UNIT
08:35 – 09:35 <sup>/3</sup>	82.9			dB(A)
09:35 – 10:35	83.2			dB(A)
10:35 – 11:35	83.4			dB(A)
11:35 – 12:35	80.2			dB(A)
12:35 – 13:35	82.4			dB(A)
13:35 – 14:35	83.3			dB(A)
14:35 – 15:35	84.0			dB(A)
15:35 – 16:35	84.7			dB(A)
16:35 – 17:35	84.9			dB(A)
17:35 – 18:35	84.4			dB(A)
18:35 – 19:35	83.4			dB(A)
19:35 – 20:35	78.9			dB(A)
20:35 – 21:35	70.8			dB(A)
21:35 – 22:35	70.9			dB(A)
22:35 – 23:35	70.3			dB(A)
23:35 – 00:35	69.6			dB(A)
00:35 – 01:35	71.1			dB(A)
01:35 – 02:35	70.7			dB(A)
02:35 – 03:35	69.4			dB(A)
03:35 – 04:35	66.1			dB(A)
04:35 – 05:35	65.9			dB(A)
05:35 – 06:35	67.1			dB(A)
06:35 – 07:35	67.1			dB(A)
07:35 – 08:35	82.7			dB(A)
L <sub>eq</sub> 24 hr.	80.7			dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>#,1</sup>	08:35 – 16:35 น. = 83	16:35 – 00:35 น. = 80	00:35 – 08:35 น. = 74	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>##,12</sup>	08:35 – 16:35 น. = 83	16:35 – 00:35 น. = 79	00:35 – 08:35 น. = 72	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>/1</sup> , 90 <sup>/2</sup>			dB(A)

**REMARK :**

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

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

<sup>/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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 Kinsorn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Khula)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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**TEST REPORT**

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. SAMPLE NO. : 05199  
SAMPLE POINT : BK11 MEASURING DATE : 06-07/04/2022  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr. &  $L_{eq}$  24 hr. RECEIVED DATE : 07/04/2022  
DETERMINATION METHOD : ISO 11202:2010 REPORTED DATE : 20/04/2022  
INSTRUMENT : Integrated Sound Level Meter S/N 01147299 : Type 2

TIME \ DATE	06-07/04/2022 ( $L_{eq}$ )	UNIT
09:50 – 10:50 <sup>1/3</sup>	77.7	dB(A)
10:50 – 11:50	80.6	dB(A)
11:50 – 12:50	80.4	dB(A)
12:50 – 13:50	77.0	dB(A)
13:50 – 14:50	80.2	dB(A)
14:50 – 15:50	80.3	dB(A)
15:50 – 16:50	79.2	dB(A)
16:50 – 17:50	79.1	dB(A)
17:50 – 18:50	78.5	dB(A)
18:50 – 19:50	74.0	dB(A)
19:50 – 20:50	72.4	dB(A)
20:50 – 21:50	73.2	dB(A)
21:50 – 22:50	78.6	dB(A)
22:50 – 23:50	80.0	dB(A)
23:50 – 00:50	79.6	dB(A)
00:50 – 01:50	78.4	dB(A)
01:50 – 02:50	80.6	dB(A)
02:50 – 03:50	79.9	dB(A)
03:50 – 04:50	80.7	dB(A)
04:50 – 05:50	77.8	dB(A)
05:50 – 06:50	72.6	dB(A)
06:50 – 07:50	78.4	dB(A)
07:50 – 08:50	79.0	dB(A)
08:50 – 09:50	76.9	dB(A)
$L_{eq}$ 24 hr.	78.7	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1/1</sup>	09:50 – 17:50 $L_{eq}$ = 79    17:50 – 01:50 $L_{eq}$ = 77    01:50 – 09:50 $L_{eq}$ = 78	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1/1, 1/2</sup>	09:50 – 17:50 $L_{eq}$ = 79    17:50 – 01:50 $L_{eq}$ = 77    01:50 – 09:50 $L_{eq}$ = 78	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

## Based on Criteria 90 dB(A); 1 dB Exchange Rate

\* Parameter have License, Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanatporn Kinnaporn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Kinnaporn)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

20/04/2022

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## TEST REPORT

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05198
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 05-06/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: BK11	REPORTED DATE	: 20/04/2022
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.		
DETERMINATION METHOD	: ISO 11202:2010		
INSTRUMENT	: Integrated Sound Level Meter S/N 01147299 : Type 2		

TIME \ DATE	05-06/04/2022	UNIT
	( $L_{eq}$ )	
09:50 – 10:50 <sup>1/3</sup>	80.4	dB(A)
10:50 – 11:50	79.4	dB(A)
11:50 – 12:50	79.6	dB(A)
12:50 – 13:50	80.7	dB(A)
13:50 – 14:50	81.5	dB(A)
14:50 – 15:50	80.9	dB(A)
15:50 – 16:50	81.5	dB(A)
16:50 – 17:50	80.2	dB(A)
17:50 – 18:50	80.4	dB(A)
18:50 – 19:50	79.0	dB(A)
19:50 – 20:50	80.0	dB(A)
20:50 – 21:50	81.6	dB(A)
21:50 – 22:50	81.6	dB(A)
22:50 – 23:50	81.1	dB(A)
23:50 – 00:50	81.8	dB(A)
00:50 – 01:50	81.6	dB(A)
01:50 – 02:50	81.4	dB(A)
02:50 – 03:50	79.9	dB(A)
03:50 – 04:50	72.8	dB(A)
04:50 – 05:50	77.5	dB(A)
05:50 – 06:50	78.1	dB(A)
06:50 – 07:50	76.5	dB(A)
07:50 – 08:50	79.4	dB(A)
08:50 – 09:50	77.5	dB(A)
$L_{eq}$ 24 hr.	80.1	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1/1</sup>	09:50 – 17:50 $L_{eq}$ = 80      17:50 – 01:50 $L_{eq}$ = 80      01:50 – 09:50 $L_{eq}$ = 78	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>1/2</sup>	09:50 – 17:50 $L_{eq}$ = 80      17:50 – 01:50 $L_{eq}$ = 80      01:50 – 09:50 $L_{eq}$ = 78	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

### REMARK :

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

## Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter have been inspected by Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Ms. Thanaporn Kongsakul is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement by Ms. Jirathana Klinsophon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: BK11		
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	SAMPLE NO.	: 09284
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 11-12/05/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 13/05/2022
	S/N 00443357 : Type 2	REPORTED DATE	: 31/05/2022

TIME \ DATE	11-12/05/2022 (L <sub>eq</sub> )	UNIT
09:30 – 10:30 <sup>1/3</sup>	81.7	dB(A)
10:30 – 11:30	78.7	dB(A)
11:30 – 12:30	79.0	dB(A)
12:30 – 13:30	80.9	dB(A)
13:30 – 14:30	80.4	dB(A)
14:30 – 15:30	80.9	dB(A)
15:30 – 16:30	80.3	dB(A)
16:30 – 17:30	78.7	dB(A)
17:30 – 18:30	79.0	dB(A)
18:30 – 19:30	78.0	dB(A)
19:30 – 20:30	74.1	dB(A)
20:30 – 21:30	74.8	dB(A)
21:30 – 22:30	75.0	dB(A)
22:30 – 23:30	74.5	dB(A)
23:30 – 00:30	74.5	dB(A)
00:30 – 01:30	74.4	dB(A)
01:30 – 02:30	74.4	dB(A)
02:30 – 03:30	74.2	dB(A)
03:30 – 04:30	71.8	dB(A)
04:30 – 05:30	72.1	dB(A)
05:30 – 06:30	73.9	dB(A)
06:30 – 07:30	73.3	dB(A)
07:30 – 08:30	79.2	dB(A)
08:30 – 09:30	78.8	dB(A)
L <sub>eq</sub> 24 hr.	77.8	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	09:30 – 17:30 น. = 80    17:30 – 01:30 น. = 75    01:30 – 09:30 น. = 75	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	09:30 – 17:30 น. = 80    17:30 – 01:30 น. = 75    01:30 – 09:30 น. = 75	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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. Thanatpon Krasongkorn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement by Ms. Thanatpon Krasongkorn)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: BK11		
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	SAMPLE NO.	: 15135
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 24-25/06/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/06/2022
	S/N 01209912 : Type 2	REPORTED DATE	: 12/07/2022

TIME \ DATE	24-25/06/2022 ( $L_{eq}$ )	UNIT
09:00 – 10:00 <sup>/3</sup>	72.8	dB(A)
10:00 – 11:00	73.2	dB(A)
11:00 – 12:00	72.6	dB(A)
12:00 – 13:00	73.5	dB(A)
13:00 – 14:00	74.1	dB(A)
14:00 – 15:00	73.9	dB(A)
15:00 – 16:00	74.0	dB(A)
16:00 – 17:00	73.6	dB(A)
17:00 – 18:00	72.4	dB(A)
18:00 – 19:00	72.3	dB(A)
19:00 – 20:00	72.4	dB(A)
20:00 – 21:00	73.3	dB(A)
21:00 – 22:00	73.6	dB(A)
22:00 – 23:00	73.9	dB(A)
23:00 – 00:00	73.2	dB(A)
00:00 – 01:00	72.8	dB(A)
01:00 – 02:00	70.9	dB(A)
02:00 – 03:00	71.6	dB(A)
03:00 – 04:00	69.3	dB(A)
04:00 – 05:00	69.1	dB(A)
05:00 – 06:00	69.8	dB(A)
06:00 – 07:00	71.6	dB(A)
07:00 – 08:00	70.8	dB(A)
08:00 – 09:00	72.9	dB(A)
$L_{eq}$ 24 hr.	72.6	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>##, /1</sup>	09:00 – 17:00 น. = 73    17:00 – 01:00 น. = 72    01:00 – 09:00 น. = 70	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>##, /2</sup>	09:00 – 17:00 น. = 73    17:00 – 01:00 น. = 73    01:00 – 09:00 น. = 70	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>/1</sup> , 90 <sup>/2</sup>	dB(A)

**REMARK :**

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

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

<sup>/3</sup> Start Time

# 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 Kongsorn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Thanatporn Kongsorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

12/07/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: PK07	SAMPLE NO.	: 01203
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.	MEASURING DATE	: 19-20/01/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 21/01/2022
	: Based on ISO 11202:2010	REPORTED DATE	: 25/01/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 01209916 : Type 2		

TIME \ DATE	19-20/01/2022 (L <sub>eq</sub> )			UNIT
09:05 – 10:05 <sup>1)</sup>	81.8			dB(A)
10:05 – 11:05	79.1			dB(A)
11:05 – 12:05	78.4			dB(A)
12:05 – 13:05	78.9			dB(A)
13:05 – 14:05	82.1			dB(A)
14:05 – 15:05	81.9			dB(A)
15:05 – 16:05	75.8			dB(A)
16:05 – 17:05	76.0			dB(A)
17:05 – 18:05	76.1			dB(A)
18:05 – 19:05	75.5			dB(A)
19:05 – 20:05	78.3			dB(A)
20:05 – 21:05	81.0			dB(A)
21:05 – 22:05	78.3			dB(A)
22:05 – 23:05	78.1			dB(A)
23:05 – 00:05	76.3			dB(A)
00:05 – 01:05	78.0			dB(A)
01:05 – 02:05	75.8			dB(A)
02:05 – 03:05	76.3			dB(A)
03:05 – 04:05	77.7			dB(A)
04:05 – 05:05	75.0			dB(A)
05:05 – 06:05	75.6			dB(A)
06:05 – 07:05	78.1			dB(A)
07:05 – 08:05	76.0			dB(A)
08:05 – 09:05	77.8			dB(A)
L <sub>eq</sub> 24 hr.	78.4			dB(A)
L <sub>eq</sub> 8 hr. <sup>1), 12)</sup>	09:05 – 17:05 น. = 79	17:05 – 01:05 น. = 78	01:05 – 09:05 น. = 76	dB(A)
L <sub>eq</sub> 8 hr. <sup>1), 12)</sup>	09:05 – 17:05 น. = 79	17:05 – 01:05 น. = 77	01:05 – 09:05 น. = 76	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1)</sup> , 90 <sup>2)</sup>			dB(A)

**REMARK :**

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

<sup>12)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>13)</sup> Start Time

# 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 Kinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Wattana Khotla)



Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungskula
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: PK07	SAMPLE NO.	: 02344
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	MEASURING DATE	: 23-24/02/2022
DETERMINATION METHOD	: In-house Method : A-DM-001	RECEIVED DATE	: 24/02/2022
	Based on ISO 11202:2010	REPORTED DATE	: 25/02/2022
INSTRUMENT	: Integrated Sound Level Meter S/N 00443358 : Type 2		

TIME \ DATE	23-24/02/2022	UNIT
	( $L_{eq}$ )	
09:00 – 10:00 <sup>1)</sup>	81.5	dB(A)
10:00 – 11:00	81.8	dB(A)
11:00 – 12:00	82.5	dB(A)
12:00 – 13:00	80.8	dB(A)
13:00 – 14:00	82.1	dB(A)
14:00 – 15:00	82.4	dB(A)
15:00 – 16:00	83.3	dB(A)
16:00 – 17:00	81.4	dB(A)
17:00 – 18:00	82.3	dB(A)
18:00 – 19:00	81.0	dB(A)
19:00 – 20:00	82.1	dB(A)
20:00 – 21:00	82.2	dB(A)
21:00 – 22:00	83.8	dB(A)
22:00 – 23:00	82.4	dB(A)
23:00 – 00:00	82.9	dB(A)
00:00 – 01:00	83.4	dB(A)
01:00 – 02:00	82.8	dB(A)
02:00 – 03:00	82.3	dB(A)
03:00 – 04:00	84.3	dB(A)
04:00 – 05:00	80.0	dB(A)
05:00 – 06:00	78.6	dB(A)
06:00 – 07:00	82.6	dB(A)
07:00 – 08:00	82.4	dB(A)
08:00 – 09:00	83.6	dB(A)
$L_{eq}$ 24 hr.	82.3	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>#,1)</sup>	09:00 – 17:00 $L_{eq}$ = 82      17:00 – 01:00 $L_{eq}$ = 82      01:00 – 09:00 $L_{eq}$ = 82	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>##,12)</sup>	09:00 – 17:00 $L_{eq}$ = 82      17:00 – 01:00 $L_{eq}$ = 82      01:00 – 09:00 $L_{eq}$ = 82	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>1)</sup> , 90 <sup>2)</sup>	dB(A)

**REMARK :**

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

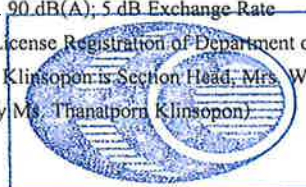
<sup>2)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1)</sup> Start Time

# 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 Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Ms. Thanatporn Klinsonon)



Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

25/02/2022

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Request No. LA65-R0377

Report No. R6503-1613

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.  
ADDRESS : 38/14 Moo 5 T. Tungsukla A, Sriracha, Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. SAMPLE NO. : 04110  
SAMPLE POINT : PK07 MEASURING DATE : 24-25/03/2022  
PARAMETER\* : L 1 hr., L 8 hr. & L 24 hr. RECEIVED DATE : 25/03/2022  
DETERMINATION METHOD : ISO 11202:2010 REPORTED DATE : 30/03/2022  
INSTRUMENT : Integrated Sound Level Meter S/N 00443358 : Type 2

TIME \ DATE	24-25/03/2022	UNIT
	(L) eq	
09:00 – 10:00 <sup>1)</sup>	82.7	dB(A)
10:00 – 11:00	81.3	dB(A)
11:00 – 12:00	78.5	dB(A)
12:00 – 13:00	79.1	dB(A)
13:00 – 14:00	76.1	dB(A)
14:00 – 15:00	81.3	dB(A)
15:00 – 16:00	82.1	dB(A)
16:00 – 17:00	81.0	dB(A)
17:00 – 18:00	81.3	dB(A)
18:00 – 19:00	81.7	dB(A)
19:00 – 20:00	81.9	dB(A)
20:00 – 21:00	82.2	dB(A)
21:00 – 22:00	87.0	dB(A)
22:00 – 23:00	86.9	dB(A)
23:00 – 00:00	85.9	dB(A)
00:00 – 01:00	82.0	dB(A)
01:00 – 02:00	77.0	dB(A)
02:00 – 03:00	78.7	dB(A)
03:00 – 04:00	75.2	dB(A)
04:00 – 05:00	74.7	dB(A)
05:00 – 06:00	75.6	dB(A)
06:00 – 07:00	81.6	dB(A)
07:00 – 08:00	78.3	dB(A)
08:00 – 09:00	81.4	dB(A)
L 24 hr. eq	81.8	dB(A)
L 8 hr. (TWA) <sup>1)</sup>	09:00 – 17:00 น. = 80    17:00 – 01:00 น. = 84    01:00 – 09:00 น. = 78	dB(A)
L 8 hr. (TWA) <sup>1), 2)</sup>	09:00 – 17:00 น. = 80    17:00 – 01:00 น. = 84    01:00 – 09:00 น. = 78	dB(A)
Standard L 8 hr. eq	85 <sup>1)</sup> , 90 <sup>2)</sup>	dB(A)

## REMARK :

<sup>1)</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)<sup>2)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)<sup>3)</sup> Start Time<sup>\*</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate<sup>\*\*</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate<sup>\*</sup> Parameter have L 8 hr. Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009  
(Measurement by MRS. Wanpen Lhaochindawat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

30/03/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 05197
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 05-06/04/2022
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 07/04/2022
SAMPLE POINT	: PK05	REPORTED DATE	: 20/04/2022
PARAMETER*	: L <sub>eq</sub> 1 hr., L <sub>eq</sub> 8 hr. & L <sub>eq</sub> 24 hr.		
DETERMINATION METHOD	: ISO 11202:2010		
INSTRUMENT	: Integrated Sound Level Meter S/N 090090 : Type 2		

TIME \ DATE	05-06/04/2022	UNIT
	(L <sub>eq</sub> )	
10:00 – 11:00 <sup>1/3</sup>	86.0	dB(A)
11:00 – 12:00	80.7	dB(A)
12:00 – 13:00	86.1	dB(A)
13:00 – 14:00	84.6	dB(A)
14:00 – 15:00	83.1	dB(A)
15:00 – 16:00	85.8	dB(A)
16:00 – 17:00	80.4	dB(A)
17:00 – 18:00	85.8	dB(A)
18:00 – 19:00	79.8	dB(A)
19:00 – 20:00	84.1	dB(A)
20:00 – 21:00	86.9	dB(A)
21:00 – 22:00	82.1	dB(A)
22:00 – 23:00	85.7	dB(A)
23:00 – 00:00	79.6	dB(A)
00:00 – 01:00	85.8	dB(A)
01:00 – 02:00	81.2	dB(A)
02:00 – 03:00	85.4	dB(A)
03:00 – 04:00	79.6	dB(A)
04:00 – 05:00	79.4	dB(A)
05:00 – 06:00	79.6	dB(A)
06:00 – 07:00	79.4	dB(A)
07:00 – 08:00	83.2	dB(A)
08:00 – 09:00	83.7	dB(A)
09:00 – 10:00	83.9	dB(A)
L <sub>eq</sub> 24 hr.	83.7	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/1</sup>	10:00 – 18:00 น. = 84    18:00 – 02:00 น. = 83    02:00 – 10:00 น. = 82	dB(A)
L <sub>eq</sub> 8 hr. (TWA) <sup>1/2</sup>	10:00 – 18:00 น. = 84    18:00 – 02:00 น. = 83    02:00 – 10:00 น. = 82	dB(A)
Standard L <sub>eq</sub> 8 hr.	85 <sup>1/1</sup> , 90 <sup>1/2</sup>	dB(A)

**REMARK :**

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

<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>1/3</sup> Start Time

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

## Based on Criteria 90 dB(A); 3 dB Exchange Rate

\* Parameter not having a license registration of Department of Labour Protection and Welfare

(Ms. Thanatporn Krasaporn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Thanatporn Krasaporn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		: A. Sriracha, Chonburi 20230
SAMPLE POINT	: PK05		
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	SAMPLE NO.	: 15134
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 24-25/06/2022
INSTRUMENT	: Integrated Sound Level Meter ; S/N 00310456 : Type 2	RECEIVED DATE	: 26/06/2022
		REPORTED DATE	: 12/07/2022

TIME \ DATE	24-25/06/2022 ( $L_{eq}$ )	UNIT
09:05 – 10:05 <sup>/3</sup>	81.7	dB(A)
10:05 – 11:05	80.0	dB(A)
11:05 – 12:05	80.7	dB(A)
12:05 – 13:05	80.1	dB(A)
13:05 – 14:05	80.6	dB(A)
14:05 – 15:05	80.0	dB(A)
15:05 – 16:05	79.6	dB(A)
16:05 – 17:05	73.8	dB(A)
17:05 – 18:05	73.4	dB(A)
18:05 – 19:05	73.7	dB(A)
19:05 – 20:05	78.6	dB(A)
20:05 – 21:05	82.6	dB(A)
21:05 – 22:05	82.3	dB(A)
22:05 – 23:05	83.2	dB(A)
23:05 – 00:05	78.3	dB(A)
00:05 – 01:05	82.4	dB(A)
01:05 – 02:05	79.7	dB(A)
02:05 – 03:05	80.8	dB(A)
03:05 – 04:05	75.1	dB(A)
04:05 – 05:05	74.8	dB(A)
05:05 – 06:05	78.2	dB(A)
06:05 – 07:05	81.6	dB(A)
07:05 – 08:05	77.7	dB(A)
08:05 – 09:05	77.8	dB(A)
$L_{eq}$ 24 hr.	79.9	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>/1</sup>	09:05 – 17:05 น. = 79    17:05 – 01:05 น. = 80    01:05 – 09:05 น. = 78	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>/2</sup>	09:05 – 17:05 น. = 79    17:05 – 01:05 น. = 80    01:05 – 09:05 น. = 78	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>/1</sup> , 90 <sup>/2</sup>	dB(A)

**REMARK :**

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

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

<sup>/3</sup> Start Time

# 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 Kinsopon is Technical Head) Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By: Ms. Thanatporn Kinsopon)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

12/07/2022

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**TEST REPORT**

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	ADDRESS	: 38/14 Moo 5 T. Tungsukla
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: PK05		
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 8 hr. & $L_{eq}$ 24 hr.	SAMPLE NO.	: 15136
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/06/2022
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/06/2022
	S/N 00310456 : Type 2	REPORTED DATE	: 12/07/2022

TIME \ DATE	25-26/06/2022 ( $L_{eq}$ )	UNIT
09:05 – 10:05 <sup>/3</sup>	81.5	dB(A)
10:05 – 11:05	81.3	dB(A)
11:05 – 12:05	81.3	dB(A)
12:05 – 13:05	80.1	dB(A)
13:05 – 14:05	81.3	dB(A)
14:05 – 15:05	81.4	dB(A)
15:05 – 16:05	77.4	dB(A)
16:05 – 17:05	78.5	dB(A)
17:05 – 18:05	81.5	dB(A)
18:05 – 19:05	79.7	dB(A)
19:05 – 20:05	74.8	dB(A)
20:05 – 21:05	75.3	dB(A)
21:05 – 22:05	78.6	dB(A)
22:05 – 23:05	81.2	dB(A)
23:05 – 00:05	80.1	dB(A)
00:05 – 01:05	81.9	dB(A)
01:05 – 02:05	78.6	dB(A)
02:05 – 03:05	81.9	dB(A)
03:05 – 04:05	73.4	dB(A)
04:05 – 05:05	72.0	dB(A)
05:05 – 06:05	72.2	dB(A)
06:05 – 07:05	72.6	dB(A)
07:05 – 08:05	71.9	dB(A)
08:05 – 09:05	71.9	dB(A)
$L_{eq}$ 24 hr.	79.2	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>#, /1</sup>	09:05 – 17:05 น. = 80    17:05 – 01:05 น. = 79    01:05 – 09:05 น. = 76	dB(A)
$L_{eq}$ 8 hr. (TWA) <sup>##, /2</sup>	09:05 – 17:05 น. = 80    17:05 – 01:05 น. = 79    01:05 – 09:05 น. = 75	dB(A)
Standard $L_{eq}$ 8 hr.	85 <sup>/1</sup> , 90 <sup>/2</sup>	dB(A)

**REMARK :**

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

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

<sup>/3</sup> Start Time

<sup>#</sup> Based on Criteria 85 dB(A); 3 dB Exchange Rate

<sup>##</sup> 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 Kongsaporn, Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By: Ms. Thanaporn Kongsaporn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

12/07/2022

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Request No. ATR6501041

Report No. 6501-0524

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 19/01/2022 SAMPLE NO. : A65010524  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 08:45-09:45  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/01/2022-02/02/2022  
 Serial No. 20200403073 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

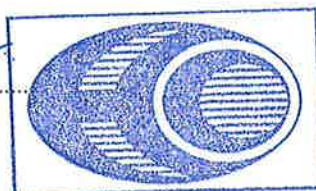
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsopon)

05/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

05/02/2022

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Request No. ATR6502018

Report No. 6502-0079

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020079  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 09:15-10:15  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-24/02/2022  
 Serial No. 20200403076 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.055	1.00	mg/m <sup>3</sup>
		0.014	0.25	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Miss Thanatporn Klinsopon)

05/03/2022



Approved By



(Mr. Kawee Suthasub)

05/03/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. ATR6503026

Report No. 6503-0406

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 08/03/2022  
 RECEIVED DATE : 14/03/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min  
 Serial No. 20200403078

SAMPLE NO. : A65030406  
 SAMPLING TIME : 09:45-10:45  
 TESTED DATE : 14/03/2022-21/03/2022  
 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.063	1.00	mg/m <sup>3</sup>
		0.016	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

23/03/2022



Approved By

(Mr. Kawee Suthasub)

23/03/2022

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Request No. ATR6504014

Report No. 6504-0368

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 05/04/2022 SAMPLE NO. : A65040368  
 RECEIVED DATE : 09/04/2022 SAMPLING TIME : 09:40-10:40  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 09/04/2022-18/04/2022  
 Serial No. 218413 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (NIOSH7908)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By



(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

19/04/2022

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Request No. ATR6505048

Report No. 6505-0765

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 10/05/2022 SAMPLE NO. : A65050765  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 08:45-09:45  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-18/05/2022  
 Serial No. 20180903082 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

Thongchai Boonsak

(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

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Request No. ATR6506036

Report No. 6506-0785

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK01  
 SAMPLING DATE : 14/06/2022 SAMPLE NO. : A65060785  
 RECEIVED DATE : 20/06/2022 SAMPLING TIME : 09:30-10:30  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 20/06/2022-25/06/2022  
 Serial No. 218408 REPORTED DATE : 29/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

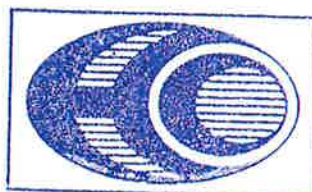
(Sampling By Mr. Witchawan Singto)

Examined By



(Miss Thanatporn Klinsopon)

29/06/2022



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Nunnaphat Bakhuntod)

29/06/2022

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Request No. ATR6502018

Report No. 6502-0075

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 07/02/2022  
 RECEIVED DATE : 14/02/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min  
 Serial No. 20180903084

SAMPLE NO. : A65020075  
 SAMPLING TIME : 09:10-10:10  
 TESTED DATE : 14/02/2022-24/02/2022  
 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By


  
(Miss Thanatporn Klinsopon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

05/03/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6502018

Report No. 6502-0082

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020082  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 10:10-11:10  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-24/02/2022  
 Serial No. 20180903084 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By


  
(Miss Thanatporn Klinsopon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Approved By



(Mr. Kawee Suthasub)

05/03/2022



Request No. ATR6503026

Report No. 6503-0415

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 11/03/2022  
 RECEIVED DATE : 14/03/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min  
 Serial No. 20180903080

SAMPLE NO. : A65030415  
 SAMPLING TIME : 09:10-10:10  
 TESTED DATE : 14/03/2022-21/03/2022  
 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m
		< 0.010	0.25	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

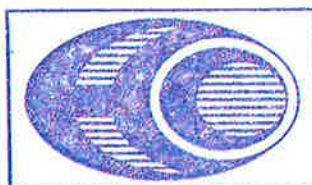
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

23/03/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6505048

Report No. 6505-0766

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 10/05/2022 SAMPLE NO. : A65050766  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 09:50-10:50  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-18/05/2022  
 Serial No. 20200403079 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.062	1.00	mg/m <sup>3</sup>
		0.015	0.25	ppm

**REMARK:**<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6502018

Report No. 6502-0076

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020076  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 09:10-10:10  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-15/02/2022  
 Serial No. 20200403071 REPORTED DATE : 05/03/2022

PARAMETER**	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Nitric Acid	Ion Chromatography, Conductivity Detection	< 0.02	5	mg/m <sup>3</sup>
		< 0.01	2	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008.,

(Sampling By Eastern Thai Consulting 1992 Co.,Ltd., Mr. Wattana Khotla)

Analysed By Environment Research &amp; Technology Co.,Ltd.



Examined By.....

(Miss Thanatporn Klinsoon)

05/03/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. ATR6502018

Report No. 6502-0083

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020083  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 10:10-11:10  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-15/02/2022  
 Serial No. 20200403071 REPORTED DATE : 05/03/2022

PARAMETER**	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Nitric Acid	Ion Chromatography, Conductivity Detection	< 0.02	5	mg/m <sup>3</sup>
		< 0.01	2	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008.,

(Sampling By Eastern Thai Consulting 1992 Co.,Ltd., Mr. Wattana Khotla)

Analysed By Environment Research &amp; Technology Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By

(Miss Thanatporn Klinson)

05/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6503026

Report No. 6503-0414

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
ADDRESS : 38/14 Moo,5 T. Tungsukla A. Sriracha , Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
SAMPLE NAME : PK03  
SAMPLING DATE : 11/03/2022  
RECEIVED DATE : 14/03/2022  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/inin  
Serial No. 20150302002

SAMPLE NO. : A65030414  
SAMPLING TIME : 09:10-10:10  
TESTED DATE : 14/03/2022-21/03/2022  
REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.387	5	mg/m <sup>3</sup>
		0.150	2	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

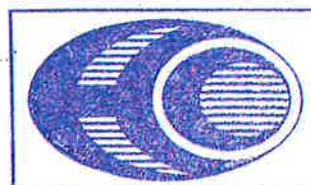
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

23/03/2022



Approved By

(Mr. Kawee Suthasub)

23/03/2022

REPORT FOR THE LABORATORY SUBMITTED SAMPLES ONLY

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Request No. ATR6505048

Report No. 6505-0767

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK03  
 SAMPLING DATE : 10/05/2022 SAMPLE NO. : A65050767  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 09:50-10:50  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-18/05/2022  
 Serial No. 20180903082 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.508	5	mg/m <sup>3</sup>
		0.197	2	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

Thongchai Boonsak

(Mr. Thongchai Boonsak)

25/05/2022



Approved By



(Mr. Kawee Suthasub)

25/05/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. ATR6501041

Report No. 6501-0523

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK07  
 SAMPLING DATE : 19/01/2022 SAMPLE NO. : A65010523  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 08:57-09:57  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/01/2022-02/02/2022  
 Serial No. 20200403062 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.511	1.00	mg/m <sup>3</sup>
		0.127	0.25	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

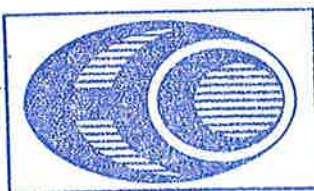
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsopon)

05/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

05/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6502030

Report No. 6502-0285

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK07  
 SAMPLING DATE : 23/02/2022 SAMPLE NO. : A65020285  
 RECEIVED DATE : 24/02/2022 SAMPLING TIME : 09:00-10:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 24/02/2022-09/03/2022  
 Serial No. 218385 REPORTED DATE : 10/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.099	1.00	mg/m <sup>3</sup>
		0.025	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

  
(Miss Thanatporn Klinsopon)

10/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

10/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
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Request No. ATR6503061

Report No. 6503-1065

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK07  
 SAMPLING DATE : 24/03/2022 SAMPLE NO. : A65031065  
 RECEIVED DATE : 29/03/2022 SAMPLING TIME : 09:10-10:10  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 29/03/2022-11/04/2022  
 Serial No. 218406 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.083	1.00	mg/m <sup>3</sup>
		0.021	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6504014

Report No. 6504-0370

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
SAMPLE NAME : PK05  
SAMPLING DATE : 05/04/2022 SAMPLE NO. : A65040370  
RECEIVED DATE : 09/04/2022 SAMPLING TIME : 09:50-10:50  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 09/04/2022-18/04/2022  
Serial No. 218405 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (NIOSH7908)	0.094	1.00	mg/m <sup>3</sup>
		0.023	0.25	ppm

**REMARK:**<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By .....

(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

19/04/2022

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Request No. ATR6505086

Report No. 6505-1379

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK07  
 SAMPLING DATE : 26/05/2022 SAMPLE NO. : A65051379  
 RECEIVED DATE : 31/05/2022 SAMPLING TIME : 08:55-09:55  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 31/05/2022-09/06/2022  
 Serial No. 218403 REPORTED DATE : 14/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Audoumsub Jenjobjing)

Examined By



(Mr. Thongchai Boonsak)

14/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

14/06/2022

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Request No. ATR6506057

Report No. 6506-1395

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : PK05  
 SAMPLING DATE : 24/06/2022 SAMPLE NO. : A65061395  
 RECEIVED DATE : 27/06/2022 SAMPLING TIME : 09:10-10:10  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/06/2022-07/07/2022  
 Serial No. 218403 REPORTED DATE : 11/07/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Thongchai Boonsak)

Examined By .....

(Miss Thanatporn Klinsopon)

11/07/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

11/07/2022

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Request No. ATR6501041

Report No. 6501-0525

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP02  
 SAMPLING DATE : 19/01/2022 SAMPLE NO. : A65010525  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 08:47-09:47  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/01/2022-02/02/2022  
 Serial No. 20200403063 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.106	1.00	mg/m <sup>3</sup>
		0.026	0.25	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

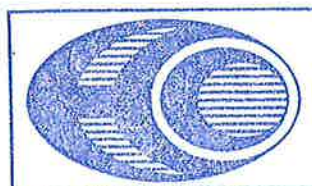
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsopon)

05/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

05/02/2022

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Request No. ATR6502018

Report No. 6502-0080

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP02  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020080  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 09:18-10:18  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-24/02/2022  
 Serial No. 20180903092 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Miss Thanatporn Klinsopon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Approved By



(Mr. Kawee Suthasub)

05/03/2022

COPY

Request No. ATR6503026

Report No. 6503-0407

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP02  
 SAMPLING DATE : 08/03/2022  
 RECEIVED DATE : 14/03/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min  
 Serial No. 20200403072

SAMPLE NO. : A65030407  
 SAMPLING TIME : 09:50-10:50  
 TESTED DATE : 14/03/2022-21/03/2022  
 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.125	1.00	mg/m <sup>3</sup>
		0.031	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By



(Miss Thanatporn Klinsopon)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

23/03/2022

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Request No. ATR6504014

Report No. 6504-0369

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP02  
 SAMPLING DATE : 05/04/2022 SAMPLE NO. : A65040369  
 RECEIVED DATE : 09/04/2022 SAMPLING TIME : 09:42-10:42  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 09/04/2022-18/04/2022  
 Serial No. 218388 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (NIOSH7908)	0.081	1.00	mg/m <sup>3</sup>
		0.020	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

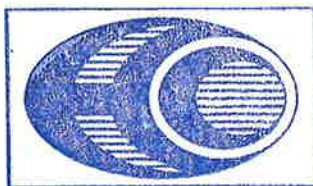
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

19/04/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6505048

Report No. 6505-0763

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP-02  
 SAMPLING DATE : 12/05/2022  
 RECEIVED DATE : 18/05/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
 Serial No. 20180903078

SAMPLE NO. : A65050763  
 SAMPLING TIME : 08:40-09:40  
 TESTED DATE : 18/05/2022-18/05/2022  
 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 \* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.  
 (Sampling By Mr. Wattana Khotla)

Examined By

Thongchai Boonsak

(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

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Request No. ATR6506036

Report No. 6506-0786

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : AP02  
 SAMPLING DATE : 14/06/2022 SAMPLE NO. : A65060786  
 RECEIVED DATE : 20/06/2022 SAMPLING TIME : 09:33-10:33  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 20/06/2022-25/06/2022  
 Serial No. 218388 REPORTED DATE : 29/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsoyon)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

29/06/2022

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Request No. ATR6501041

Report No. 6501-0522

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 18/01/2022 SAMPLE NO. : A65010522  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 08:40-09:40  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/01/2022-02/02/2022  
 Serial No. 20200403073 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

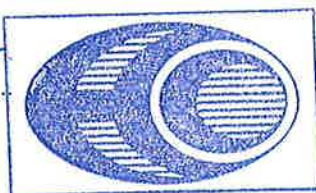
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By .....

(Miss Thanatporn Klinsopon)

05/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

05/02/2022

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Request No. ATR6502018

Report No. 6502-0081

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 07/02/2022 SAMPLE NO. : A65020081  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 09:25-10:25  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/02/2022-24/02/2022  
 Serial No. 20180903082 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsonpon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

05/03/2022

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Request No. ATR6503026

Report No. 6503-0405

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 07/03/2022  
 RECEIVED DATE : 14/03/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min  
 Serial No. 20181001044

SAMPLE NO. : A65030405  
 SAMPLING TIME : 09:00-10:00  
 TESTED DATE : 14/03/2022-21/03/2022  
 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.126	1.00	mg/m
		0.031	0.25	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsoon)

Examined By

(Miss Thanatporn Klinsoon)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

23/03/2022

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Request No. ATR6504014

Report No. 6504-0365

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 04/04/2022 SAMPLE NO. : A65040365  
 RECEIVED DATE : 09/04/2022 SAMPLING TIME : 09:42-10:42  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 09/04/2022-18/04/2022  
 Serial No. 218408 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (NIOSH7908)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By



(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

19/04/2022

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Request No. ATR6505048

Report No. 6505-0764

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 10/05/2022 SAMPLE NO. : A65050764  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 08:35-09:35  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-18/05/2022  
 Serial No. 20200403079 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.093	1.00	mg/m <sup>3</sup>
		0.023	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

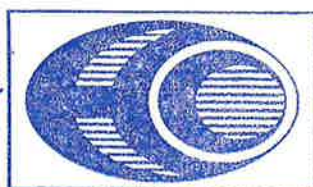
(Sampling By Mr. Wattana Khotla)

Examined By

Thongchai Boonsak

(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6506036

Report No. 6506-0787

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : WWT Storage  
 SAMPLING DATE : 14/06/2022 SAMPLE NO. : A65060787  
 RECEIVED DATE : 20/06/2022 SAMPLING TIME : 09:28-10:28  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 20/06/2022-25/06/2022  
 Serial No. 218402 REPORTED DATE : 29/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By



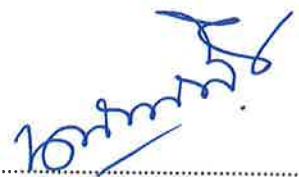
(Miss Thanatporn Klinsoon)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Nunnaphat Bakhuntod)

29/06/2022

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Request No. ATR6501041

Report No. 6501-0527

## TEST REPORT

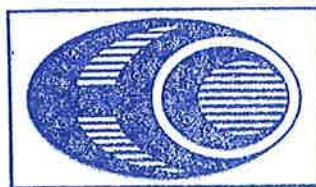
CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungasukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 20/01/2022 SAMPLE NO. : A65010527  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 09:10-10:20  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 24/01/2022-26/01/2022  
 Serial No. 20200403061 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.06	5	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter not have License Registration of Department of Labour Protection and Welfare.  
 (Sampling By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsohon)

05/02/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. ATR6502018

Report No. 6502-0078

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 08/02/2022 SAMPLE NO. : A65020078  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 08:45-09:55  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/02/2022-01/03/2022  
 Serial No. 20180903092 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.19	5	mg/m <sup>3</sup>

**REMARK:**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals,  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Miss Thanatporn Klinsoon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

05/03/2022

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Request No. ATR6503026

Report No. 6503-0409

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 08/03/2022 SAMPLE NO. : A65030409  
 RECEIVED DATE : 14/03/2022 SAMPLING TIME : 09:35-10:45  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/03/2022-15/03/2022  
 Serial No. 20200403074 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.03	5	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals  
 (Standard for Zinc oxide fume)

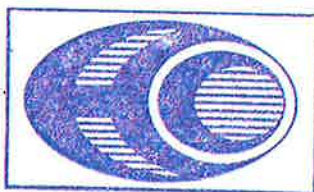
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

23/03/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6504014

Report No. 6504-0367

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 05/04/2022  
 RECEIVED DATE : 09/04/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min  
 Serial No. 20180903076

SAMPLE NO. : A65040367  
 SAMPLING TIME : 09:30-10:40  
 TESTED DATE : 09/04/2022-11/04/2022  
 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.09	5	mg/m <sup>3</sup>

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

19/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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COPY

Request No. ATR6505048

Report No. 6505-0762

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 11/05/2022 SAMPLE NO. : A65050762  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 09:34-10:44  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 18/05/2022-18/05/2022  
 Serial No. 20200403079 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.09	5	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

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Request No. ATR6506036

Report No. 6506-0789

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Casting Area  
 SAMPLING DATE : 14/06/2022 SAMPLE NO. : A65060789  
 RECEIVED DATE : 20/06/2022 SAMPLING TIME : 09:15-10:25  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 20/06/2022-20/06/2022  
 Serial No. 20180903080 REPORTED DATE : 29/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.16	5	mg/m <sup>3</sup>

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals,  
(Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

29/06/2022

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Request No. ATR6501041

Report No. 6501-0526

## TEST REPORT

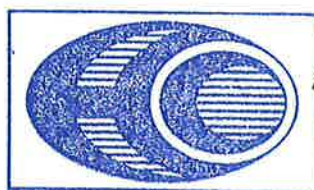
CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungasukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Melting Area  
 SAMPLING DATE : 20/01/2022 SAMPLE NO. : A65010526  
 RECEIVED DATE : 24/01/2022 SAMPLING TIME : 09:05-10:15  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 24/01/2022-26/01/2022  
 Serial No. 20200403073 REPORTED DATE : 05/02/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.04	5	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter not have License Registration of Department of Labour Protection and Welfare.  
 (Sampling By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

05/02/2022

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Request No. ATR6502018

Report No. 6502-0077

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Melting Area  
 SAMPLING DATE : 08/02/2022 SAMPLE NO. : A65020077  
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 08:40-09:50  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/02/2022-01/03/2022  
 Serial No. 20180903082 REPORTED DATE : 05/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.08	5	mg/m <sup>3</sup>

**REMARK:**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By



(Miss Thanatporn Klinsoon)

05/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

05/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6503026

Report No. 6503-0408

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Melting Area  
 SAMPLING DATE : 08/03/2022  
 RECEIVED DATE : 14/03/2022  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min  
 Serial No. 20181001044

SAMPLE NO. : A65030408  
 SAMPLING TIME : 09:30-10:40  
 TESTED DATE : 14/03/2022-15/03/2022  
 REPORTED DATE : 23/03/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.18	5	mg/m <sup>3</sup>

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals  
 (Standard for Zinc oxide fume)

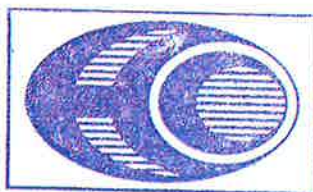
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By

(Miss Thanatporn Klinsopon)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

23/03/2022

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Request No. ATR6504014

Report No. 6504-0366

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Melting Area  
 SAMPLING DATE : 05/04/2022 SAMPLE NO. : A65040366  
 RECEIVED DATE : 09/04/2022 SAMPLING TIME : 09:20-10:30  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 09/04/2022-11/04/2022  
 Serial No. 20180903094 REPORTED DATE : 19/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.40	5	mg/m <sup>3</sup>

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.

(Sampling By Miss Thanatporn Klinsopon)

Examined By .....

(Miss Thanatporn Klinsopon)

19/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By .....

(Mr. Kawee Suthasub)

19/04/2022

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Request No. ATR6505048

Report No. 6505-0761

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
ADDRESS : 38/14 Moo.5 T. Tungsukla A. Sriracha , Chonburi 20230  
SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
SAMPLE NAME : Melting Area  
SAMPLING DATE : 11/05/2022  
RECEIVED DATE : 18/05/2022  
SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min  
Serial No. 20200403073  
SAMPLE NO. : A65050761  
SAMPLING TIME : 09:30-10:40  
TESTED DATE : 18/05/2022-18/05/2022  
REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.44	5	mg/m <sup>3</sup>

### REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
(Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Wattana Khotla)

Examined By

*Thongchai Boonsak*

(Mr. Thongchai Boonsak)

25/05/2022



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By

*Kawee Suthasub*

(Mr. Kawee Suthasub)

25/05/2022

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Request No. ATR6506036

Report No. 6506-0788

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.  
 ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230  
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.  
 SAMPLE NAME : Melting Area  
 SAMPLING DATE : 14/06/2022 SAMPLE NO. : A65060788  
 RECEIVED DATE : 20/06/2022 SAMPLING TIME : 09:17-10:27  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 20/06/2022-20/06/2022  
 Serial No. 20200403071 REPORTED DATE : 29/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.04	5	mg/m <sup>3</sup>

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.  
 (Standard for Zinc oxide fume)

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
 No.0202-03-2564-0005.  
 (Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsoon)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

29/06/2022

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Request No. LA65-R0148

Report No. R6501-1124 - R6501-1126

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 01211-01213  
MEASURING DATE : 20/01/2022 RECEIVED DATE : 21/01/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 25/01/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080014, TEU080015

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	26.6	26.8	27.1	27.8	27.0
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	25.7	26.2	26.4	26.7	26.3
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	21.0	21.2	21.4	21.0	21.2
WBGT AVERAGE	09:00-11:00	-	-	-	-	24.0
STANDARD		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 209.61 Kcal/hr.

<sup>1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

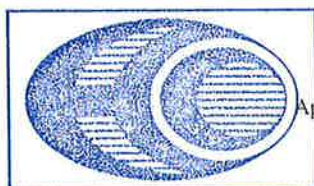
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA65-R0220

Report No. R6502-0483 - R6502-0485

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 02065-02067  
MEASURING DATE : 07/02/2022 RECEIVED DATE : 10/02/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 15/02/2022  
Wet Bulb Globe Temperature (WBGT) : Serial No. TPI050070, TEU080011, TEU080012

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	29.5	29.5	29.6	29.6	29.6
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	27.9	27.7	28.2	28.3	28.0
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	22.3	22.3	22.9	22.8	22.6
WBGT AVERAGE	09:00-11:00	-	-	-	-	25.8
STANDARD		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 209.61 Kcal/hr.

<sup>1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

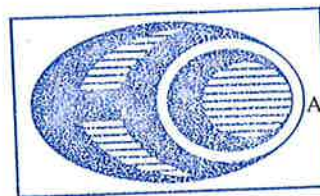
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA65-R0342

Report No. R6503-0819 - R6503-0821

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 03299-03301  
MEASURING DATE : 08/03/2022 RECEIVED DATE : 10/03/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080014, TEU080012

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	29.4	28.9	29.8	30.1	29.6
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	27.0	26.9	27.2	27.2	27.1
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	23.7	24.3	23.9	24.2	24.0
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	26.4
<b>STANDARD</b>		-	-	-	-	32.0 <sup>/1,2</sup>

## REMARK :

Work Load = 209.61 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

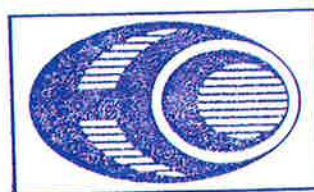
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

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

(Measurement By Ms. Thanatporn Klinsonpon)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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Request No. LA65-R0426

Report No. R6504-0626 - R6504-0628

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 05185-05187  
MEASURING DATE : 05/04/2022 RECEIVED DATE : 07/04/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 20/04/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080014, TEU080012

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:30-11:30	27.6	27.6	27.7	27.7	27.6
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	27.5	27.5	27.6	27.8	27.5
Heat Stress (Melting) (ห้องพักพนักงาน)	09:30-11:30	20.5	21.2	21.3	21.2	21.0
<b>WBGT AVERAGE</b>	09:30-11:30	-	-	-	-	24.3
<b>STANDARD</b>		-	-	-	-	32.0 <sup>/1,2</sup>

## REMARK :

Work Load = 209.61 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsohon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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Request No. LA65-R0585

Report No. R6505-2381 - R6505-2383

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 09271-09273  
MEASURING DATE : 11/05/2022 RECEIVED DATE : 13/05/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/05/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TPI050069, TPQ030023, TPL090017

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	31.0	31.0	30.8	30.8	30.9
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	29.2	29.1	29.1	29.1	29.1
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	23.3	23.2	23.0	22.8	23.1
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	26.7
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 209.61 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

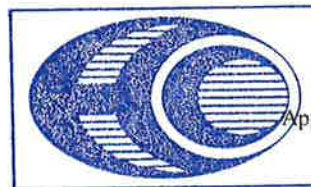
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

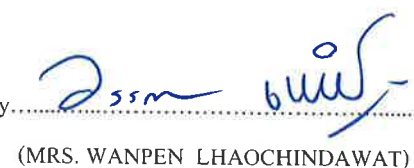
\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Ms. Thanatporn Klinsohon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R0675

Report No. R6506-3060 - R6506-3062

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tung Sukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Melting SAMPLE NO. : 13344-13346  
MEASURING DATE : 15/06/2022 RECEIVED DATE : 17/06/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 22/06/2022  
Wet Bulb Globe Temperature (WBGT) : Serial No. TPH060001, TPI050070, TPL090017

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	30.9	30.9	31.1	32.0	31.2
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	30.0	30.1	30.4	30.7	30.3
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	24.5	23.1	22.4	21.8	22.9
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	26.9
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1,2</sup>

**REMARK :**

Work Load = 209.61 Kcal/hr.

<sup>1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsoon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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Request No. LA65-R0148

Report No. R6501-1127 - R6501-1129

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 01214-01216  
MEASURING DATE : 20/01/2022 RECEIVED DATE : 21/01/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 25/01/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080012, TPI050069, TEU080011

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:00-11:00	26.9	26.9	27.2	27.5	27.1
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	25.4	25.8	25.7	26.1	25.8
Heat Stress (Casting) (ห้องพักพนักงาน)	09:00-11:00	22.8	22.5	23.8	23.3	23.1
WBGT AVERAGE	09:00-11:00	-	-	-	-	24.9
STANDARD		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 203.25 Kcal/hr.

<sup>1/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>1/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

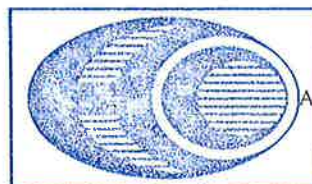
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

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

(Measurement By Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA65-R0220

Report No. R6502-0486 - R6502-0488

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 02068-02070  
MEASURING DATE : 07/02/2022 RECEIVED DATE : 10/02/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 15/02/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015, TEU080014, TEU080013

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:00-11:00	28.2	27.9	28.4	28.3	28.2
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	29.5	29.4	29.4	29.6	29.5
Heat Stress (Casting) (ห้องพักพนักงาน)	09:00-11:00	23.1	23.4	23.0	21.5	22.8
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	25.7
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 203.25 Kcal/hr.

<sup>1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

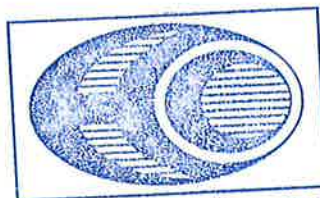
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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Request No. LA65-R0342

Report No. R6503-0822 - R6503-0824

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 03302-03304  
MEASURING DATE : 08/03/2022 RECEIVED DATE : 10/03/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TPH060001, TPL060040, TPL060039

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:00-11:00	27.2	26.9	27.2	27.4	27.2
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	25.7	25.3	26.0	25.8	25.7
Heat Stress (Casting) (ห้องพักพนักงาน)	09:00-11:00	22.6	22.8	22.6	22.5	22.6
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	24.7
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 203.25 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsohon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By



(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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Request No. LA65-R0426

Report No. R6504-0629 - R6504-0631

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 05188-05190  
MEASURING DATE : 05/04/2022 RECEIVED DATE : 07/04/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 20/04/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080014, TEU080012

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	12:30-14:30	28.4	28.5	28.6	28.5	28.5
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	12:30-14:30	26.2	26.2	26.2	26.1	26.2
Heat Stress (Casting) (ห้องพักพนักงาน)	12:30-14:30	23.4	23.7	24.7	25.0	24.2
<b>WBGT AVERAGE</b>	12:30-14:30	-	-	-	-	26.0
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1/2</sup>

**REMARK :**

Work Load = 203.25 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsoapon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2022

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Request No. LA65-R0585

Report No. R6505-2384 - R6505-2386

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 09274-09276  
MEASURING DATE : 11/05/2022 RECEIVED DATE : 13/05/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/05/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TPQ030023, TPI050069, TPL090017

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	13:00-15:00	29.6	29.8	29.9	29.4	29.7
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	13:00-15:00	28.5	28.2	28.2	28.2	28.3
Heat Stress (Casting) (ห้องพักพนักงาน)	13:00-15:00	23.7	23.6	23.5	23.5	23.6
<b>WBGT AVERAGE</b>	13:00-15:00	-	-	-	-	26.4
<b>STANDARD</b>		-	-	-	-	32.0 <sup>/1,2</sup>

**REMARK :**

Work Load = 203.25 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsohon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R0675

Report No. R6506-3057 - R6506-3059

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : Casting SAMPLE NO. : 13341-13343  
MEASURING DATE : 15/06/2022 RECEIVED DATE : 17/06/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 22/06/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TPH060001, TPI050070, TPL090017

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	13:00-15:00	31.5	31.5	31.4	31.5	31.5
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	13:00-15:00	29.4	29.5	29.7	29.0	29.4
Heat Stress (Casting) (ห้องพักพนักงาน)	13:00-15:00	26.4	26.5	26.8	27.4	26.8
<b>WBGT AVERAGE</b>	13:00-15:00	-	-	-	-	28.8
<b>STANDARD</b>		-	-	-	-	32.0 <sup>1/2</sup>

## REMARK :

Work Load = 203.25 Kcal/hr.

<sup>1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)<sup>2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Moderate)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsopon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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Request No. LA65-R0148

Report No. R6501-1121 - R6501-1123

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 01208-01210  
MEASURING DATE : 19/01/2022 RECEIVED DATE : 21/01/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 25/01/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011, TEU080012, TEU080013

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:30-11:30	19.4	20.9	18.7	18.3	19.3
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:30-11:30	25.5	25.7	26.1	26.1	25.8
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:30-11:30	27.5	28.3	28.4	28.2	28.1
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:30-11:30	-	-	-	-	23.4
STANDARD		-	-	-	-	34.0 <sup>1/2</sup>

## REMARK :

Work Load = 132.60 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Mr. Wattana Khotla)

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

25/01/2022

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Request No. LA65-R0220

Report No. R6502-0489 - R6502-0491

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 02071-02073  
MEASURING DATE : 08/02/2022 RECEIVED DATE : 10/02/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 15/02/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011, TEU080013, TEU080012

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	20.9	20.5	20.1	19.9	20.3
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	30.1	30.4	30.0	30.5	30.2
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	29.9	29.8	30.0	30.9	30.1
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:00-11:00	-	-	-	-	25.7
STANDARD		-	-	-	-	34.0 <sup>/1,2</sup>

## REMARK :

Work Load = 132.60 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

NWB = Natural Wet - Bulb Temperature

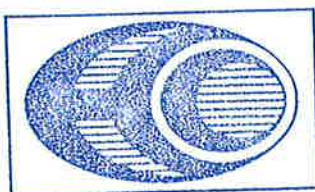
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

15/02/2022

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Request No. LA65-R0342

Report No. R6503-0825 - R6503-0827

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 03305-03307  
MEASURING DATE : 09/03/2022 RECEIVED DATE : 10/03/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080012, TEU080013, TEU080014

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	18.6	18.3	17.9	17.6	18.1
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	28.3	28.5	28.8	28.5	28.5
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	27.8	27.9	28.3	28.4	28.1
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	23.7
<b>STANDARD</b>		-	-	-	-	34.0 <sup>1/2</sup>

## REMARK :

Work Load = 132.60 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

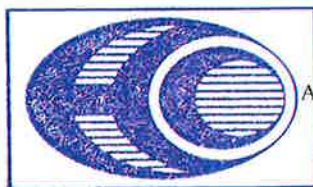
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsopon)



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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2022

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Request No. LA65-R0609

Report No. R6506-0311 - R6506-0313

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 10555-10557  
MEASURING DATE : 26/05/2022 RECEIVED DATE : 28/05/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 21/06/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TP1050069, TPQ030023, TPL060039

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	10:00-12:00	22.2	20.2	19.7	19.5	20.4
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	10:00-12:00	30.1	30.6	31.0	30.6	30.6
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	10:00-12:00	30.2	31.1	31.1	31.0	30.9
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
<b>WBGT AVERAGE</b>	10:00-12:00	-	-	-	-	26.0
<b>STANDARD</b>		-	-	-	-	34.0 <sup>/1,2</sup>

## REMARK :

Work Load = 132.60 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Mrs. Wanpen Lhaochindawat)



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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/06/2022

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Request No. LA65-R0585

Report No. R6505-2387 - R6505-2389

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 09277-09279  
MEASURING DATE : 13/05/2022 RECEIVED DATE : 13/05/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/05/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TPQ030023, TPL090017, TPI050069

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	21.3	19.8	20.2	20.4	20.4
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	29.8	30.3	30.4	31.6	30.5
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	31.1	31.9	32.4	32.4	31.9
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	26.3
<b>STANDARD</b>		-	-	-	-	34.0 <sup>1/2</sup>

## REMARK :

Work Load = 132.60 Kcal/hr.

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsopton)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/05/2022

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Request No. LA65-R0675

Report No. R6506-3054 - R6506-3056

## TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd. ADDRESS : 38/14 Moo 5 T. Tungsukla  
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd. A. Sriracha, Chonburi 20230  
SAMPLE POINT : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 13338-13340  
MEASURING DATE : 14/06/2022 RECEIVED DATE : 17/06/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 22/06/2022  
Wet Bulb Globe Temperature (WBGT) : Serial No. TPH060001, TPI050070, TPL090017

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	22.4	22.2	21.7	21.5	22.0
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	31.1	31.1	31.5	31.7	31.3
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	32.2	32.6	32.3	32.3	32.3
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
<b>WBGT AVERAGE</b>	09:00-11:00	-	-	-	-	27.3
<b>STANDARD</b>		-	-	-	-	34.0 <sup>/1,2</sup>

**REMARK :**

Work Load = 132.60 Kcal/hr.

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003) (Light)

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsopon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2022

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