

ภาคผนวกที่ 1

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

Request No. LA66-0320

Report No. 6603-0198

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. : 00762

SAMPLING DATE : 07/03/2023

SAMPLING TIME : 09:00-09:35

RECEIVED DATE : 14/03/2023

REPORTED DATE : 22/03/2023

TESTED DATE : 14-16/03/2023

STACK DESCRIPTION

Height : 13.00 m

Diameter : 0.93 m

Temperature : 43.00 °C

Air Velocity : 19.46 m/s

Flow rate² : 12.01 m³/s

Moisture Content : 3.62 %

Type of Process : Exhaust

Type of Fuel : -

Oxygen Content : 20.90 %

Barometric Pressure : 760.75 mm.Hg

Atmospheric Temperature : 30.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:00-09:35	0.3	400	mg/m ³

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

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

Examined By.....
(MISS APIRADEE CHUEN-AROM)
(จ-003-ก-4377)
22/03/2023



Approved By.....
(MR. THONGCHAI BOONSAK)
(จ-003-ก-5618)
22/03/2023

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Request No. LA66-0320

Report No. 6603-0199

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. : 00763

SAMPLING DATE : 07/03/2023

SAMPLING TIME : 09:00-09:35

RECEIVED DATE : 14/03/2023

REPORTED DATE : 22/03/2023

TESTED DATE : 14-22/03/2023

STACK DESCRIPTION

Height : 13.00 m

Diameter : 0.93 m

Temperature : 43.00 °C

Air Velocity : 19.46 m/s

Flow rate¹ : 12.01 m³/s

Moisture Content : 3.62 %

Type of Process : Exhaust

Type of Fuel : -

Oxygen Content : 20.90 %

Barometric Pressure : 760.75 mm.Hg

Atmospheric Temperature : 30.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ¹	UNIT
Zinc as Zinc Oxide	Isokinetic, ICP-AES	09:00-09:35	3.93	mg/m ³

REMARK:

¹ DRY BASIS (25°C, 760 mm.Hg)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION
OF THE DEPARTMENT OF INDUSTRIAL WORKS
(SAMPLING BY MR. AUDOUMSUB JENJOBING)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

 Approved By Thongchai Boonsak
(MR. THONGCHAI BOONSAK)

22/03/2023

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Request No. LA66-0320

Report No. 6603-0207

TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.
ADDRESS : 38/14 Moo 5 T. Tungskula A. Sriracha, Chonburi 20230
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.
SAMPLE POINT : Hot Mill Stack (New Slab Heater) SAMPLE NO. : 00777-00779
SAMPLING DATE : 08/03/2023 SAMPLING TIME : 08:55-09:50
RECEIVED DATE : 14/03/2023 REPORTED DATE : 22/03/2023
TESTED DATE : 14-18/03/2023

STACK DESCRIPTION

Height :	30.00	m	Type of Process :	Combustion
Diameter :	2.00	m	Type of Fuel :	Natural Gas
Temperature :	221.00	°C	Operation Capacity :	6 piece /hr.
Air Velocity :	3.93	m/s	Oxygen Content :	5.15 %
Flow rate ¹² :	7.08	m ³ /s	Barometric Pressure :	760.75 mm.Hg
Moisture Content :	4.95	%	Atmospheric Temperature :	30.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.15 % O ₂	7 % O ₂		
Particulate (TSP)	Isokinetic, Gravimetric	08:55-09:50	3.4	3.0	320	mg/m ³
Sulfur Dioxide (SO ₂)	Absorption Barium Thorin Titrimetric	09:00-09:30	<3.4	<3.4 ³	157	mg/m ³
			<1.3	<1.3 ³	60	ppm
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	09:05-09:10	<2.0	<2.0 ³	376	mg/m ³
			<1.0	<1.0 ³	200	ppm

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ RESULTS OF ACTUAL %O₂

* SAMPLING BY MR. AUDOUMSUB JENJOBING (๖-003-๖-8894)

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

(๖-003-ก-4377)

22/03/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By.....
(MR. THONGCHAI BOONSACK)

(๖-003-ก-5618)

22/03/2023

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Request No. LA66-0320

Report No. 6603-0203

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. : 00769-00771
SAMPLING DATE : 08/03/2023 SAMPLING TIME : 10:00-10:40
RECEIVED DATE : 14/03/2023 REPORTED DATE : 22/03/2023
TESTED DATE : 14-18/03/2023

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 :	4.66	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ¹ :	2.23	m ³ /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	3.18	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Sulfuric Acid (H ₂ SO ₄)	Isokinetic, Titrimetric	10:00-10:40	<0.05	100	mg/m ³
			<0.01	25	ppm
Sulfur Dioxide (SO ₂)	Absorption Barium Thorin Titrimetric	10:00-10:30	<3.4	1,310	mg/m ³
			<1.3	500	ppm
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:20-10:25	<2.0	-	mg/m ³
			<1.0	-	ppm

REMARK:

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

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

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ก-4377)

22/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ก-5618)

22/03/2023

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Request No. LA66-0320

Report No. 6603-0201

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 : ปล่องกระบวนการถลุง (AP-02) SAMPLE NO. : 00765-00767
SAMPLING DATE : 07/03/2023 SAMPLING TIME : 10:00-10:40
RECEIVED DATE : 14/03/2023 REPORTED DATE : 22/03/2023
TESTED DATE : 14-18/03/2023

STACK DESCRIPTION

Height :	10.00	m	Type of Process :	Exhaust
Diameter :	0.46	m	Type of Fuel :	-
Temperature :	29.00	°C	Oxygen Content :	20.90 %
Air Velocity :	5.85	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ² :	0.93	m ³ /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.39	%		

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

REMARK:

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

* SAMPLING BY MR. AUDOUMSUB JENJOBING (๖-003-๖-8894)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(๖-003-๖-4377)

22/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(๖-003-๖-5618)

22/03/2023

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Request No. LA66-0317

Report No. 6603-0188

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. : 00751, 00753-00754
 SAMPLING DATE : 07/03/2023 SAMPLING TIME : 10:00-10:35
 RECEIVED DATE : 10/03/2023 REPORTED DATE : 20/03/2023
 TESTED DATE : 10-18/03/2023

STACK DESCRIPTION

Height :	10.00	m	Type of Process :	Wet Scrubber
Diameter :	0.70	m	Type of Fuel :	-
Temperature :	28.00	°C	Oxygen Content :	20.90 %
Air Velocity :	11.10	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ² :	4.11	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	2.91	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	10:05-10:35	<3.4 <1.3	1,310 500	mg/m ³ ppm
Sulfuric Acid (H ₂ SO ₄)	Isokinetic, Titrimetric	10:00-10:30	<0.05 <0.01	100 25	mg/m ³ ppm
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:10-10:15	5.5 2.9	- -	mg/m ³ ppm

REMARK:

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

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

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ก-4377)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSACK)

(ว-003-ก-5618)

20/03/2023

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Request No. LA66-0317

Report No. 6603-0189

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. : 00752

SAMPLING DATE : 07/03/2023

SAMPLING TIME : 10:05-10:35

RECEIVED DATE : 10/03/2023

REPORTED DATE : 20/03/2023

TESTED DATE : 10-16/03/2023

STACK DESCRIPTION

Height :	10.00	m	Type of Process :	Wet Scrubber
Diameter :	0.70	m	Type of Fuel :	-
Temperature :	28.00	°C	Oxygen Content :	20.90 %
Air Velocity :	11.10	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ¹ :	4.11	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	2.91	%		

PARAMETER *	TEST METHOD	TIME	RESULT ¹	UNIT
Nitric acid (HNO ₃)	Ion Chromatography	10:05-10:35	0.106	mg/m ³
			0.041	ppm

REMARK:¹ DRY BASIS (25°C, 760 mm.Hg)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION
OF THE DEPARTMENT OF INDUSTRIAL WORKS
(SAMPLING BY MR. WARAKORN VITAYASEWEE)



Approved By.....



(MR. THONGCHAI BOONSAK)

20/03/2023

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Request No. LA66-0320

Report No. 6603-0205

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-07)

SAMPLE NO. : 00773-00775

SAMPLING DATE : 07/03/2023

SAMPLING TIME : 10:50-11:30

RECEIVED DATE : 14/03/2023

REPORTED DATE : 22/03/2023

TESTED DATE : 14-18/03/2023

STACK DESCRIPTION

Height :	10.00	m	Type of Process :	Exhaust
Diameter :	0.67	m	Type of Fuel :	-
Temperature :	25.00	°C	Oxygen Content :	20.90 %
Air Velocity :	5.76	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ² :	1.97	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	3.24	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Sulfur Dioxide (SO ₂)	Absorption Barium Thorin Titrimetric	10:50-11:20	<3.4 <1.3	1,310 500	mg/m ³ ppm
Sulfuric Acid (H ₂ SO ₄)	Isokinetic, Titrimetric	10:50-11:30	<0.05 <0.01	100 25	mg/m ³ ppm
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:00-11:05	<2.0 <1.0	- -	mg/m ³ ppm

REMARK:

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

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

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ก-4377)

22/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ก-5618)

22/03/2023

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Request No. ATR6602001

Report No. 6602-0007 - 6602-0009

TEST REPORT

CUSTOMER : Siam Poongsan Metal Co.,LTD.
ADDRESS : 38/14 Moo 5 T. Tung Sukla A. Sriracha, Chonburi 20230
SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.
SAMPLE NAME : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.
RECEIVED DATE : 01/02/2023 SAMPLE NO. : A66020007 - A66020009
TESTED DATE : 01/02/2023-01/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	23-24/01/2023	0.192	0.33	mg/m ³
		24-25/01/2023	0.143	0.33	mg/m ³
		25-26/01/2023	0.088	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

07/02/2023

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Request No. ATR6602001

Report No. 6602-0010 - 6602-0012

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 : 01/02/2023 SAMPLE NO. : A66020010 - A66020012
 TESTED DATE : 01/02/2023-07/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	23-24/01/2023	< 0.01	mg/m ³
		24-25/01/2023	< 0.01	mg/m ³
		25-26/01/2023	< 0.01	mg/m ³

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)

07/02/2023

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Request No. ATR6603018

Report No. 6603-0407 - 6603-0409

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 : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออกของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.
RECEIVED DATE : 13/03/2023 SAMPLE NO. : A66030407 - A66030409
TESTED DATE : 13/03/2023-16/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹⁾	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	07-08/03/2023	0.168	0.33	mg/m ³
		08-09/03/2023	0.111	0.33	mg/m ³
		09-10/03/2023	0.076	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

22/03/2023

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Request No. ATR6603018

Report No. 6603-0410 - 6603-0412

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 : 13/03/2023 SAMPLE NO. : A66030410 - A66030412
TESTED DATE : 13/03/2023-20/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	07-08/03/2023	< 0.01	mg/m ³
		08-09/03/2023	< 0.01	mg/m ³
		09-10/03/2023	< 0.01	mg/m ³

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)

22/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6605075

Report No. 6605-1199 - 6605-1201

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 : 24/05/2023 SAMPLE NO. : A66051199 - A66051201
 TESTED DATE : 24/05/2023-26/05/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	15-16/05/2023	0.129	0.33	mg/m ³
		16-17/05/2023	0.109	0.33	mg/m ³
		17-18/05/2023	0.103	0.33	mg/m ³

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

05/06/2023

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

COPY

Request No. ATR6605075

Report No. 6605-1202 - 6605-1204

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 : 24/05/2023 SAMPLE NO. : A66051202 - A66051204
TESTED DATE : 24/05/2023-02/06/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	15-16/05/2023	< 0.01	mg/m ³
		16-17/05/2023	< 0.01	mg/m ³
		17-18/05/2023	< 0.01	mg/m ³

REMARK:

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



Approved By

(Miss Thanatporn Klinsohon)

05/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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COPY

Request No. ATR6602001

Report No. 6602-0001 - 6602-0003

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 NAME : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง
 RECEIVED DATE : 01/02/2023 SAMPLE NO. : A66020001 - A66020003
 TESTED DATE : 01/02/2023-01/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	23-24/01/2023	0.163	0.33	mg/m ³
		24-25/01/2023	0.125	0.33	mg/m ³
		25-26/01/2023	0.089	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

07/02/2023

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Request No. ATR6602001

Report No. 6602-0004 - 6602-0006

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 : 01/02/2023 SAMPLE NO. : A66020004 - A66020006
TESTED DATE : 01/02/2023-07/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	23-24/01/2023	0.01	mg/m ³
		24-25/01/2023	< 0.01	mg/m ³
		25-26/01/2023	0.01	mg/m ³

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 Klinsoyon)

07/02/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6603018

Report No. 6603-0401 - 6603-0403

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 : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง
 RECEIVED DATE : 13/03/2023 SAMPLE NO. : A66030401 - A66030403
 TESTED DATE : 13/03/2023-16/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	07-08/03/2023	0.161	0.33	mg/m ³
		08-09/03/2023	0.123	0.33	mg/m ³
		09-10/03/2023	0.117	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



Approved By

(Miss Thanatporn Klinsopon)

22/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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COPY

Request No. ATR6603018

Report No. 6603-0404 - 6603-0406

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 : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง
RECEIVED DATE : 13/03/2023 SAMPLE NO. : A66030404 - A66030406
TESTED DATE : 13/03/2023-20/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	07-08/03/2023	< 0.01	mg/m ³
		08-09/03/2023	< 0.01	mg/m ³
		09-10/03/2023	< 0.01	mg/m ³

REMARK:

* 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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WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By

(Miss Thanatporn Klinsoon)

22/03/2023

COPY

Request No. ATR6605075

Report No. 6605-1205 - 6605-1207

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 : 24/05/2023 SAMPLE NO. : A66051205 - A66051207
 TESTED DATE : 24/05/2023-26/05/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹⁾	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	15-16/05/2023	0.085	0.33	mg/m ³
		16-17/05/2023	0.067	0.33	mg/m ³
		17-18/05/2023	0.070	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

05/06/2023

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Request No. ATR6605075

Report No. 6605-1208 - 6605-1210

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 : 24/05/2023 SAMPLE NO. : A66051208 - A66051210
 TESTED DATE : 24/05/2023-02/06/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	15-16/05/2023	< 0.01	mg/m ³
		16-17/05/2023	< 0.01	mg/m ³
		17-18/05/2023	< 0.01	mg/m ³

REMARK:

* 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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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By



(Miss Thanatporn Klinsoon)

05/06/2023

COPY

Request No. ATR6602001

Report No. 6602-0013 - 6602-0015

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 : 01/02/2023 SAMPLE NO. : A66020013 - A66020015
TESTED DATE : 01/02/2023-01/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	23-24/01/2023	0.163	0.33	mg/m ³
		24-25/01/2023	0.132	0.33	mg/m ³
		25-26/01/2023	0.144	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Approved By

(Miss Thanatporn Klinsopon)

07/02/2023

COPY

Request No. ATR6602001

Report No. 6602-0016 - 6602-0018

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 : 01/02/2023 SAMPLE NO. : A66020016 - A66020018
TESTED DATE : 01/02/2023-07/02/2023 REPORTED DATE : 07/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	23-24/01/2023	< 0.01	mg/m ³
		24-25/01/2023	< 0.01	mg/m ³
		25-26/01/2023	< 0.01	mg/m ³

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)

07/02/2023

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

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Request No. ATR6603018

Report No. 6603-0413 - 6603-0415

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 : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.
RECEIVED DATE : 13/03/2023 SAMPLE NO. : A66030413 - A66030415
TESTED DATE : 13/03/2023-16/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	07-08/03/2023	0.136	0.33	mg/m ³
		08-09/03/2023	0.115	0.33	mg/m ³
		09-10/03/2023	0.101	0.33	mg/m ³

REMARK:

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

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

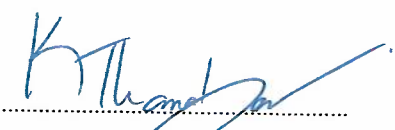
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Approved By



(Miss Thanatporn Klinsonpon)

22/03/2023

COPY

Request No. ATR6603018

Report No. 6603-0416 - 6603-0418

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 : 13/03/2023 SAMPLE NO. : A66030416 - A66030418
TESTED DATE : 13/03/2023-20/03/2023 REPORTED DATE : 22/03/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	07-08/03/2023	< 0.01	mg/m ³
		08-09/03/2023	< 0.01	mg/m ³
		09-10/03/2023	< 0.01	mg/m ³

REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



Approved By

(Miss Thanatporn Klinsopon)

22/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6605075

Report No. 6605-1211 - 6605-1213

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 : 24/05/2023 SAMPLE NO. : A66051211 - A66051213
 TESTED DATE : 24/05/2023-26/05/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	15-16/05/2023	0.071	0.33	mg/m ³
		16-17/05/2023	0.062	0.33	mg/m ³
		17-18/05/2023	0.058	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

05/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6605075

Report No. 6605-1214 - 6605-1216

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 : 24/05/2023 SAMPLE NO. : A66051214 - A66051216
 TESTED DATE : 24/05/2023-02/06/2023 REPORTED DATE : 05/06/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc Oxide	Filtration,ICP-OES Method	15-16/05/2023	< 0.01	mg/m ³
		16-17/05/2023	< 0.01	mg/m ³
		17-18/05/2023	< 0.01	mg/m ³

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)

05/06/2023

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

Request No. LA66-R0123

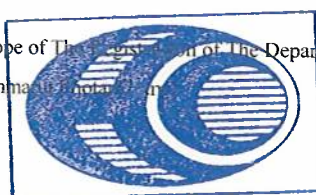
Report No. R6601-0659 - R6601-0661

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 6758

SAMPLE NO. : 00672-00674
 SAMPLING DATE : 23-26/01/2023
 RECEIVED DATE : 26/01/2023
 REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
10:00 - 11:00 ^{1/2}	0.014	0.027	0.024	ppm
11:00 - 12:00	0.013	0.019	0.022	ppm
12:00 - 13:00	0.014	0.016	0.017	ppm
13:00 - 14:00	0.017	0.016	0.015	ppm
14:00 - 15:00	0.016	0.017	0.015	ppm
15:00 - 16:00	0.019	0.015	0.023	ppm
16:00 - 17:00	0.021	0.017	0.021	ppm
17:00 - 18:00	0.028	0.028	0.025	ppm
18:00 - 19:00	0.037	0.019	0.037	ppm
19:00 - 20:00	0.048	0.023	0.040	ppm
20:00 - 21:00	0.032	0.026	0.025	ppm
21:00 - 22:00	0.023	0.033	0.032	ppm
22:00 - 23:00	0.020	0.024	0.027	ppm
23:00 - 00:00	0.015	0.014	0.029	ppm
00:00 - 01:00	0.017	0.013	0.021	ppm
01:00 - 02:00	0.016	0.011	0.016	ppm
02:00 - 03:00	0.012	0.010	0.018	ppm
03:00 - 04:00	0.009	0.010	0.017	ppm
04:00 - 05:00	0.008	0.004	0.012	ppm
05:00 - 06:00	0.012	0.009	0.009	ppm
06:00 - 07:00	0.010	0.011	0.009	ppm
07:00 - 08:00	0.019	0.014	0.013	ppm
08:00 - 09:00	0.046	0.017	0.011	ppm
09:00 - 10:00	0.037	0.018	0.020	ppm
Maximum 1 hr.	0.048	0.033	0.040	ppm
Average 24 hr.	0.021	0.017	0.021	ppm
Standard (1 hr.) ^{1/1}	0.17	0.17	0.17	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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COPY

Request No. LA66-R0333

Report No. R6603-0703 - R6603-0705

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 SAMPLE NO. : 02634-02636
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 07-10/03/2023
 INSTRUMENT : API Model T200 S/N 6757 RECEIVED DATE : 10/03/2023
 REPORTED DATE : 14/03/2023

TIME / DATE	07-08/03/2023	08-09/03/2023	09-10/03/2023	UNIT
10:00 - 11:00 ²	0.016	0.031	0.031	ppm
11:00 - 12:00	0.014	0.029	0.032	ppm
12:00 - 13:00	0.018	0.024	0.029	ppm
13:00 - 14:00	0.018	0.023	0.027	ppm
14:00 - 15:00	0.013	0.016	0.024	ppm
15:00 - 16:00	0.013	0.015	0.022	ppm
16:00 - 17:00	0.018	0.019	0.023	ppm
17:00 - 18:00	0.029	0.026	0.028	ppm
18:00 - 19:00	0.046	0.040	0.036	ppm
19:00 - 20:00	0.046	0.041	0.036	ppm
20:00 - 21:00	0.059	0.044	0.036	ppm
21:00 - 22:00	0.066	0.047	0.036	ppm
22:00 - 23:00	0.048	0.039	0.035	ppm
23:00 - 00:00	0.040	0.027	0.026	ppm
00:00 - 01:00	0.039	0.026	0.023	ppm
01:00 - 02:00	0.038	0.022	0.021	ppm
02:00 - 03:00	0.033	0.021	0.017	ppm
03:00 - 04:00	0.029	0.019	0.018	ppm
04:00 - 05:00	0.038	0.020	0.020	ppm
05:00 - 06:00	0.041	0.022	0.022	ppm
06:00 - 07:00	0.039	0.025	0.026	ppm
07:00 - 08:00	0.038	0.027	0.028	ppm
08:00 - 09:00	0.045	0.029	0.032	ppm
09:00 - 10:00	0.041	0.029	0.031	ppm
Maximum 1 hr.	0.066	0.047	0.036	ppm
Average 24 hr.	0.034	0.027	0.027	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

(MS. THANATPORN KLINSOPON)

14/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0589

Report No. R6605-3422 - R6605-3424

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. : 10596-10598
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 15-18/05/2023
 INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM RECEIVED DATE : 18/05/2023
 REPORTED DATE : 26/05/2023

TIME / DATE	15-16/05/2023	16-17/05/2023	17-18/05/2023	UNIT
10:00 - 11:00 ²	0.034	0.025	0.021	ppm
11:00 - 12:00	0.034	0.020	0.017	ppm
12:00 - 13:00	0.026	0.013	0.017	ppm
13:00 - 14:00	0.017	0.015	0.017	ppm
14:00 - 15:00	0.015	0.012	0.016	ppm
15:00 - 16:00	0.014	0.010	0.014	ppm
16:00 - 17:00	0.013	0.009	0.015	ppm
17:00 - 18:00	0.013	0.009	0.015	ppm
18:00 - 19:00	0.012	0.009	0.014	ppm
19:00 - 20:00	0.012	0.009	0.012	ppm
20:00 - 21:00	0.011	0.010	0.013	ppm
21:00 - 22:00	0.012	0.012	0.018	ppm
22:00 - 23:00	0.014	0.015	0.024	ppm
23:00 - 00:00	0.015	0.017	0.016	ppm
00:00 - 01:00	0.015	0.019	0.013	ppm
01:00 - 02:00	0.014	0.024	0.015	ppm
02:00 - 03:00	0.014	0.025	0.011	ppm
03:00 - 04:00	0.015	0.024	0.011	ppm
04:00 - 05:00	0.019	0.024	0.015	ppm
05:00 - 06:00	0.021	0.022	0.015	ppm
06:00 - 07:00	0.020	0.027	0.018	ppm
07:00 - 08:00	0.019	0.027	0.021	ppm
08:00 - 09:00	0.020	0.041	0.021	ppm
09:00 - 10:00	0.021	0.029	0.024	ppm
Maximum 1 hr.	0.034	0.041	0.024	ppm
Average 24 hr.	0.017	0.019	0.016	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

(MS. THANATPORN KLINSOPON)

26/05/2023

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

COPY

Request No. LA66-R0123

Report No. R6601-0671 - R6601-0673

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 7874

SAMPLE NO. : 00684-00686
SAMPLING DATE : 23-26/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
09:00 - 10:00 ²	0.023	0.038	0.020	ppm
10:00 - 11:00	0.024	0.017	0.023	ppm
11:00 - 12:00	0.020	0.014	0.018	ppm
12:00 - 13:00	0.037	0.011	0.012	ppm
13:00 - 14:00	0.027	0.009	0.036	ppm
14:00 - 15:00	0.035	0.009	0.037	ppm
15:00 - 16:00	0.027	0.011	0.020	ppm
16:00 - 17:00	0.029	0.049	0.032	ppm
17:00 - 18:00	0.029	0.035	0.018	ppm
18:00 - 19:00	0.047	0.038	0.023	ppm
19:00 - 20:00	0.044	0.035	0.031	ppm
20:00 - 21:00	0.037	0.033	0.030	ppm
21:00 - 22:00	0.023	0.027	0.029	ppm
22:00 - 23:00	0.023	0.015	0.019	ppm
23:00 - 00:00	0.017	0.011	0.016	ppm
00:00 - 01:00	0.013	0.008	0.016	ppm
01:00 - 02:00	0.024	0.007	0.022	ppm
02:00 - 03:00	0.025	0.008	0.033	ppm
03:00 - 04:00	0.026	0.008	0.037	ppm
04:00 - 05:00	0.019	0.009	0.032	ppm
05:00 - 06:00	0.011	0.010	0.030	ppm
06:00 - 07:00	0.020	0.010	0.031	ppm
07:00 - 08:00	0.031	0.013	0.045	ppm
08:00 - 09:00	0.036	0.017	0.043	ppm
Maximum 1 hr.	0.047	0.049	0.045	ppm
Average 24 hr.	0.027	0.018	0.027	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

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



Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA66-R0333

Report No. R6603-0709 - R6603-0711

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 7875

SAMPLE NO. : 02640-02642
SAMPLING DATE : 07-10/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 14/03/2023

TIME / DATE	07-08/03/2023	08-09/03/2023	09-10/03/2023	UNIT
10:00 - 11:00 ²	0.023	0.022	0.014	ppm
11:00 - 12:00	0.021	0.025	0.020	ppm
12:00 - 13:00	0.021	0.015	0.016	ppm
13:00 - 14:00	0.015	0.015	0.011	ppm
14:00 - 15:00	0.015	0.014	0.024	ppm
15:00 - 16:00	0.015	0.013	0.021	ppm
16:00 - 17:00	0.015	0.012	0.003	ppm
17:00 - 18:00	0.018	0.016	0.020	ppm
18:00 - 19:00	0.029	0.018	0.028	ppm
19:00 - 20:00	0.039	0.023	0.006	ppm
20:00 - 21:00	0.041	0.027	0.005	ppm
21:00 - 22:00	0.042	0.037	0.010	ppm
22:00 - 23:00	0.035	0.031	0.009	ppm
23:00 - 00:00	0.025	0.022	0.007	ppm
00:00 - 01:00	0.022	0.026	0.006	ppm
01:00 - 02:00	0.029	0.025	0.006	ppm
02:00 - 03:00	0.026	0.026	0.007	ppm
03:00 - 04:00	0.026	0.024	0.008	ppm
04:00 - 05:00	0.027	0.016	0.006	ppm
05:00 - 06:00	0.042	0.014	0.005	ppm
06:00 - 07:00	0.044	0.019	0.006	ppm
07:00 - 08:00	0.047	0.027	0.008	ppm
08:00 - 09:00	0.051	0.032	0.006	ppm
09:00 - 10:00	0.024	0.025	0.016	ppm
Maximum 1 hr.	0.051	0.037	0.028	ppm
Average 24 hr.	0.029	0.022	0.011	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

14/03/2023

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Request No. LA66-R0589

Report No. R6603428 - R6605-3430

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 2005

SAMPLE NO. : 10602-10604
SAMPLING DATE : 15-18/05/2023
RECEIVED DATE : 18/05/2023
REPORTED DATE : 26/05/2023

TIME / DATE	15-16/05/2023	16-17/05/2023	17-18/05/2023	UNIT
10:00 - 11:00 ²	0.027	0.046	0.038	ppm
11:00 - 12:00	0.015	0.039	0.027	ppm
12:00 - 13:00	0.017	0.031	0.021	ppm
13:00 - 14:00	0.016	0.020	0.017	ppm
14:00 - 15:00	0.014	0.015	0.017	ppm
15:00 - 16:00	0.019	0.016	0.014	ppm
16:00 - 17:00	0.027	0.017	0.017	ppm
17:00 - 18:00	0.033	0.017	0.016	ppm
18:00 - 19:00	0.034	0.016	0.020	ppm
19:00 - 20:00	0.042	0.020	0.025	ppm
20:00 - 21:00	0.042	0.030	0.055	ppm
21:00 - 22:00	0.042	0.034	0.052	ppm
22:00 - 23:00	0.027	0.026	0.031	ppm
23:00 - 00:00	0.018	0.021	0.015	ppm
00:00 - 01:00	0.016	0.017	0.012	ppm
01:00 - 02:00	0.015	0.014	0.010	ppm
02:00 - 03:00	0.016	0.013	0.011	ppm
03:00 - 04:00	0.018	0.012	0.010	ppm
04:00 - 05:00	0.020	0.011	0.009	ppm
05:00 - 06:00	0.021	0.013	0.008	ppm
06:00 - 07:00	0.019	0.012	0.008	ppm
07:00 - 08:00	0.020	0.014	0.009	ppm
08:00 - 09:00	0.027	0.021	0.013	ppm
09:00 - 10:00	0.039	0.034	0.022	ppm
Maximum 1 hr.	0.042	0.046	0.055	ppm
Average 24 hr.	0.024	0.021	0.020	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

26/05/2023

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Request No. LA66-R0123

Report No. R6601-0665 - R6601-0667

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 T200 S/N 2005

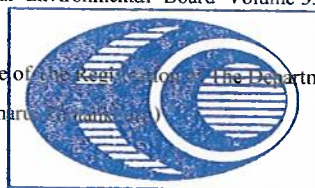
SAMPLE NO. : 00678-00680
 SAMPLING DATE : 23-26/01/2023
 RECEIVED DATE : 26/01/2023
 REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
11:00 - 12:00 ²	0.022	0.015	0.009	ppm
12:00 - 13:00	0.036	0.016	0.010	ppm
13:00 - 14:00	0.038	0.009	0.011	ppm
14:00 - 15:00	0.041	0.012	0.012	ppm
15:00 - 16:00	0.042	0.013	0.018	ppm
16:00 - 17:00	0.043	0.015	0.019	ppm
17:00 - 18:00	0.033	0.024	0.019	ppm
18:00 - 19:00	0.028	0.049	0.025	ppm
19:00 - 20:00	0.027	0.051	0.035	ppm
20:00 - 21:00	0.021	0.034	0.034	ppm
21:00 - 22:00	0.029	0.021	0.032	ppm
22:00 - 23:00	0.039	0.019	0.030	ppm
23:00 - 00:00	0.041	0.010	0.016	ppm
00:00 - 01:00	0.028	0.007	0.015	ppm
01:00 - 02:00	0.040	0.005	0.018	ppm
02:00 - 03:00	0.041	0.005	0.023	ppm
03:00 - 04:00	0.039	0.006	0.030	ppm
04:00 - 05:00	0.044	0.006	0.036	ppm
05:00 - 06:00	0.039	0.008	0.036	ppm
06:00 - 07:00	0.036	0.008	0.029	ppm
07:00 - 08:00	0.050	0.011	0.053	ppm
08:00 - 09:00	0.052	0.012	0.055	ppm
09:00 - 10:00	0.044	0.015	0.044	ppm
10:00 - 11:00	0.020	0.010	0.023	ppm
Maximum 1 hr.	0.052	0.051	0.055	ppm
Average 24 hr.	0.036	0.016	0.026	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

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

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Request No. LA66-R0333

Report No. R6603-0697 - R6603-0699

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 : บริเวณเขตรุกิจการค้าของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.
 PARAMETER* : Nitrogen Dioxide SAMPLE NO. : 02628-02630
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 07-10/03/2023
 INSTRUMENT : API Model M200E S/N 3998 RECEIVED DATE : 10/03/2023
 REPORTED DATE : 14/03/2023

TIME / DATE	07-08/03/2023	08-09/03/2023	09-10/03/2023	UNIT
10:00 - 11:00 ²	0.021	0.017	0.030	ppm
11:00 - 12:00	0.015	0.017	0.037	ppm
12:00 - 13:00	0.014	0.020	0.044	ppm
13:00 - 14:00	0.019	0.029	0.031	ppm
14:00 - 15:00	0.011	0.032	0.031	ppm
15:00 - 16:00	0.011	0.032	0.027	ppm
16:00 - 17:00	0.012	0.031	0.020	ppm
17:00 - 18:00	0.012	0.037	0.021	ppm
18:00 - 19:00	0.011	0.039	0.025	ppm
19:00 - 20:00	0.011	0.040	0.024	ppm
20:00 - 21:00	0.011	0.016	0.027	ppm
21:00 - 22:00	0.011	0.024	0.028	ppm
22:00 - 23:00	0.011	0.015	0.023	ppm
23:00 - 00:00	0.011	0.027	0.023	ppm
00:00 - 01:00	0.017	0.024	0.020	ppm
01:00 - 02:00	0.014	0.030	0.018	ppm
02:00 - 03:00	0.017	0.027	0.017	ppm
03:00 - 04:00	0.015	0.034	0.017	ppm
04:00 - 05:00	0.015	0.041	0.025	ppm
05:00 - 06:00	0.011	0.040	0.031	ppm
06:00 - 07:00	0.018	0.040	0.014	ppm
07:00 - 08:00	0.011	0.044	0.016	ppm
08:00 - 09:00	0.022	0.045	0.014	ppm
09:00 - 10:00	0.013	0.040	0.013	ppm
Maximum 1 hr.	0.022	0.045	0.044	ppm
Average 24 hr.	0.014	0.031	0.024	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

14/03/2023

บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด
 REPORTED TEST RESULT TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA66-R0589

Report No. R6605-3434 - R6605-3436

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 : บริเวณเขตรูถักการถักของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.
PARAMETER* : Nitrogen Dioxide SAMPLE NO. : 10608-10610
DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 15-18/05/2023
INSTRUMENT : API Model M200E S/N 3999 RECEIVED DATE : 18/05/2023
REPORTED DATE : 26/05/2023

TIME / DATE	15-16/05/2023	16-17/05/2023	17-18/05/2023	UNIT
11:00 - 12:00 ²	0.020	0.022	0.019	ppm
12:00 - 13:00	0.016	0.019	0.021	ppm
13:00 - 14:00	0.010	0.017	0.024	ppm
14:00 - 15:00	0.012	0.017	0.021	ppm
15:00 - 16:00	0.010	0.016	0.018	ppm
16:00 - 17:00	0.015	0.017	0.018	ppm
17:00 - 18:00	0.024	0.019	0.021	ppm
18:00 - 19:00	0.031	0.030	0.033	ppm
19:00 - 20:00	0.019	0.032	0.032	ppm
20:00 - 21:00	0.017	0.023	0.026	ppm
21:00 - 22:00	0.015	0.017	0.017	ppm
22:00 - 23:00	0.012	0.013	0.012	ppm
23:00 - 00:00	0.010	0.014	0.013	ppm
00:00 - 01:00	0.009	0.011	0.010	ppm
01:00 - 02:00	0.008	0.010	0.012	ppm
02:00 - 03:00	0.009	0.014	0.013	ppm
03:00 - 04:00	0.006	0.018	0.011	ppm
04:00 - 05:00	0.005	0.014	0.006	ppm
05:00 - 06:00	0.010	0.009	0.007	ppm
06:00 - 07:00	0.013	0.012	0.013	ppm
07:00 - 08:00	0.028	0.020	0.018	ppm
08:00 - 09:00	0.027	0.024	0.014	ppm
09:00 - 10:00	0.025	0.021	0.018	ppm
10:00 - 11:00	0.029	0.019	0.019	ppm
Maximum 1 hr.	0.031	0.032	0.033	ppm
Average 24 hr.	0.016	0.018	0.017	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

26/05/2023

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



Request No. LA66-R0123

Report No. R6601-0656 - R6601-0658

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
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 1608

SAMPLE NO. : 00669-00671
SAMPLING DATE : 23-26/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
10:00 - 11:00 ³	0.004	0.003	0.004	ppm
11:00 - 12:00	0.004	0.003	0.005	ppm
12:00 - 13:00	0.003	0.004	0.005	ppm
13:00 - 14:00	0.005	0.004	0.005	ppm
14:00 - 15:00	0.004	0.004	0.005	ppm
15:00 - 16:00	0.004	0.004	0.005	ppm
16:00 - 17:00	0.003	0.004	0.004	ppm
17:00 - 18:00	0.003	0.004	0.004	ppm
18:00 - 19:00	0.003	0.005	0.004	ppm
19:00 - 20:00	0.004	0.004	0.005	ppm
20:00 - 21:00	0.004	0.005	0.005	ppm
21:00 - 22:00	0.003	0.005	0.005	ppm
22:00 - 23:00	0.003	0.004	0.005	ppm
23:00 - 00:00	0.002	0.003	0.005	ppm
00:00 - 01:00	0.004	0.004	0.005	ppm
01:00 - 02:00	0.003	0.004	0.006	ppm
02:00 - 03:00	0.003	0.004	0.005	ppm
03:00 - 04:00	0.003	0.004	0.006	ppm
04:00 - 05:00	0.004	0.005	0.006	ppm
05:00 - 06:00	0.004	0.004	0.005	ppm
06:00 - 07:00	0.004	0.003	0.005	ppm
07:00 - 08:00	0.004	0.004	0.005	ppm
08:00 - 09:00	0.004	0.004	0.005	ppm
09:00 - 10:00	0.003	0.004	0.005	ppm
Maximum 1 hr.	0.005	0.005	0.006	ppm
Average 24 hr.	0.004	0.004	0.005	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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COPY

Request No. LA66-R0333

Report No. R6603-0700 - R6603-0702

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. : 02631-02633
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 07-10/03/2023
 INSTRUMENT : API Model M100E S/N 603 RECEIVED DATE : 10/03/2023
 REPORTED DATE : 14/03/2023

TIME / DATE	07-08/03/2023	08-09/03/2023	09-10/03/2023	UNIT
10:00 - 11:00 ³	0.030	0.030	0.030	ppm
11:00 - 12:00	0.034	0.030	0.030	ppm
12:00 - 13:00	0.028	0.031	0.030	ppm
13:00 - 14:00	0.029	0.030	0.030	ppm
14:00 - 15:00	0.030	0.031	0.030	ppm
15:00 - 16:00	0.030	0.031	0.030	ppm
16:00 - 17:00	0.030	0.031	0.030	ppm
17:00 - 18:00	0.030	0.031	0.030	ppm
18:00 - 19:00	0.030	0.031	0.030	ppm
19:00 - 20:00	0.030	0.030	0.030	ppm
20:00 - 21:00	0.030	0.030	0.030	ppm
21:00 - 22:00	0.030	0.031	0.030	ppm
22:00 - 23:00	0.030	0.030	0.030	ppm
23:00 - 00:00	0.030	0.030	0.030	ppm
00:00 - 01:00	0.030	0.030	0.030	ppm
01:00 - 02:00	0.030	0.030	0.030	ppm
02:00 - 03:00	0.030	0.030	0.030	ppm
03:00 - 04:00	0.030	0.030	0.030	ppm
04:00 - 05:00	0.031	0.030	0.030	ppm
05:00 - 06:00	0.031	0.030	0.030	ppm
06:00 - 07:00	0.031	0.030	0.030	ppm
07:00 - 08:00	0.032	0.031	0.030	ppm
08:00 - 09:00	0.031	0.031	0.030	ppm
09:00 - 10:00	0.031	0.031	0.030	ppm
Maximum 1 hr.	0.034	0.031	0.030	ppm
Average 24 hr.	0.030	0.030	0.030	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

14/03/2023

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

COPY

Request No. LA66-R0589

Report No. R6605-3419 - R6605-3421

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. : 10593-10595
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 15-18/05/2023
 INSTRUMENT : Horiba Model APSA-370 S/N 3XLWFYVJ RECEIVED DATE : 18/05/2023
 REPORTED DATE : 26/05/2023

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

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

Approved By.....

(MS. THANATPORN KLINSOPON)

26/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0123

Report No. R6601-0668 - R6601-0670

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 3137

SAMPLE NO. : 00681-00683
SAMPLING DATE : 23-26/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
09:00 - 10:00 ^{1/3}	0.005	0.006	0.006	ppm
10:00 - 11:00	0.004	0.006	0.007	ppm
11:00 - 12:00	0.005	0.007	0.006	ppm
12:00 - 13:00	0.007	0.007	0.006	ppm
13:00 - 14:00	0.008	0.007	0.007	ppm
14:00 - 15:00	0.008	0.007	0.006	ppm
15:00 - 16:00	0.007	0.007	0.007	ppm
16:00 - 17:00	0.006	0.007	0.006	ppm
17:00 - 18:00	0.005	0.007	0.006	ppm
18:00 - 19:00	0.005	0.007	0.006	ppm
19:00 - 20:00	0.004	0.006	0.006	ppm
20:00 - 21:00	0.004	0.006	0.006	ppm
21:00 - 22:00	0.005	0.006	0.006	ppm
22:00 - 23:00	0.004	0.005	0.006	ppm
23:00 - 00:00	0.005	0.005	0.006	ppm
00:00 - 01:00	0.005	0.005	0.006	ppm
01:00 - 02:00	0.005	0.005	0.006	ppm
02:00 - 03:00	0.004	0.005	0.006	ppm
03:00 - 04:00	0.005	0.005	0.006	ppm
04:00 - 05:00	0.005	0.005	0.006	ppm
05:00 - 06:00	0.005	0.005	0.006	ppm
06:00 - 07:00	0.006	0.005	0.007	ppm
07:00 - 08:00	0.006	0.006	0.007	ppm
08:00 - 09:00	0.006	0.006	0.006	ppm
Maximum 1 hr.	0.008	0.007	0.007	ppm
Average 24 hr.	0.005	0.006	0.006	ppm
Standard (1 hr.) ^{1/}	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ^{2/}	0.12	0.12	0.12	ppm

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

* Parameter Outside The Scope of The Regulation, Department of Industrial Works
(Measurement By Mr. Tummarut Ph...



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0333

Report No. R6603-0706 - R6603-0708

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 : บริเวณ ใกล้ทางเข้าออกภายใน โรงงานหลอมทองเหลือง
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3220

SAMPLE NO. : 02637-02639
SAMPLING DATE : 07-10/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 14/03/2023

TIME / DATE	07-08/03/2023	08-09/03/2023	09-10/03/2023	UNIT
10:00 - 11:00 ^{1/3}	0.004	0.004	0.003	ppm
11:00 - 12:00	0.006	0.004	0.003	ppm
12:00 - 13:00	0.007	0.004	0.004	ppm
13:00 - 14:00	0.005	0.004	0.003	ppm
14:00 - 15:00	0.004	0.004	0.003	ppm
15:00 - 16:00	0.004	0.004	0.004	ppm
16:00 - 17:00	0.005	0.004	0.004	ppm
17:00 - 18:00	0.005	0.004	0.004	ppm
18:00 - 19:00	0.005	0.004	0.004	ppm
19:00 - 20:00	0.004	0.004	0.004	ppm
20:00 - 21:00	0.004	0.004	0.003	ppm
21:00 - 22:00	0.004	0.004	0.004	ppm
22:00 - 23:00	0.004	0.004	0.003	ppm
23:00 - 00:00	0.004	0.003	0.004	ppm
00:00 - 01:00	0.004	0.004	0.004	ppm
01:00 - 02:00	0.004	0.003	0.003	ppm
02:00 - 03:00	0.004	0.004	0.004	ppm
03:00 - 04:00	0.004	0.003	0.003	ppm
04:00 - 05:00	0.004	0.003	0.004	ppm
05:00 - 06:00	0.004	0.004	0.003	ppm
06:00 - 07:00	0.004	0.004	0.004	ppm
07:00 - 08:00	0.005	0.004	0.004	ppm
08:00 - 09:00	0.004	0.004	0.004	ppm
09:00 - 10:00	0.004	0.004	0.003	ppm
Maximum 1 hr.	0.007	0.004	0.004	ppm
Average 24 hr.	0.004	0.004	0.004	ppm
Standard (1 hr.) ^{1/}	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ^{2/}	0.12	0.12	0.12	ppm

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

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



Approved By.....
(MS. THANATPORN KLINSOPON)

14/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA66-R0589

Report No. R6605-3425 - R6605-3427

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 603

SAMPLE NO. : 10599-10601
 SAMPLING DATE : 15-18/05/2023
 RECEIVED DATE : 18/05/2023
 REPORTED DATE : 26/05/2023

TIME / DATE	15-16/05/2023	16-17/05/2023	17-18/05/2023	UNIT
10:00 - 11:00 ³	0.031	0.031	0.032	ppm
11:00 - 12:00	0.031	0.031	0.031	ppm
12:00 - 13:00	0.031	0.031	0.043	ppm
13:00 - 14:00	0.032	0.032	0.029	ppm
14:00 - 15:00	0.029	0.032	0.028	ppm
15:00 - 16:00	0.031	0.032	0.035	ppm
16:00 - 17:00	0.031	0.032	0.026	ppm
17:00 - 18:00	0.031	0.033	0.024	ppm
18:00 - 19:00	0.031	0.033	0.032	ppm
19:00 - 20:00	0.032	0.033	0.013	ppm
20:00 - 21:00	0.032	0.033	0.012	ppm
21:00 - 22:00	0.032	0.032	0.011	ppm
22:00 - 23:00	0.032	0.032	0.010	ppm
23:00 - 00:00	0.032	0.032	0.010	ppm
00:00 - 01:00	0.032	0.032	0.010	ppm
01:00 - 02:00	0.032	0.032	0.011	ppm
02:00 - 03:00	0.032	0.032	0.015	ppm
03:00 - 04:00	0.032	0.032	0.018	ppm
04:00 - 05:00	0.032	0.032	0.020	ppm
05:00 - 06:00	0.032	0.032	0.021	ppm
06:00 - 07:00	0.032	0.032	0.022	ppm
07:00 - 08:00	0.032	0.032	0.024	ppm
08:00 - 09:00	0.032	0.032	0.025	ppm
09:00 - 10:00	0.031	0.032	0.025	ppm
Maximum 1 hr.	0.032	0.033	0.043	ppm
Average 24 hr.	0.031	0.032	0.022	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

26/05/2023

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

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Request No. LA66-R0123

Report No. R6601-0662 - R6601-0664

TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.
 ADDRESS : 38/14 Moo 5 T. Tungskula 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 : Environnement SA. Model AF22e S/N 913

SAMPLE NO. : 00675-00677
 SAMPLING DATE : 23-26/01/2023
 RECEIVED DATE : 26/01/2023
 REPORTED DATE : 31/01/2023

TIME / DATE	23-24/01/2023	24-25/01/2023	25-26/01/2023	UNIT
11:00 - 12:00 ³	0.011	0.016	0.008	ppm
12:00 - 13:00	0.016	0.015	0.005	ppm
13:00 - 14:00	0.014	0.013	0.009	ppm
14:00 - 15:00	0.010	0.008	0.011	ppm
15:00 - 16:00	0.010	0.005	0.011	ppm
16:00 - 17:00	0.010	0.007	0.013	ppm
17:00 - 18:00	0.010	0.011	0.014	ppm
18:00 - 19:00	0.010	0.013	0.008	ppm
19:00 - 20:00	0.010	0.019	0.019	ppm
20:00 - 21:00	0.010	0.020	0.020	ppm
21:00 - 22:00	0.010	0.020	0.020	ppm
22:00 - 23:00	0.010	0.010	0.020	ppm
23:00 - 00:00	0.010	0.010	0.012	ppm
00:00 - 01:00	0.009	0.011	0.010	ppm
01:00 - 02:00	0.010	0.010	0.010	ppm
02:00 - 03:00	0.010	0.010	0.010	ppm
03:00 - 04:00	0.008	0.009	0.009	ppm
04:00 - 05:00	0.009	0.013	0.011	ppm
05:00 - 06:00	0.013	0.013	0.005	ppm
06:00 - 07:00	0.014	0.017	0.006	ppm
07:00 - 08:00	0.015	0.014	0.006	ppm
08:00 - 09:00	0.011	0.015	0.006	ppm
09:00 - 10:00	0.017	0.017	0.005	ppm
10:00 - 11:00	0.015	0.011	0.009	ppm
Maximum 1 hr.	0.017	0.020	0.020	ppm
Average 24 hr.	0.011	0.013	0.011	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

REMARK :

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

31/01/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA66-R0333

Report No. R6603-0694 - R6603-0696

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. : 02625-02627
DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 07-10/03/2023
INSTRUMENT : API Model M100E S/N 640 RECEIVED DATE : 10/03/2023
REPORTED DATE : 14/03/2023

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

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

Approved By.....

(MS. THANATPORN KLINSOPON)

14/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA66-R0589

Report No. R6605-3431 - R6605-3433

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 : บริเวณเขตรถจักรยานยนต์ของนิคมอุตสาหกรรมแหลมฉบังห่างประมาณ 0.5 กม.
 PARAMETER* : Sulfur Dioxide SAMPLE NO. : 10605-10607
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 15-18/05/2023
 INSTRUMENT : API Model T100 S/N 1608 RECEIVED DATE : 18/05/2023
 REPORTED DATE : 26/05/2023

TIME / DATE	15-16/05/2023	16-17/05/2023	17-18/05/2023	UNIT
11:00 - 12:00 ³	0.001	0.001	0.001	ppm
12:00 - 13:00	0.001	0.001	0.001	ppm
13:00 - 14:00	0.001	0.002	0.002	ppm
14:00 - 15:00	0.001	<0.001	0.002	ppm
15:00 - 16:00	0.001	<0.001	0.002	ppm
16:00 - 17:00	<0.001	<0.001	0.002	ppm
17:00 - 18:00	0.001	<0.001	<0.001	ppm
18:00 - 19:00	<0.001	0.002	0.001	ppm
19:00 - 20:00	0.001	0.002	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	0.002	<0.001	<0.001	ppm
05:00 - 06:00	0.001	<0.001	<0.001	ppm
06:00 - 07:00	0.001	<0.001	0.001	ppm
07:00 - 08:00	<0.001	0.001	0.001	ppm
08:00 - 09:00	0.001	0.001	0.001	ppm
09:00 - 10:00	0.001	0.001	<0.001	ppm
10:00 - 11:00	<0.001	0.002	<0.001	ppm
Maximum 1 hr.	0.002	0.002	0.002	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) ¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ²	0.12	0.12	0.12	ppm

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

Approved By.....

(MS. THANATPORN KLINSOPON)

26/05/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY



Wind Speed & Wind Direction

Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

Sample No. 00688

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : January 23-26, 2023

Time	January 23-24, 2023		January 24-25, 2023		January 25-26, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	NNW	1.8	NE	1.8	SE
11:00-12:00	0.9	N	2.7	ENE	1.8	SSE
12:00-13:00	0.9	ENE	3.1	E	1.3	SSE
13:00-14:00	2.2	WNW	2.2	E	1.3	SE
14:00-15:00	2.2	WNW	1.8	ESE	1.8	SSE
15:00-16:00	2.2	W	1.8	ESE	1.8	SSE
16:00-17:00	1.8	WNW	1.8	E	1.8	ESE
17:00-18:00	0.9	W	0.9	ESE	1.3	SE
18:00-19:00	0.4	SW	0.0	-	1.3	SSE
19:00-20:00	0.0	-	0.0	-	0.9	SE
20:00-21:00	0.0	-	0.0	-	0.9	E
21:00-22:00	0.0	-	0.0	-	0.9	SE
22:00-23:00	0.0	-	1.3	E	1.3	SE
23:00-00:00	0.0	-	2.2	ESE	1.3	SSE
00:00-01:00	0.0	-	2.2	ESE	0.9	SSE
01:00-02:00	0.0	-	2.7	SE	0.4	SSE
02:00-03:00	0.0	-	2.2	SE	0.0	-
03:00-04:00	0.0	-	2.2	SE	0.0	-
04:00-05:00	0.0	-	2.2	SE	0.0	-
05:00-06:00	0.0	-	2.2	SSE	0.4	SSE
06:00-07:00	0.0	-	1.8	SSE	0.0	-
07:00-08:00	0.0	-	1.8	SSE	0.0	-
08:00-09:00	0.0	-	2.2	SE	0.0	-
09:00-10:00	0.9	NE	2.2	SSE	0.9	SE

Wind Speed & Wind Direction

Request No. LA66-R0333

Siam Poongsan Metal Co., Ltd.

Sample No. 02644

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : March 7-10, 2023

Time	March 7-8, 2023		March 8-9, 2023		March 9-10, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.9	NNE	0.0	-	0.0	-
11:00-12:00	0.9	WNW	0.4	WSW	0.0	-
12:00-13:00	0.9	W	0.4	W	0.0	-
13:00-14:00	0.4	WSW	0.4	WSW	0.0	-
14:00-15:00	0.0	-	0.9	WSW	0.4	SW
15:00-16:00	0.4	WSW	0.4	SSW	0.4	SSW
16:00-17:00	0.0	-	0.9	S	0.9	SSW
17:00-18:00	0.0	-	0.4	S	0.4	SSE
18:00-19:00	0.0	-	0.9	S	0.0	-
19:00-20:00	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.0	-	0.0	-
21:00-22:00	0.0	-	0.0	-	0.0	-
22:00-23:00	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	0.0	-	0.0	-
01:00-02:00	0.0	-	0.0	-	0.0	-
02:00-03:00	0.0	-	0.0	-	0.0	-
03:00-04:00	0.0	-	0.0	-	0.0	-
04:00-05:00	0.0	-	0.0	-	0.0	-
05:00-06:00	0.0	-	0.0	-	0.0	-
06:00-07:00	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-
08:00-09:00	0.0	-	0.0	-	0.0	-
09:00-10:00	0.0	-	0.0	-	0.0	-

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Wind Speed & Wind Direction

Request No. LA66-R0589

Siam Poongsan Metal Co., Ltd.

Sample No. 10590

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : May 15-18, 2023

Time	May 15-16, 2023		May 16-17, 2023		May 17-18, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	1.3	WSW	0.0	-	0.4	WNW
11:00-12:00	0.4	NW	0.4	W	0.9	NW
12:00-13:00	0.4	S	0.4	W	0.9	W
13:00-14:00	0.4	W	0.9	W	1.3	N
14:00-15:00	0.4	W	0.9	W	0.9	N
15:00-16:00	0.4	S	0.9	WNW	0.9	N
16:00-17:00	0.4	S	0.9	W	0.9	N
17:00-18:00	0.0	-	0.4	W	0.4	N
18:00-19:00	0.4	S	0.4	W	0.0	-
19:00-20:00	0.9	S	0.0	-	0.0	-
20:00-21:00	0.9	S	0.0	-	0.0	-
21:00-22:00	0.9	S	0.4	S	0.4	S
22:00-23:00	0.4	S	0.4	S	0.4	N
23:00-00:00	0.0	-	0.4	S	0.0	-
00:00-01:00	0.4	S	0.4	SSE	0.0	-
01:00-02:00	0.4	SSE	0.0	-	0.0	-
02:00-03:00	0.9	S	0.0	-	0.0	-
03:00-04:00	1.3	E	0.0	-	0.0	-
04:00-05:00	0.4	SE	0.4	WSW	0.4	W
05:00-06:00	0.4	ENE	0.4	WSW	0.4	W
06:00-07:00	0.4	ENE	0.0	-	0.4	WNW
07:00-08:00	0.0	-	0.0	-	0.4	WNW
08:00-09:00	0.0	-	0.0	-	0.4	WNW
09:00-10:00	0.0	-	0.0	-	1.3	NW

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Wind Speed & Wind Direction

Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

Sample No. 00689

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : January 23-26, 2023

Time	January 23-24, 2023		January 24-25, 2023		January 25-26, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.4	NE	0.9	N	2.2	NE
10:00-11:00	0.9	N	2.2	NNE	2.2	NE
11:00-12:00	1.3	NW	2.7	NE	2.7	NE
12:00-13:00	2.2	NW	2.7	NE	2.2	NNE
13:00-14:00	4.0	NW	2.2	ENE	2.2	N
14:00-15:00	4.0	NW	2.2	NNE	2.2	NE
15:00-16:00	2.2	WNW	1.8	NNE	2.7	N
16:00-17:00	2.2	W	1.3	NNE	1.8	NNE
17:00-18:00	2.2	W	0.9	NNE	2.2	NE
18:00-19:00	1.3	WSW	0.9	S	1.3	NNE
19:00-20:00	0.4	WSW	0.0	-	1.3	NNW
20:00-21:00	0.0	-	0.0	-	1.8	NNW
21:00-22:00	0.0	-	0.4	NW	1.8	NNW
22:00-23:00	0.0	-	1.3	N	1.3	NNE
23:00-00:00	0.0	-	1.8	NNE	0.9	NNE
00:00-01:00	0.0	-	1.8	NNE	0.4	NNE
01:00-02:00	0.0	-	2.2	NE	0.4	NE
02:00-03:00	0.0	-	2.2	NNE	0.4	NNE
03:00-04:00	0.0	-	1.8	NNE	0.4	NNW
04:00-05:00	0.0	-	1.8	NE	0.0	-
05:00-06:00	0.9	NNW	2.2	NNE	0.4	NE
06:00-07:00	0.0	-	2.2	NNE	0.4	NNE
07:00-08:00	0.0	-	2.2	NE	0.4	NW
08:00-09:00	0.4	NNE	2.7	NE	0.0	-

Wind Speed & Wind Direction

Request No. LA66-R0333

Siam Poongsan Metal Co., Ltd.

Sample No. 02645

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : March 7-10, 2023

Time	March 7-8, 2023		March 8-9, 2023		March 9-10, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.0	-	0.0	-	0.9	S
11:00-12:00	0.4	W	0.9	WNW	0.9	SW
12:00-13:00	2.2	WNW	1.3	W	1.8	SSW
13:00-14:00	3.1	WNW	2.2	WNW	2.2	W
14:00-15:00	3.1	W	3.6	W	2.7	W
15:00-16:00	2.7	WNW	3.1	WNW	2.2	WSW
16:00-17:00	2.7	WNW	2.2	WNW	1.8	WNW
17:00-18:00	1.3	W	1.3	SSW	1.8	SSW
18:00-19:00	1.3	SW	2.2	SSW	1.8	SSW
19:00-20:00	1.3	S	1.8	S	1.8	S
20:00-21:00	1.3	S	1.3	S	1.3	S
21:00-22:00	0.4	S	0.9	S	0.9	S
22:00-23:00	0.4	S	0.4	S	0.4	S
23:00-00:00	0.4	SSE	0.4	SSE	0.4	S
00:00-01:00	0.4	SSE	0.4	SSE	0.4	SSE
01:00-02:00	0.9	SSE	0.9	SSE	0.9	SE
02:00-03:00	0.4	SSE	0.4	SSE	0.4	SE
03:00-04:00	0.0	-	0.4	SSE	0.4	SE
04:00-05:00	0.0	-	0.4	SSE	0.4	E
05:00-06:00	0.0	-	0.4	SSE	0.0	-
06:00-07:00	0.4	E	0.4	E	0.0	-
07:00-08:00	0.4	ENE	0.0	-	0.0	-
08:00-09:00	0.4	NE	0.4	E	0.0	-
09:00-10:00	0.0	-	0.4	SSE	0.0	-

Wind Speed & Wind Direction

Request No. LA66-R0589

Siam Poongsan Metal Co., Ltd.

Sample No. 10591

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : May 15-18, 2023

Time	May 15-16, 2023		May 16-17, 2023		May 17-18, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	SW	0.9	WSW	1.3	W
11:00-12:00	2.2	SW	1.3	NW	2.2	NW
12:00-13:00	2.2	SW	2.2	NW	2.7	NW
13:00-14:00	2.7	SW	1.8	W	2.2	NW
14:00-15:00	3.1	SW	2.2	NW	1.8	NW
15:00-16:00	2.7	SW	2.2	NW	1.8	NW
16:00-17:00	1.8	SW	1.8	NW	1.3	NW
17:00-18:00	1.8	SW	1.3	NW	0.9	WSW
18:00-19:00	1.3	SW	0.9	NW	0.9	WSW
19:00-20:00	2.2	SSW	1.3	SW	1.3	SW
20:00-21:00	2.2	SSW	1.8	SW	1.3	SSW
21:00-22:00	1.8	SSW	1.3	SSW	1.3	SSW
22:00-23:00	0.9	SSW	0.9	SSW	1.3	SSW
23:00-00:00	0.9	SSW	0.9	SSW	0.4	SSW
00:00-01:00	0.9	SSW	1.8	SSW	0.0	-
01:00-02:00	0.9	SSW	1.8	SW	1.8	SW
02:00-03:00	1.8	SSW	1.3	SW	1.8	SW
03:00-04:00	1.8	ESE	1.3	SW	1.3	WSW
04:00-05:00	0.9	SE	1.3	SW	1.3	NW
05:00-06:00	0.9	SE	0.9	SW	1.3	WNW
06:00-07:00	0.9	SE	0.9	NW	2.2	NW
07:00-08:00	0.4	ESE	1.3	NW	2.2	WNW
08:00-09:00	0.4	SW	1.3	NW	1.8	NW
09:00-10:00	0.4	SSW	1.3	NW	1.8	NW

COPY

Wind Speed & Wind Direction

Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

Sample No. 00687

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : January 23-26, 2023

Time	January 23-24, 2023		January 24-25, 2023		January 25-26, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	0.4	NW	1.3	ENE	1.3	E
12:00-13:00	1.3	NW	1.3	ENE	0.9	E
13:00-14:00	4.9	NW	1.3	E	0.4	E
14:00-15:00	4.9	NW	1.3	E	1.3	E
15:00-16:00	4.5	NW	0.9	E	0.9	E
16:00-17:00	4.0	NW	0.9	E	0.9	E
17:00-18:00	3.1	WNW	0.4	ESE	0.9	E
18:00-19:00	2.7	WNW	1.3	WSW	0.9	E
19:00-20:00	0.9	WNW	0.4	W	0.4	ENE
20:00-21:00	0.0	-	0.0	-	0.4	WNW
21:00-22:00	0.0	-	0.0	-	0.4	W
22:00-23:00	0.0	-	0.4	WSW	0.4	E
23:00-00:00	0.0	-	0.9	E	0.4	E
00:00-01:00	0.0	-	1.3	E	0.4	E
01:00-02:00	0.0	-	0.9	E	0.4	E
02:00-03:00	0.0	-	0.9	E	0.0	-
03:00-04:00	0.0	-	0.9	E	0.0	-
04:00-05:00	0.0	-	0.9	E	0.0	-
05:00-06:00	0.0	-	0.9	E	0.0	-
06:00-07:00	0.0	-	1.3	E	0.0	-
07:00-08:00	0.0	-	1.3	E	0.0	-
08:00-09:00	0.0	-	1.3	E	0.0	-
09:00-10:00	0.0	-	0.9	E	0.0	-
10:00-11:00	0.9	ENE	0.9	E	0.4	E

COPY

Wind Speed & Wind Direction

Request No. LA66-R0333

Siam Poongsan Metal Co., Ltd.

Sample No. 02643

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : March 7-10, 2023

Time	March 7-8, 2023		March 8-9, 2023		March 9-10, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	NNW	0.9	SSE	1.3	SSE
11:00-12:00	1.3	NNW	1.3	NNW	0.9	SSE
12:00-13:00	2.7	NNW	1.8	NW	1.8	NW
13:00-14:00	3.6	NNW	2.2	NW	2.2	WNW
14:00-15:00	4.0	NNW	3.1	NW	2.7	NW
15:00-16:00	3.6	NNW	2.7	NNW	2.2	NW
16:00-17:00	2.7	NW	2.2	NW	2.7	NW
17:00-18:00	1.8	NW	1.8	NW	2.2	SSE
18:00-19:00	1.3	S	2.2	SSE	1.8	SSE
19:00-20:00	1.8	SSE	2.2	SSE	1.8	SSE
20:00-21:00	1.3	SSE	1.3	SSE	1.3	SSE
21:00-22:00	1.3	SSE	1.3	SSE	1.3	SSE
22:00-23:00	0.4	SSE	0.4	SSE	0.9	SE
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	-	0.4	SE	0.4	SE
04:00-05:00	0.4	SSE	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	0.4	SE	0.0	-	0.0	-
09:00-10:00	0.0	-	0.9	SSE	0.0	-

COPY

Wind Speed & Wind Direction

Request No. LA66-R0589

Siam Poongsan Metal Co., Ltd.

Sample No. 10592

Sampling Source : บริเวณเขตธุรกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : May 15-18, 2023

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

COPY

Wind Speed & Wind Direction

Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

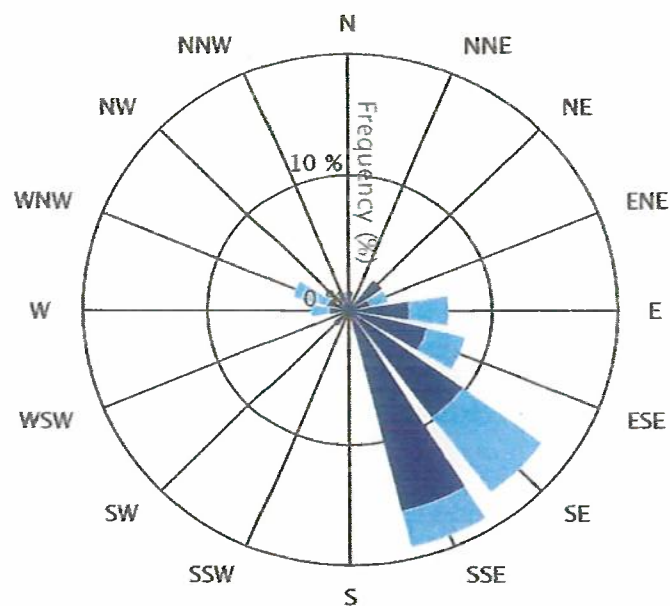
Sample No. 00688

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : January 23-26, 2023

Calm 33.3 %



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	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	2.8	0.0	0.0	0.0	0.0	0.0	2.8
ENE	1.4	1.4	0.0	0.0	0.0	0.0	2.8
E	4.2	2.8	0.0	0.0	0.0	0.0	7.0
ESE	5.6	2.8	0.0	0.0	0.0	0.0	8.4
SE	9.7	6.9	0.0	0.0	0.0	0.0	16.6
SSE	15.3	2.8	0.0	0.0	0.0	0.0	18.1
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	1.4	1.4	0.0	0.0	0.0	0.0	2.8
WNW	1.4	2.8	0.0	0.0	0.0	0.0	4.2
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	1.4	0.0	0.0	0.0	0.0	0.0	1.4
Calm	33.3						

Wind Speed & Wind Direction

Request No. LA66-R0333

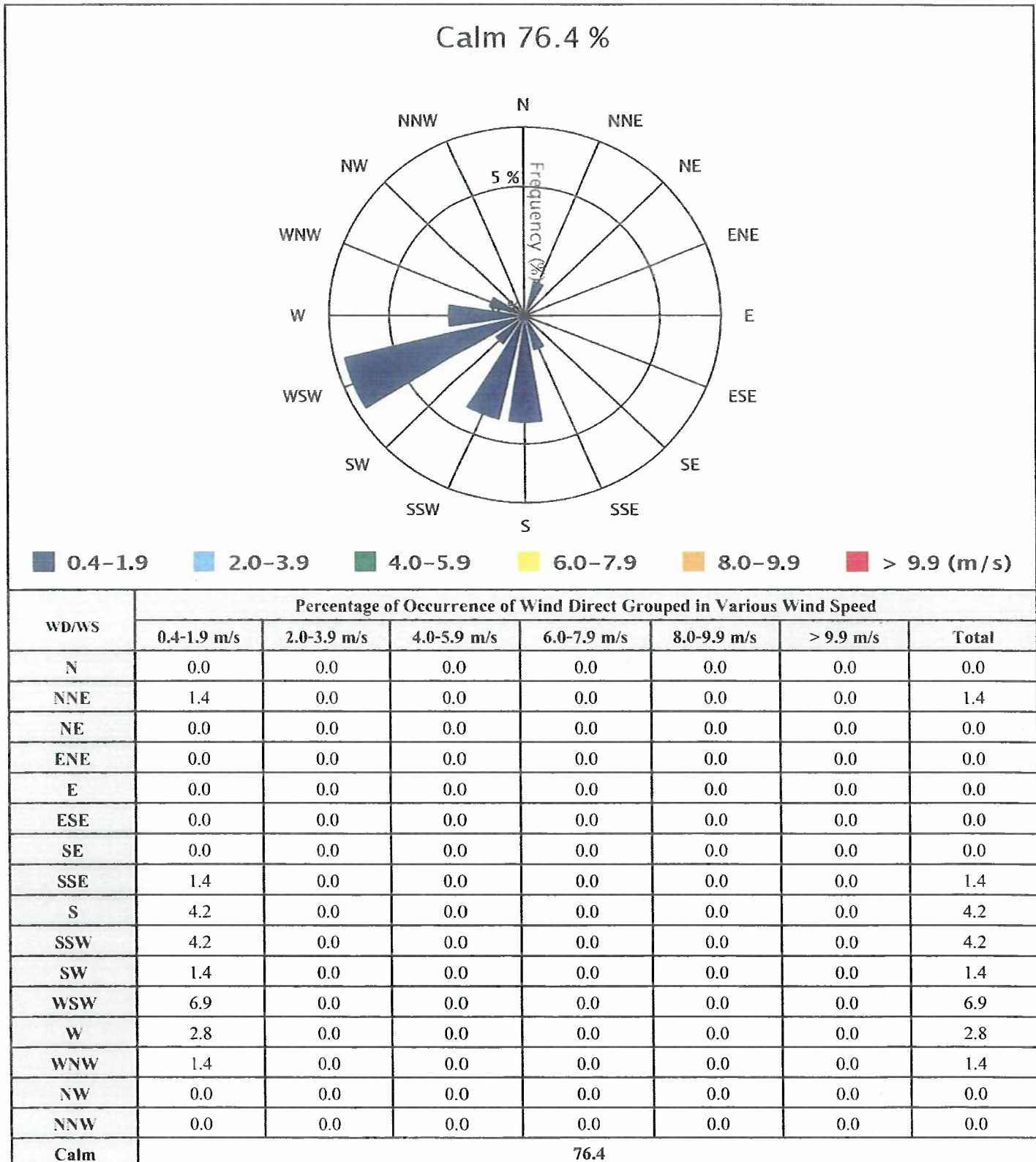
Siam Poongsan Metal Co., Ltd.

Sample No. 02644

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : March 7-10, 2023



Wind Speed & Wind Direction

Request No. LA66-R0589

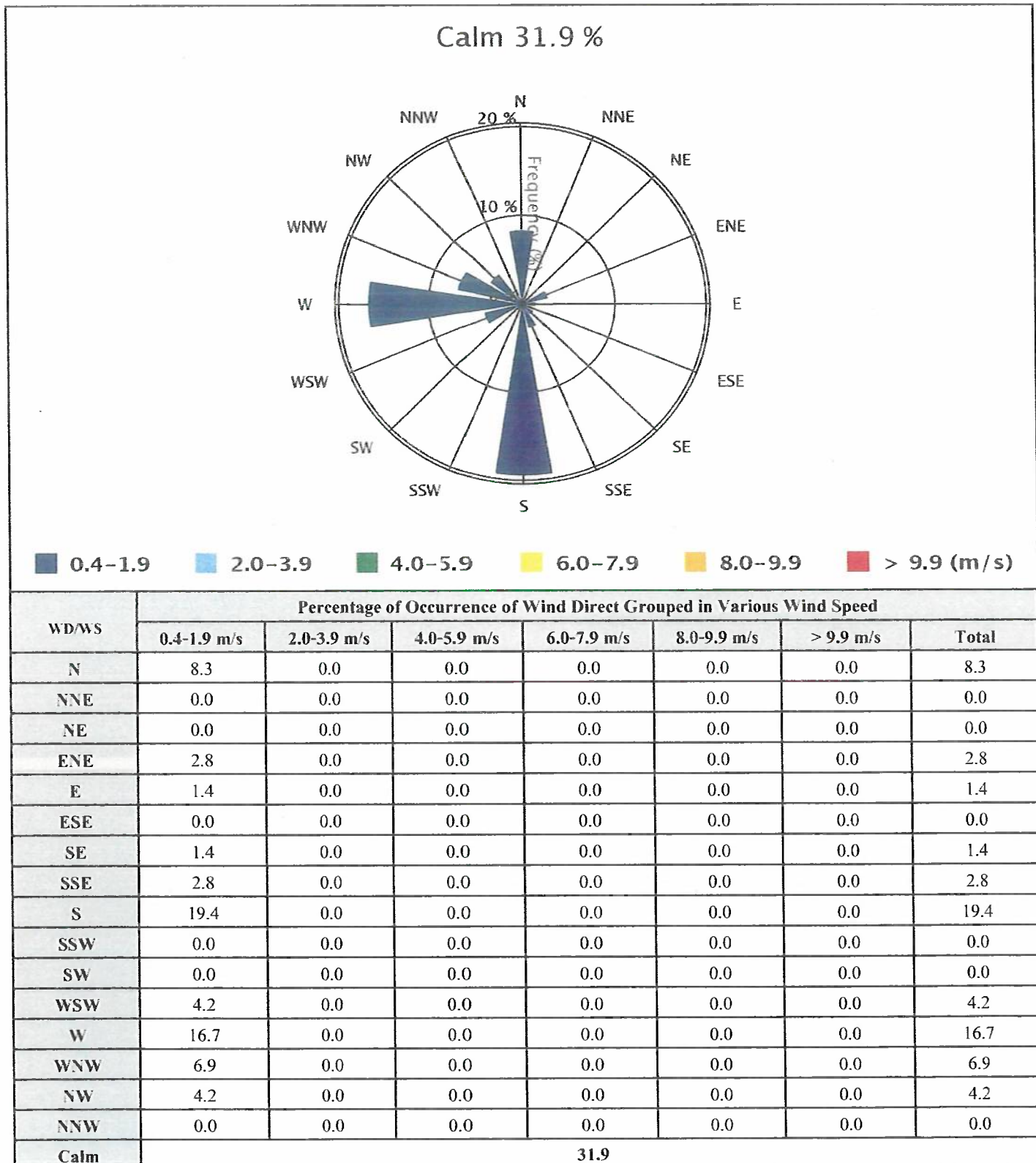
Siam Poongsan Metal Co., Ltd.

Sample No. 10590

Sampling Source : บริเวณที่ทำการย่อยเขตอุตสาหกรรมส่งออก

ของนิคมอุตสาหกรรมแหลมฉบัง ประมาณ 1 กม.

Sampling Date : May 15-18, 2023



COPY

Wind Speed & Wind Direction

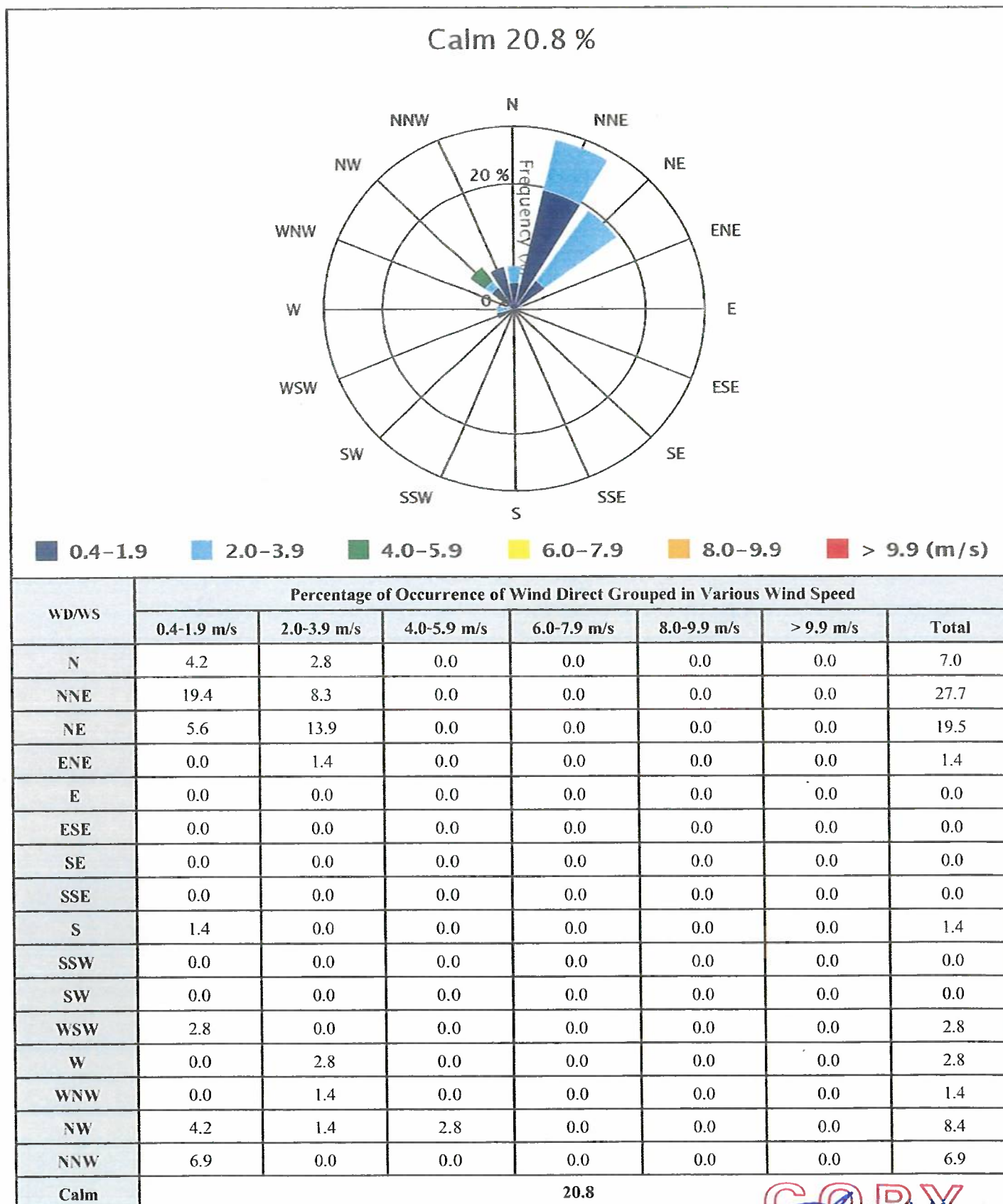
Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

Sample No. 00689

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : January 23-26, 2023



COPY

Wind Speed & Wind Direction

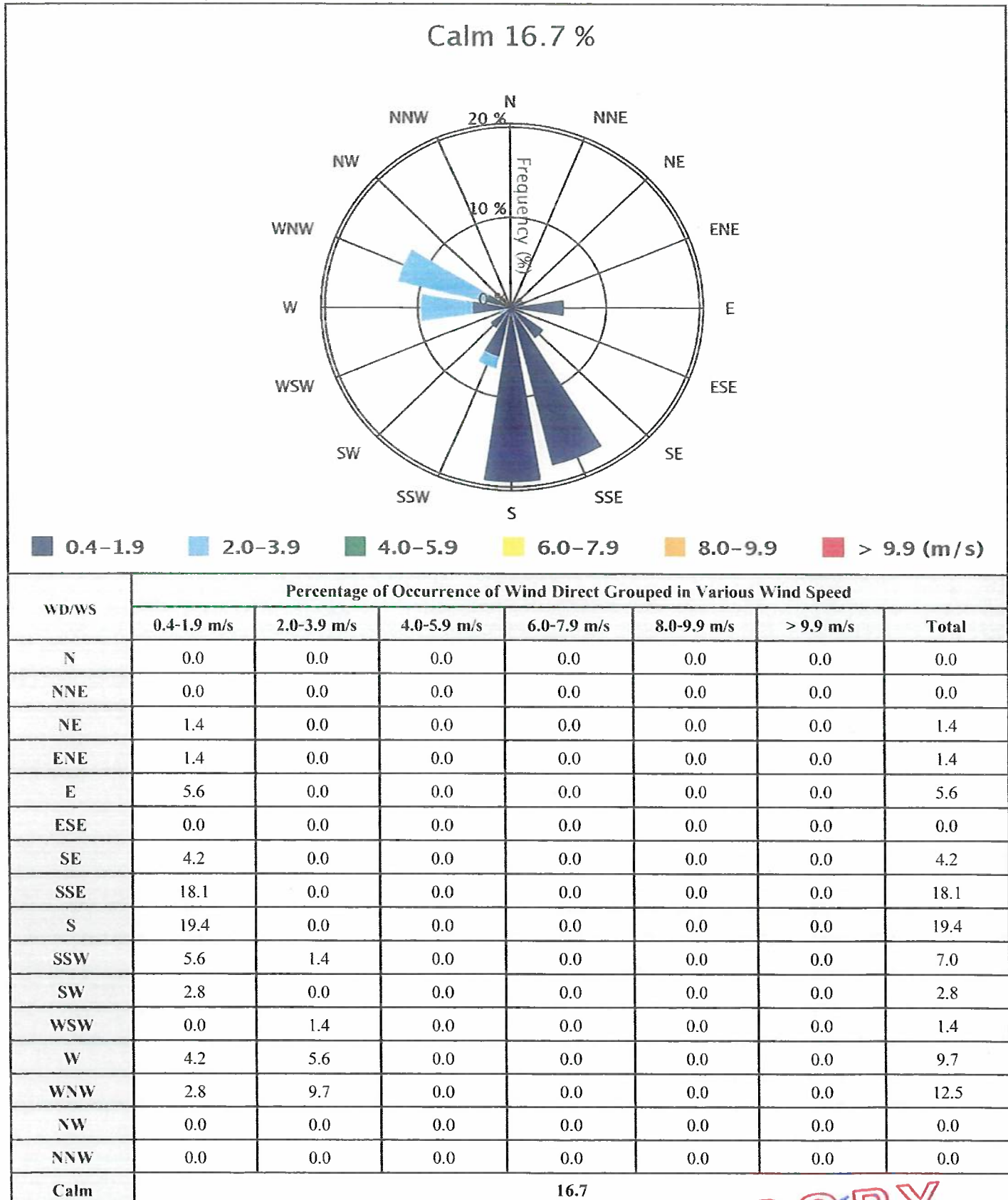
Request No. LA66-R0333

Siam Poongsan Metal Co., Ltd.

Sample No. 02645

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : March 7-10, 2023



COPY

Wind Speed & Wind Direction

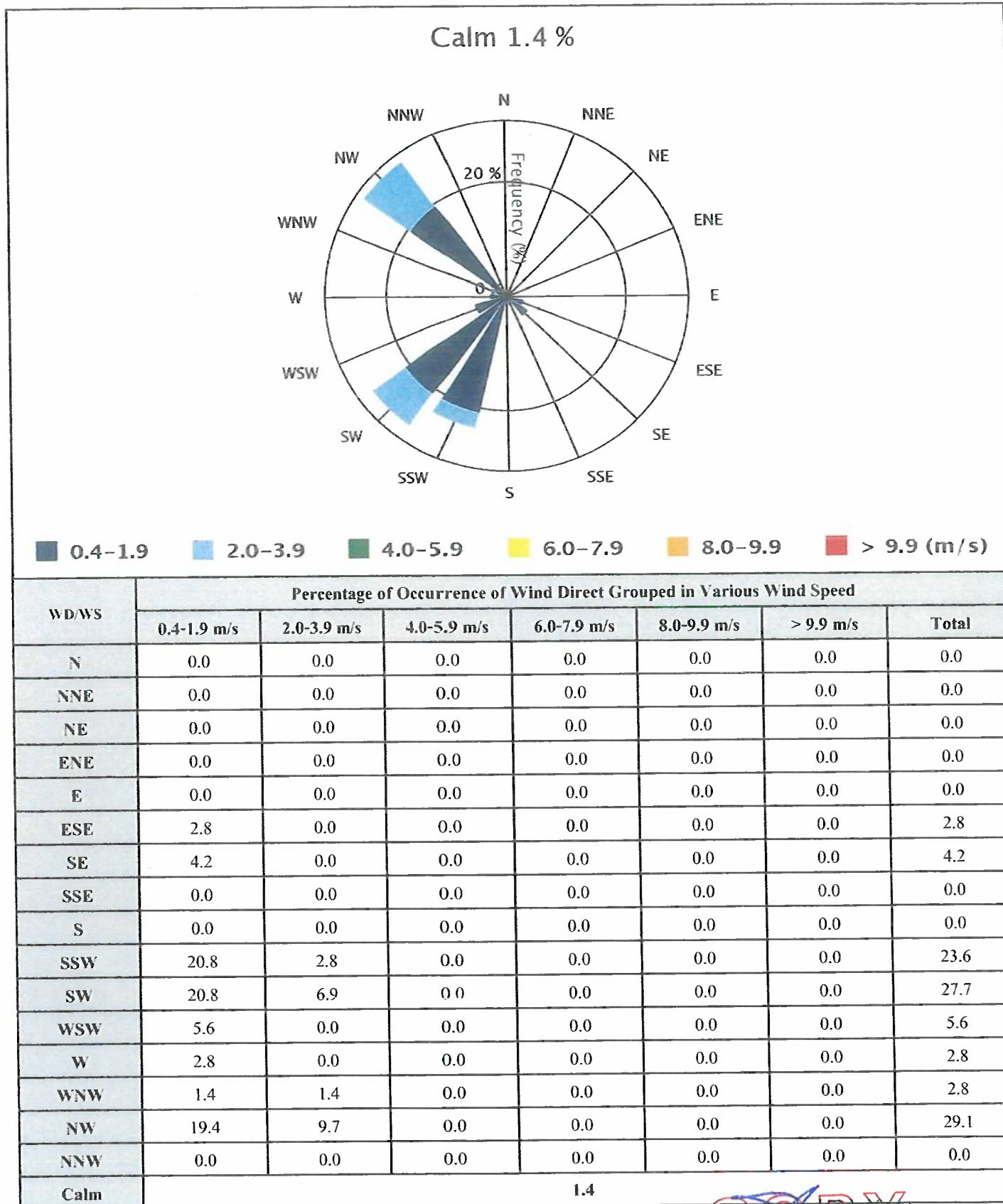
Request No. LA66-R058

Siam Poongsan Metal Co., Ltd.

Sample No. 1059

Sampling Source : บริเวณใกล้ทางเข้าออกภายในโรงงานหลอมทองเหลือง

Sampling Date : May 15-18, 2023



COPY

Wind Speed & Wind Direction

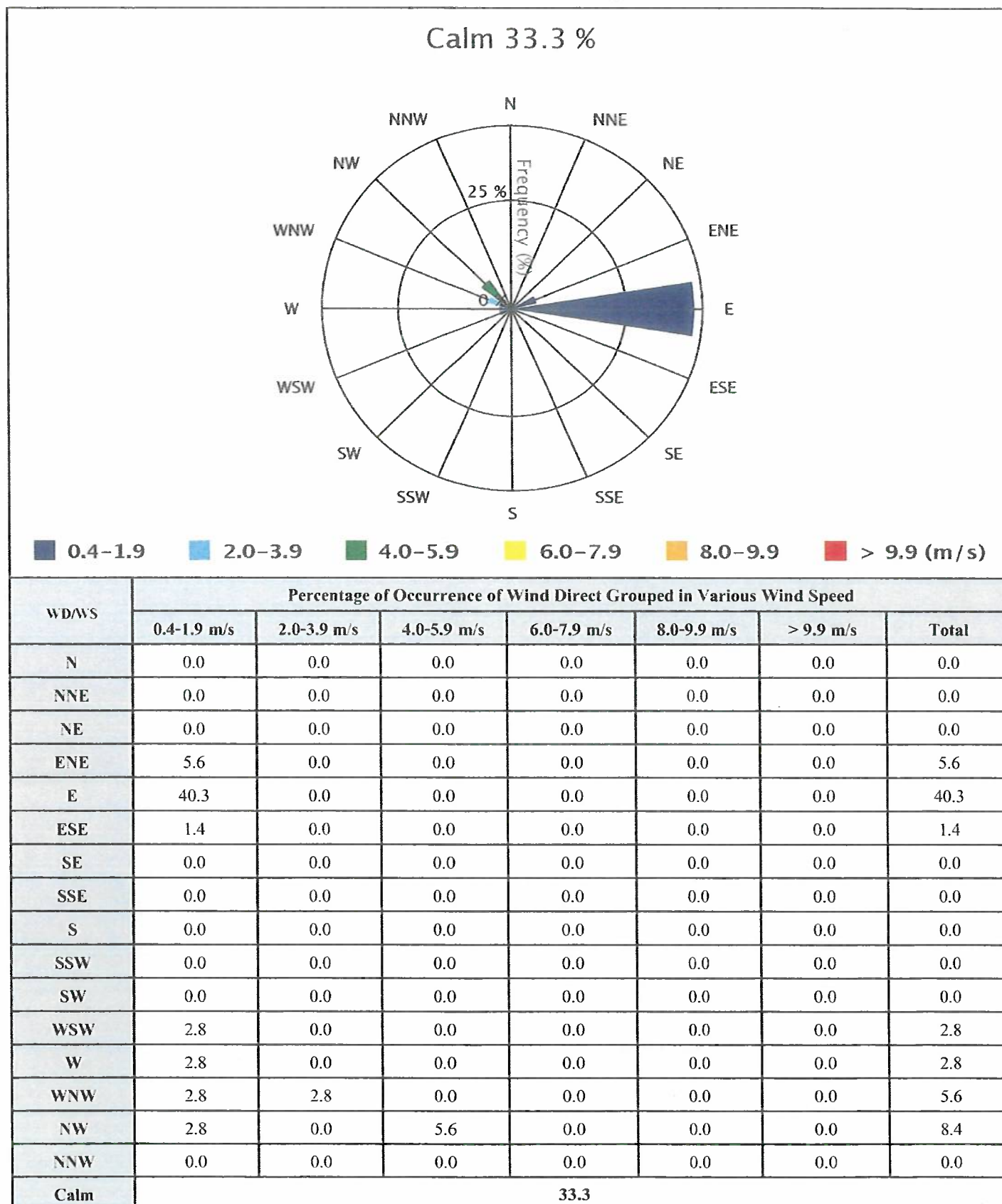
Request No. LA66-R0123

Siam Poongsan Metal Co., Ltd.

Sample No. 00687

Sampling Source : บริเวณเขตรุกิจการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : January 23-26, 2023



Wind Speed & Wind Direction

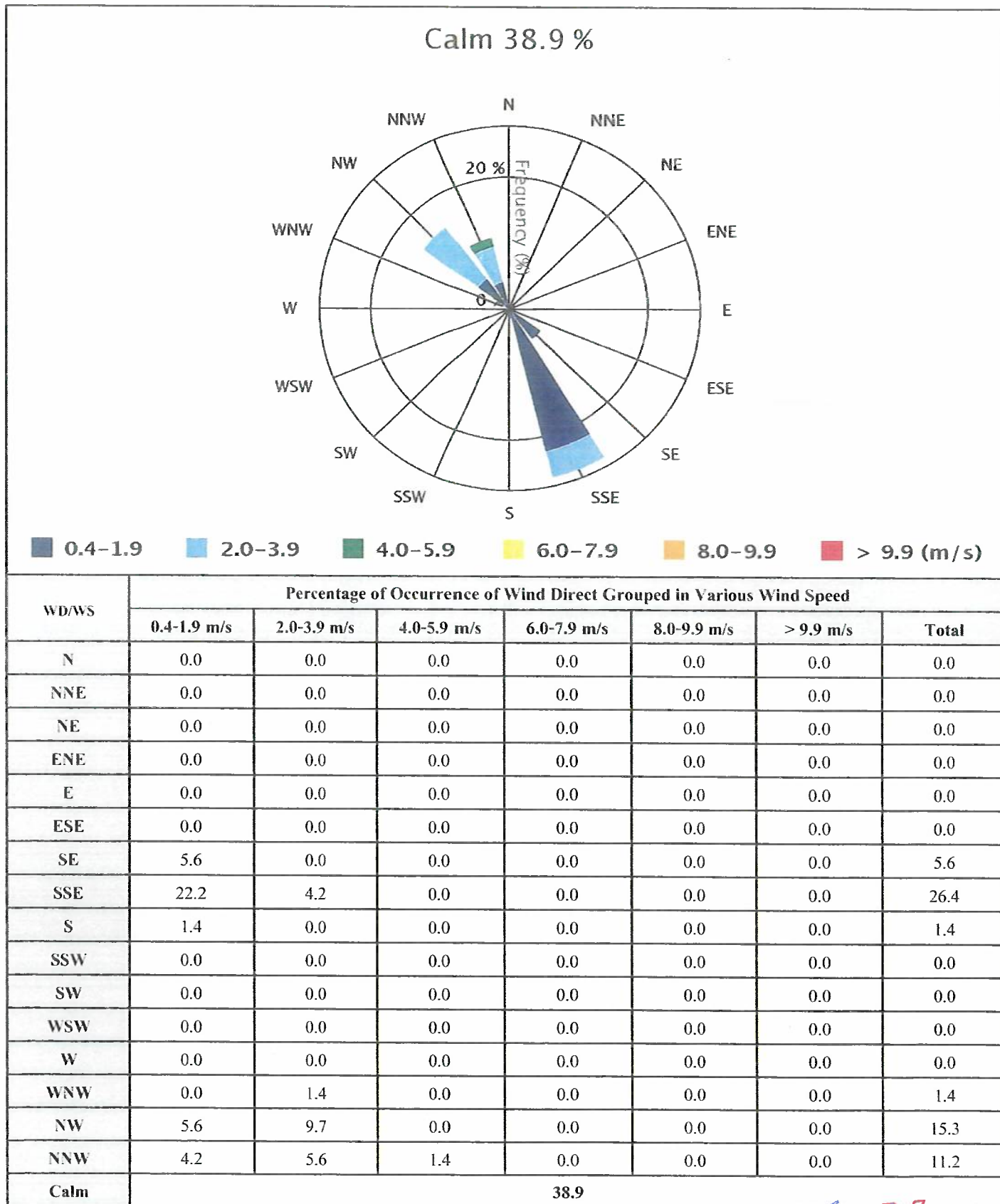
Request No. LA66-R0333

Siam Poongsan Metal Co., Ltd.

Sample No. 02643

Sampling Source : บริเวณเขตรุกีการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : March 7-10, 2023



COPY

Wind Speed & Wind Direction

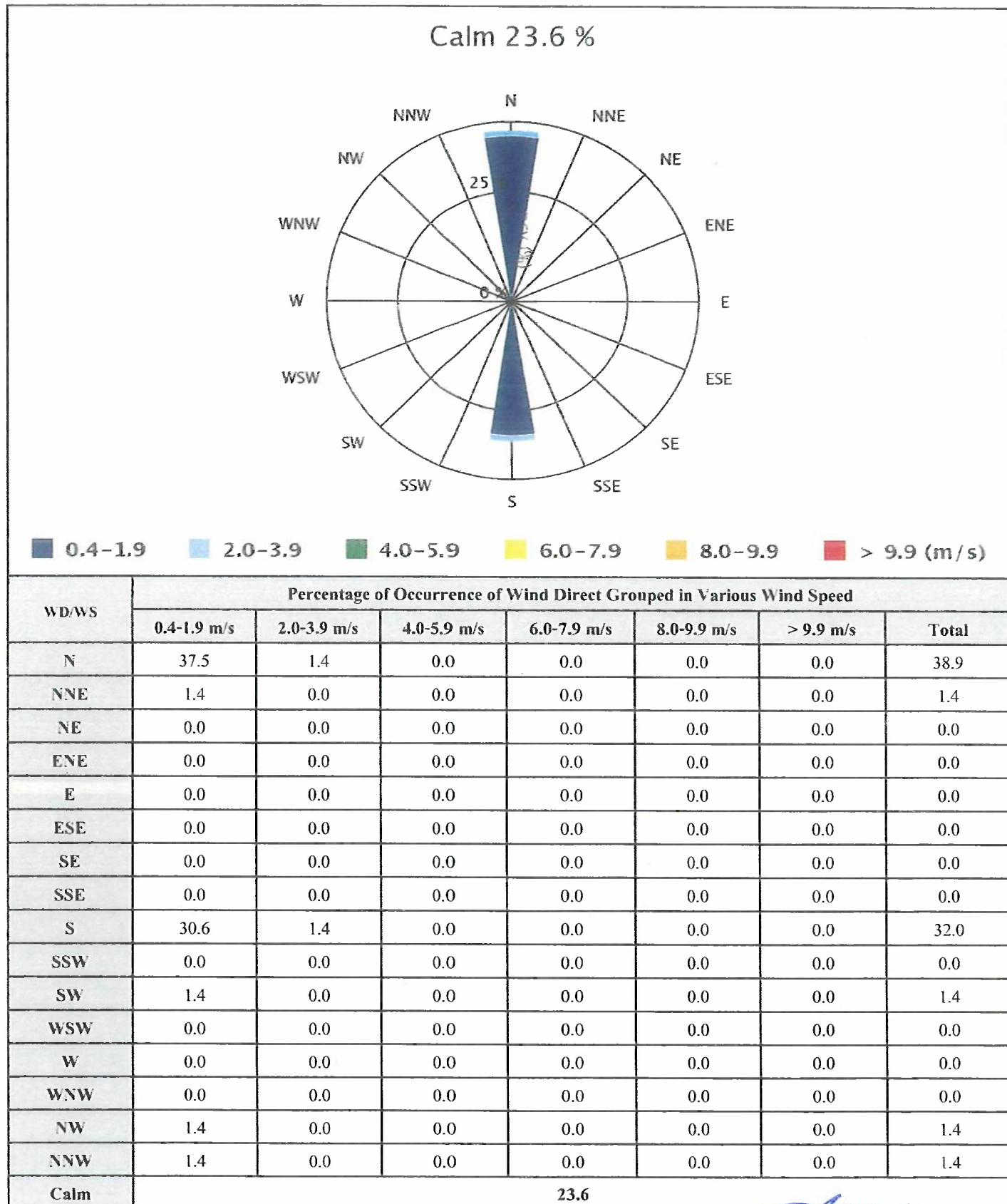
Request No. LA66-R0585

Siam Poongsan Metal Co., Ltd.

Sample No. 10592

Sampling Source : บริเวณเขตรกริการค้าของนิคมอุตสาหกรรมแหลมฉบัง ห่างประมาณ 0.5 กม.

Sampling Date : May 15-18, 2023



COPY

Request No. LA66-0113

Report No. 6601-0146

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 SAMPLE NO. : 00081
 SAMPLING DATE : 23/01/2023 SAMPLING TIME : 10:20-10:55
 RECEIVED DATE : 24/01/2023 REPORTED DATE : 27/01/2023
 TESTED DATE : 24-26/01/2023

STACK DESCRIPTION

Height :	-	m	Type of Process :	Exhaust
Diameter :	0.84	m	Type of Fuel :	-
Temperature :	43.00	°C	Oxygen Content :	20.90 %
Air Velocity :	23.59	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate ¹ :	11.55	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.08	%		

PARAMETER*	TEST METHOD	TIME	RESULT ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:20-10:55	53.8	mg/m ³

REMARK: ¹ 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)

27/01/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

27/01/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA66-0317

Report No. 6603-0187

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

SAMPLE NO. : 00750

SAMPLING DATE : 07/03/2023

SAMPLING TIME : 09:00-09:30

RECEIVED DATE : 10/03/2023

REPORTED DATE : 20/03/2023

TESTED DATE : 10-13/03/2023

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 :	19.58	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ¹ :	9.76	m ³ /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	3.30	%		

PARAMETER*	TEST METHOD	TIME	RESULT ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:00-09:30	44.2	mg/m ³

REMARK:

¹ DRY BASIS (25°C, 760 mm.Hg)

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ก-4377)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

20/03/2023

COPY

Request No. LA66-0540

Report No. 6605-0244

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 : 15/05/2023
 RECEIVED DATE : 22/05/2023
 TESTED DATE : 22-24/05/2023

SAMPLE NO. : 02931
 SAMPLING TIME : 09:10-09:48
 REPORTED DATE : 24/05/2023


STACK DESCRIPTION

Height :	-	m	Type of Process :	Exhaust
Diameter :	0.84	m	Type of Fuel :	-
Temperature :	40.00	°C	Oxygen Content :	20.90 %
Air Velocity :	21.47	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate ¹ :	10.67	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	3.46	%		

PARAMETER*	TEST METHOD	TIME	RESULT ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:10-09:48	96.2	mg/m ³

REMARK: ¹ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. NITCHAPHON TONGLOR (จ-003-จ-5638)

Examined By 
 (MISS APIRADEE CHUEN-AROM)
 (จ-003-ค-4377)
 24/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
 (MR. THONGCHAI BOONSAK)
 (จ-003-ค-5618)
 24/05/2023

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

COPY

Request No. LA66-0113

Report No. 6601-0147

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. : 00082
 SAMPLING DATE : 23/01/2023 SAMPLING TIME : 10:20-11:05
 RECEIVED DATE : 24/01/2023 REPORTED DATE : 27/01/2023
 TESTED DATE : 24-26/01/2023

STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	43.00	°C	Oxygen Content :	20.90 %
Air Velocity :	22.86	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate ² :	14.07	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	3.79	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:20-11:05	0.4	400	mg/m ³

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

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

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ก-4377)

27/01/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ก-5618)

27/01/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA66-0320

Report No. 6603-0198

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. : 00762
 SAMPLING DATE : 07/03/2023 SAMPLING TIME : 09:00-09:35
 RECEIVED DATE : 14/03/2023 REPORTED DATE : 22/03/2023
 TESTED DATE : 14-16/03/2023

STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	43.00	°C	Oxygen Content :	20.90 %
Air Velocity :	19.46	m/s	Barometric Pressure :	760.75 mm.Hg
Flow rate ² :	12.01	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	3.62	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:00-09:35	0.3	400	mg/m ³

REMARK:

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

* SAMPLING BY MR. AUDOUMSUB JENJOBING (จ-003-0-8894)

Examined By.....



(MISS APIRADEE CHUEN-AROM)

(จ-003-ก-4377)

22/03/2023



Approved By.....



(MR. THONGCHAI BOONSAK)

(จ-003-ก-5618)

22/03/2023

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



Request No. LA66-0540

Report No. 6605-0245

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. : 02932
 SAMPLING DATE : 15/05/2023 SAMPLING TIME : 09:10-09:40
 RECEIVED DATE : 22/05/2023 REPORTED DATE : 24/05/2023
 TESTED DATE : 22-24/05/2023

STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.93	m	Type of Fuel :	-
Temperature :	45.00	°C	Oxygen Content :	20.90 %
Air Velocity :	18.87	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate ² :	11.65	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	2.52	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:10-09:40	0.5	400	mg/m ³

REMARK:

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

* SAMPLING BY MR. NITCHAPHON TONGLOR (จ-003-จ-5638)

Examined By 
 (MISS APIRADEE CHUEN-AROM)
 (จ-003-ก-4377)
 24/05/2023



Approved By 
 (MR. THONGCHAI BOONSAK)
 (จ-003-ก-5618)
 24/05/2023

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Test Report

Request No : W6601467

Report No : 6602-0332

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 66011634

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 23/01/2023 **

Sampling By : ETC **

Sampling Time : 10:10 AM **

Sampling Method : Grab **

Received Date : 24/01/2023

Tested Date : 24/01/2023 - 28/01/2023

Reported Date : 08/02/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	243
Copper *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	341
Nickel *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	3.06
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	18.6
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-ก-7280) *

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

08/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

08/02/2023

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Test Report

Request No : W6601467

Report No : 6602-0332

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 66011634

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 23/01/2023 **

Sampling By : ETC **

Sampling Time : 10:10 AM **

Sampling Method : Grab **

Received Date : 24/01/2023

Tested Date : 24/01/2023 - 28/01/2023

Reported Date : 08/02/2023

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	77.6

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]

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

08/02/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

08/02/2023

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Test Report

Request No : W6601467

Customer : Siam Poongsan Metal Co.,Ltd.

Report No : 6602- 0332

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

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 66011634

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 23/01/2023

Sampling By : ETC

Sampling Time : 10:10 AM

Sampling Method : Grab

Received Date : 24/01/2023

Tested Date : 24/01/2023 - 28/01/2023

Reported Date : 08/02/2023

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.9

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

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

3. Sampling By Mr. Parkpoom Buasawad (๓-๐๐3-๓-๗28๐)



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Examined By : 

(Miss Apiradee Chuen-arom)

08/02/2023

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Test Report

Request No : W6602262

Report No : 6602-1288

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 66021134

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 08/02/2023 **

Sampling By : ETC **

Sampling Time : 9:00 AM **

Sampling Method : Grab **

Received Date : 09/02/2023

Tested Date : 09/02/2023 - 17/02/2023

Reported Date : 20/02/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	149
Copper *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	163
Nickel @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.52
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)	13

Physical Apperance : 1. Sample : greenish , 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. Nitchaphon Tonglor (๖-๐๐3-๖-5638) *

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

Examined By :

(Miss Apiradee Chuen-arom)
(๖-๐๐3-๖-4377)
20/02/2023



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Approved By :

(Mr. Kawee Suthasub)
(๖-๐๐3-๖-2205)
20/02/2023

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Test Report

Request No : W6602262

Report No : 6602-1288

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 66021134

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 08/02/2023 **

Sampling By : ETC **

Sampling Time : 9:00 AM **

Sampling Method : Grab **

Received Date : 09/02/2023

Tested Date : 09/02/2023 - 17/02/2023

Reported Date : 20/02/2023

Parameter	Unit	Method	Result
Zinc *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	41.5

Physical Apperance : 1. Sample : greenish, 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 Mr. Nitchaphon Tonglor (จ-003-จ-5638) *

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

Examined By : 

(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
20/02/2023



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Approved By : 

(Mr. Kawee Suthasub)
(จ-003-ค-2205)
20/02/2023

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Test Report

Request No : W6602262

Customer : Siam Poongsan Metal Co.,Ltd.

Report No : 6602-1288

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

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 66021134

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 08/02/2023

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 09/02/2023

Tested Date : 09/02/2023 - 17/02/2023

Reported Date : 20/02/2023

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

Physical Apperance : 1. Sample : greenish, 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

3. Sampling By Mr. Nitchaphon Tonglor (7-003-1-5638)



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(Miss Apiradee Chuen-arom)

20/02/2023

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Test Report

Request No : W6603305

Report No : 6603-1750

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 66031338

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 10/03/2023 **

Sampling By : ETC **

Sampling Time : 10:30 AM **

Sampling Method : Grab **

Received Date : 11/03/2023

Tested Date : 13/03/2023 - 23/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	166
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	172
Nickel @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.41
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	7.8
Temperature *	°C	Laboratory and Field Method	30
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	8

Physical Appearance : 1. Sample : greenish, 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. Songpon Phiwuan (จ-003-ก-7279) *

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

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
27/03/2023



Approved By : 
(Mr. Kawee Suthasub)
(จ-003-ก-2205)
27/03/2023

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Test Report

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

Request No : W6603305

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

Report No : 6603-1750

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

Sample No : W 66031338

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 10/03/2023 **

Sampling By : ETC **

Sampling Time : 10:30 AM **

Sampling Method : Grab **

Received Date : 11/03/2023

Tested Date : 13/03/2023 - 23/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	45.9

Physical Appearance : 1. Sample : greenish, 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. Songpon Phiwan (จ-003-ก-7279) *

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

27/03/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

27/03/2023

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Test Report

Request No : W6603305

Report No : 6603-1750

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 66031338

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 10/03/2023

Sampling By : ETC

Sampling Time : 10:30 AM

Sampling Method : Grab

Received Date : 11/03/2023

Tested Date : 13/03/2023 - 23/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.1

Physical Apperance : 1. Sample : greenish, 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 Phiwan (1-003-ก-7279)

Examined By : 

(Miss Apiradee Chuen-arom)

27/03/2023

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Test Report

Request No : W6604237

Report No : 6604-1811

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 66040948

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 06/04/2023 **

Sampling By : ETC **

Sampling Time : 9:50 AM **

Sampling Method : Grab **

Received Date : 07/04/2023

Tested Date : 07/04/2023 - 22/04/2023

Reported Date : 26/04/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	107
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	129
Nickel @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.84
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
Temperature *	°C	Laboratory and Field Method	35
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	9

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. @ = 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 Pornpinan Viriyakusolkul (1-003-1-8334) *

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

Examined By : 
(Miss Apiradee Chuen-arom)
(1-003-1-4377)
26/04/2023



Approved By : 
(Mr. Kawee Suthasub)
(1-003-1-2205)
26/04/2023

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Test Report

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

Request No : W6604237

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

Report No : 6604-1811

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

Sample No : W 66040948

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 06/04/2023 **

Sampling By : ETC **

Sampling Time : 9:50 AM **

Sampling Method : Grab **

Received Date : 07/04/2023

Tested Date : 07/04/2023 - 22/04/2023

Reported Date : 26/04/2023

Parameter	Unit	Method	Result
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	77.8

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. @ = 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 Pornpinan Viriyakusolkul (จ-003-ท-8334) *

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

26/04/2023



Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

26/04/2023

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Test Report

Request No : W6604237

Customer : Siam Poongsan Metal Co.,Ltd.

Report No : 6604- 1811

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

Sampling Source : Siam Poongsan Metal Co.,Ltd.

Sample No : W 66040948

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 06/04/2023

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 07/04/2023

Tested Date : 07/04/2023 - 22/04/2023

Reported Date : 26/04/2023

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.1

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

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

3. Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

26/04/2023

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

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Test Report

Request No : W6605213

Report No : 6605-1930

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 66050844

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 09/05/2023 **

Sampling By : ETC **

Sampling Time : 9:30 AM **

Sampling Method : Grab **

Received Date : 10/05/2023

Tested Date : 10/05/2023 - 20/05/2023

Reported Date : 25/05/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	89
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	150
Nickel *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.84
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	3.7
pH (on site) *		Electrometric Method	4.0
Temperature *	°C	Laboratory and Field Method	30
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	14

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


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

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

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

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
25/05/2023



Approved By : 
(Mr. Kawee Suthasub)
(จ-003-ค-2205)
25/05/2023

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Test Report

Request No : W6605213

Report No : 6605-1930

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 66050844

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 09/05/2023 **

Sampling By : ETC **

Sampling Time : 9:30 AM **

Sampling Method : Grab **

Received Date : 10/05/2023

Tested Date : 10/05/2023 - 20/05/2023

Reported Date : 25/05/2023

Parameter	Unit	Method	Result
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	68.8

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

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

3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (๖-003-๓-๗๒๗) *

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

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๓-๔๓๗)

25/05/2023



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Approved By :

(Mr. Kawee Suthasub)

(๖-003-๓-๒๒๐๕)

25/05/2023

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Test Report

Request No : W6606447

Report No : 6606-2484

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 66061683

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 15/06/2023 **

Sampling By : ETC **

Sampling Time : 8:38 AM **

Sampling Method : Grab **

Received Date : 16/06/2023

Tested Date : 16/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	118
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	341
Nickel *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	4.82
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0
Temperature *	°C	Laboratory and Field Method	36
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	10

Physical Appearance : 1. Sample : greenish, 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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

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

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

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

Examined By :

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



Approved By :

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

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Test Report

Request No : W6606447

Report No : 6606-2484

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 66061683

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent) **

Sampling Date : 15/06/2023 **

Sampling By : ETC **

Sampling Time : 8:38 AM **

Sampling Method : Grab **

Received Date : 16/06/2023

Tested Date : 16/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	89.4

Physical Appearance : 1. Sample : greenish, 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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-อ-4377)

30/06/2023



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Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-อ-4367)

30/06/2023

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Test Report

Request No : W6606447

Report No : 6606-2484

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 66061683

Sample Name : น้ำก่อนเข้าระบบบำบัด (Influent)

Sampling Date : 15/06/2023

Sampling By : ETC

Sampling Time : 8:38 AM

Sampling Method : Grab

Received Date : 16/06/2023

Tested Date : 16/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result
pH (on site)		Electrometric Method	2.4

Physical Apperance : 1. Sample : greenish, 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 Pornpinan Viriyakusolkul (๖-003-๖-8334)



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(Miss Apiradee Chuen-arom)

30/06/2023

COPY

Test Report

Request No : W6601467

Report No : 6602-0333

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 66011635

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 23/01/2023 **

Sampling By : ETC **

Sampling Time : 10:20 AM **

Sampling Method : Grab **

Received Date : 24/01/2023

Tested Date : 24/01/2023 - 06/02/2023

Reported Date : 08/02/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand [#]	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	24.9	≤500
Chemical Oxygen Demand [#]	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	111	≤750
Copper [@]	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.31	≤2
Nickel [@]	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤1
Oil and Grease [@]	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.6	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Suspended Solids [#]	mg/l	Dried at 103-105 C (SM:2540D)	7	≤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,

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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-ก-7280) *

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

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-ก-4377)
08/02/2023



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Approved By :

(Mr. Kawee Suthasub)
(1-003-ก-2205)
08/02/2023

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Test Report

Request No : W6601467

Report No : 6602-0333

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 66011635

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 23/01/2023 **

Sampling By : ETC **

Sampling Time : 10:20 AM **

Sampling Method : Grab **

Received Date : 24/01/2023

Tested Date : 24/01/2023 - 06/02/2023

Reported Date : 08/02/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.28	≤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,

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

08/02/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

08/02/2023

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Test Report

Request No : W6602262

Report No : 6602-1289

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 66021135

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 08/02/2023 **

Sampling By : ETC **

Sampling Time : 9:10 AM **

Sampling Method : Grab **

Received Date : 09/02/2023

Tested Date : 09/02/2023 - 17/02/2023

Reported Date : 20/02/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	13.9	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	54	≤750
Copper @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.32	≤2
Nickel @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤1
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.5	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	25	≤45
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : 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,

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4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Nitchaphon Tonglor (จ-003-ท-5638)

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

20/02/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

20/02/2023

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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 66021135

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 08/02/2023 **

Sampling By : ETC **

Sampling Time : 9:10 AM **

Sampling Method : Grab **

Received Date : 09/02/2023

Tested Date : 09/02/2023 - 17/02/2023

Reported Date : 20/02/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/l	Digestion,Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.15	≤5

Physical Apperance : 1. Sample : 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)

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

20/02/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

20/02/2023

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Test Report

Request No : W6603305

Report No : 6603-1751

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 66031339

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 10/03/2023 **

Sampling By : ETC **

Sampling Time : 10:40 AM **

Sampling Method : Grab **

Received Date : 11/03/2023

Tested Date : 13/03/2023 - 18/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.4	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	57	≤750
Copper @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.64	≤2
Nickel @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤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	30	≤45
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	5	≤200

Physical Appearance : 1. Sample : yellow, 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)

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

27/03/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

27/03/2023

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Test Report

Request No : W6603305

Report No : 6603-1751

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 66031339

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 10/03/2023 **

Sampling By : ETC **

Sampling Time : 10:40 AM **

Sampling Method : Grab **

Received Date : 11/03/2023

Tested Date : 13/03/2023 - 18/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.42	≤5

Physical Appearance : 1. Sample : yellow, 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)

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

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

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
27/03/2023



Approved By :

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
27/03/2023

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Test Report

Request No : W6604237

Report No : 6604-1812

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 66040949

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 06/04/2023 **

Sampling By : ETC **

Sampling Time : 9:45 AM **

Sampling Method : Grab **

Received Date : 07/04/2023

Tested Date : 07/04/2023 - 22/04/2023

Reported Date : 26/04/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.2	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	50	≤750
Copper @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.35	≤2
Nickel @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤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	32	≤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,

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

26/04/2023



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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

26/04/2023

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THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Test Report

Request No : W6604237

Report No : 6604-1812

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 66040949

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 06/04/2023 **

Sampling By : ETC **

Sampling Time : 9:45 AM **

Sampling Method : Grab **

Received Date : 07/04/2023

Tested Date : 07/04/2023 - 22/04/2023

Reported Date : 26/04/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.58	≤5

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 / Mr. Kawee Suthasub is Technical Management.

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

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

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ท-4377)
26/04/2023



Approved By :

(Mr. Kawee Suthasub)
(จ-003-ท-2205)
26/04/2023

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Test Report

Request No : W6605213

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

Report No : 6605-1931

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

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

Sample No : W 66050845

Sample Name : น้ำทิ้งผ่านระบบบำบัด (Effluent) **

Sampling Date : 09/05/2023 **

Sampling By : ETC **

Sampling Time : 9:20 AM **

Sampling Method : Grab **

Received Date : 10/05/2023

Tested Date : 10/05/2023 - 18/05/2023

Reported Date : 25/05/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand [#]	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.9	≤500
Chemical Oxygen Demand [#]	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	127	≤750
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.55	≤2
Nickel *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤1
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	3.7	≤10
pH (on site) *		Electrometric Method	7.3	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 : 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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017


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

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

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

Examined By : 
(Miss Apiradee Chuen-arom)
(ว-003-ก-4377)
25/05/2023



Approved By : 
(Mr. Kawee Suthasub)
(ว-003-ก-2205)
25/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6605213

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

Report No : 6605-1931

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

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

Sample No : W 66050845

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 09/05/2023 **

Sampling By : ETC **

Sampling Time : 9:20 AM **

Sampling Method : Grab **

Received Date : 10/05/2023

Tested Date : 10/05/2023 - 18/05/2023

Reported Date : 25/05/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.66	≤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. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

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

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-ก-4377)
25/05/2023



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Approved By :

(Mr. Kawee Suthasub)
(1-003-ก-2205)
25/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6606447

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

Report No : 6606-2485

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

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

Sample No : W 66061684

Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) **

Sampling Date : 15/06/2023 **

Sampling By : ETC **

Sampling Time : 8:32 AM **

Sampling Method : Grab **

Received Date : 16/06/2023

Tested Date : 16/06/2023 - 28/06/2023

Reported Date : 30/06/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.9	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	48	≤750
Copper *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.72	≤2
Nickel *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤1
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.6	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	10	≤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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

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

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

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

Examined By :

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

30/06/2023



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Approved By :

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

30/06/2023

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. ** Request No : W6606447
Address : 38/14 Laemchabang Industrial Estate, Moo 5 T. Tungsukla, A. Sriracha, Chonburi 20230 ** Report No : 6606-2485
Sampling Source : Siam Poongsan Metal Co.,Ltd. ** Sample No : W 66061684
Sample Name : น้ำหลังผ่านระบบบำบัด (Effluent) ** Sampling Date : 15/06/2023 **
Sampling By : ETC ** Sampling Time : 8:32 AM **
Sampling Method : Grab ** Received Date : 16/06/2023
Tested Date : 16/06/2023 - 28/06/2023 Reported Date : 30/06/2023

Parameter	Unit	Method	Result	Standard ¹
Zinc *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.41	≤5

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

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-4367)

30/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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 : รีมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00209079 : Type 2

SAMPLE NO. : 00699
MEASURING DATE : 24-25/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME \ DATE	24-25/01/2023 (L_{eq})	UNIT
09:20 - 10:20 ³	69.8	dB(A)
10:20 - 11:20	69.9	dB(A)
11:20 - 12:20	65.5	dB(A)
12:20 - 13:20	69.5	dB(A)
13:20 - 14:20	69.9	dB(A)
14:20 - 15:20	69.8	dB(A)
15:20 - 16:20	65.5	dB(A)
16:20 - 17:20	65.3	dB(A)
17:20 - 18:20	66.8	dB(A)
18:20 - 19:20	65.9	dB(A)
19:20 - 20:20	66.6	dB(A)
20:20 - 21:20	65.7	dB(A)
21:20 - 22:20	65.3	dB(A)
22:20 - 23:20	65.2	dB(A)
23:20 - 00:20	65.1	dB(A)
00:20 - 01:20	66.1	dB(A)
01:20 - 02:20	65.3	dB(A)
02:20 - 03:20	65.2	dB(A)
03:20 - 04:20	65.2	dB(A)
04:20 - 05:20	66.5	dB(A)
05:20 - 06:20	67.4	dB(A)
06:20 - 07:20	66.1	dB(A)
07:20 - 08:20	66.4	dB(A)
08:20 - 09:20	66.3	dB(A)
L_{eq} 24 hr.	67.1	dB(A)
L_{dn}	72.6	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

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

² Notification of Ministry of the Industry B.E. 2548 (2005)

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

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

(Measurement By Ms. Winida Jamporn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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 : รีมรื้อด้านทิศเหนือ
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 : Class 2

SAMPLE NO. : 01450
MEASURING DATE : 07-08/02/2023
RECEIVED DATE : 09/02/2023
REPORTED DATE : 13/02/2023

TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	73.0	dB(A)
10:00 - 11:00	64.4	dB(A)
11:00 - 12:00	72.7	dB(A)
12:00 - 13:00	73.9	dB(A)
13:00 - 14:00	73.4	dB(A)
14:00 - 15:00	67.7	dB(A)
15:00 - 16:00	65.3	dB(A)
16:00 - 17:00	65.8	dB(A)
17:00 - 18:00	65.6	dB(A)
18:00 - 19:00	65.3	dB(A)
19:00 - 20:00	65.5	dB(A)
20:00 - 21:00	65.7	dB(A)
21:00 - 22:00	65.6	dB(A)
22:00 - 23:00	64.9	dB(A)
23:00 - 00:00	65.0	dB(A)
00:00 - 01:00	66.1	dB(A)
01:00 - 02:00	65.0	dB(A)
02:00 - 03:00	65.0	dB(A)
03:00 - 04:00	65.6	dB(A)
04:00 - 05:00	65.2	dB(A)
05:00 - 06:00	66.4	dB(A)
06:00 - 07:00	69.2	dB(A)
07:00 - 08:00	73.1	dB(A)
08:00 - 09:00	75.0	dB(A)
L_{eq} 24 hr.	69.4	dB(A)
L_{dn}	73.5	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

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

² Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Winida Jampaton)



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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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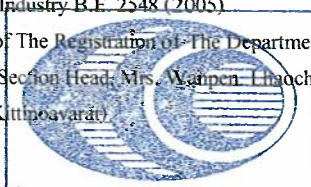
TEST REPORT

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
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dne}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209912 : Class 2

SAMPLE NO. : 02753
MEASURING DATE : 07-08/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 16/03/2023

TIME \ DATE	07-08/03/2023 (L_{eq})	UNIT
08:25 - 09:25 ³	68.2	dB(A)
09:25 - 10:25	67.1	dB(A)
10:25 - 11:25	68.0	dB(A)
11:25 - 12:25	65.3	dB(A)
12:25 - 13:25	66.3	dB(A)
13:25 - 14:25	66.7	dB(A)
14:25 - 15:25	66.2	dB(A)
15:25 - 16:25	65.9	dB(A)
16:25 - 17:25	66.1	dB(A)
17:25 - 18:25	68.4	dB(A)
18:25 - 19:25	65.7	dB(A)
19:25 - 20:25	65.8	dB(A)
20:25 - 21:25	65.8	dB(A)
21:25 - 22:25	65.2	dB(A)
22:25 - 23:25	65.9	dB(A)
23:25 - 00:25	65.0	dB(A)
00:25 - 01:25	68.8	dB(A)
01:25 - 02:25	65.8	dB(A)
02:25 - 03:25	65.0	dB(A)
03:25 - 04:25	64.9	dB(A)
04:25 - 05:25	65.9	dB(A)
05:25 - 06:25	65.6	dB(A)
06:25 - 07:25	66.5	dB(A)
07:25 - 08:25	67.4	dB(A)
L_{eq} 24 hr.	66.5	dB(A)
L_{dne}	72.6	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
² Notification of Ministry of the Industry B.E. 2548 (2005)
³ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Ms. Savita Kittinoovaratt)



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Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

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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 : ริมรั้วด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00443359 : Class 2

SAMPLE NO. : 04257
MEASURING DATE : 05-06/04/2023
RECEIVED DATE : 08/04/2023
REPORTED DATE : 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{1/3}	64.8	dB(A)
10:00 - 11:00	63.5	dB(A)
11:00 - 12:00	63.1	dB(A)
12:00 - 13:00	62.9	dB(A)
13:00 - 14:00	65.9	dB(A)
14:00 - 15:00	68.5	dB(A)
15:00 - 16:00	64.6	dB(A)
16:00 - 17:00	63.3	dB(A)
17:00 - 18:00	63.6	dB(A)
18:00 - 19:00	66.5	dB(A)
19:00 - 20:00	67.6	dB(A)
20:00 - 21:00	64.4	dB(A)
21:00 - 22:00	66.6	dB(A)
22:00 - 23:00	64.4	dB(A)
23:00 - 00:00	63.2	dB(A)
00:00 - 01:00	65.8	dB(A)
01:00 - 02:00	64.7	dB(A)
02:00 - 03:00	63.1	dB(A)
03:00 - 04:00	62.6	dB(A)
04:00 - 05:00	64.8	dB(A)
05:00 - 06:00	64.7	dB(A)
06:00 - 07:00	64.3	dB(A)
07:00 - 08:00	64.5	dB(A)
08:00 - 09:00	65.8	dB(A)
L_{eq} 24 hr.	65.0	dB(A)
$L_{dn\#}$	70.9	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	dB(A)

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

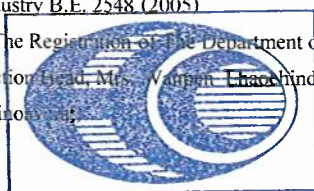
^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} 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. Savita Kittinont)



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

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

COPY

Request No. LA66-R0571

Report No. R6606-2813

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
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209912 : Class 2

SAMPLE NO. : 09903
MEASURING DATE : 16-17/05/2023
RECEIVED DATE : 18/05/2023
REPORTED DATE : 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:35 - 10:35 ³	71.9	dB(A)
10:35 - 11:35	66.0	dB(A)
11:35 - 12:35	65.3	dB(A)
12:35 - 13:35	73.3	dB(A)
13:35 - 14:35	74.6	dB(A)
14:35 - 15:35	72.6	dB(A)
15:35 - 16:35	74.3	dB(A)
16:35 - 17:35	70.1	dB(A)
17:35 - 18:35	73.7	dB(A)
18:35 - 19:35	65.8	dB(A)
19:35 - 20:35	66.2	dB(A)
20:35 - 21:35	65.2	dB(A)
21:35 - 22:35	64.6	dB(A)
22:35 - 23:35	67.9	dB(A)
23:35 - 00:35	64.4	dB(A)
00:35 - 01:35	65.5	dB(A)
01:35 - 02:35	65.1	dB(A)
02:35 - 03:35	66.9	dB(A)
03:35 - 04:35	63.7	dB(A)
04:35 - 05:35	64.2	dB(A)
05:35 - 06:35	6.6	dB(A)
06:35 - 07:35	65.8	dB(A)
07:35 - 08:35	71.2	dB(A)
08:35 - 09:35	71.3	dB(A)
L_{eq} 24 hr.	69.7	dB(A)
L_{dn}	73.0	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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

COPY

Request No. LA66-R0659

Report No. R6606-2387

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
 PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
 DETERMINATION METHOD : ISO 1996-1:2016
 INSTRUMENT : Integrated Sound Level Meter S/N 00310456 : Class 2

SAMPLE NO. : 13592
 MEASURING DATE : 13-14/06/2023
 RECEIVED DATE : 15/06/2023
 REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	69.8	dB(A)
10:00 - 11:00	69.1	dB(A)
11:00 - 12:00	67.7	dB(A)
12:00 - 13:00	67.8	dB(A)
13:00 - 14:00	69.2	dB(A)
14:00 - 15:00	69.3	dB(A)
15:00 - 16:00	68.1	dB(A)
16:00 - 17:00	68.3	dB(A)
17:00 - 18:00	67.7	dB(A)
18:00 - 19:00	69.0	dB(A)
19:00 - 20:00	63.9	dB(A)
20:00 - 21:00	63.4	dB(A)
21:00 - 22:00	64.5	dB(A)
22:00 - 23:00	65.9	dB(A)
23:00 - 00:00	65.0	dB(A)
00:00 - 01:00	64.5	dB(A)
01:00 - 02:00	65.6	dB(A)
02:00 - 03:00	69.0	dB(A)
03:00 - 04:00	62.7	dB(A)
04:00 - 05:00	62.0	dB(A)
05:00 - 06:00	66.9	dB(A)
06:00 - 07:00	65.4	dB(A)
07:00 - 08:00	65.1	dB(A)
08:00 - 09:00	64.3	dB(A)
L_{eq} 24 hr.	67.0	dB(A)
L_{dn}	72.4	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Measurement By Ms. Pornnapha Phongphet)



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)

22/06/2023

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. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209915 : Type 2

SAMPLE NO. : 00703
MEASURING DATE : 24-25/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME \ DATE	24-25/01/2023 (L_{eq})	UNIT
09:35 - 10:35 ³	60.7	dB(A)
10:35 - 11:35	59.8	dB(A)
11:35 - 12:35	57.9	dB(A)
12:35 - 13:35	64.1	dB(A)
13:35 - 14:35	60.8	dB(A)
14:35 - 15:35	63.9	dB(A)
15:35 - 16:35	61.2	dB(A)
16:35 - 17:35	60.9	dB(A)
17:35 - 18:35	65.0	dB(A)
18:35 - 19:35	60.6	dB(A)
19:35 - 20:35	57.7	dB(A)
20:35 - 21:35	58.2	dB(A)
21:35 - 22:35	57.7	dB(A)
22:35 - 23:35	58.2	dB(A)
23:35 - 00:35	56.2	dB(A)
00:35 - 01:35	57.4	dB(A)
01:35 - 02:35	56.9	dB(A)
02:35 - 03:35	56.1	dB(A)
03:35 - 04:35	54.7	dB(A)
04:35 - 05:35	57.2	dB(A)
05:35 - 06:35	60.3	dB(A)
06:35 - 07:35	61.9	dB(A)
07:35 - 08:35	62.4	dB(A)
08:35 - 09:35	64.2	dB(A)
L_{eq} 24 hr.	60.7	dB(A)
$L_{dn\#}$	64.8	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

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

² Notification of Ministry of the Industry B.E. 2548 (2005)

³ Start Time

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

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

(Measurement By Ms. Winida Jamporn)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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

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 : รีมรื้อด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00209079 : Class 2

SAMPLE NO. : 01451
MEASURING DATE : 07-08/02/2023
RECEIVED DATE : 09/02/2023
REPORTED DATE : 13/02/2023

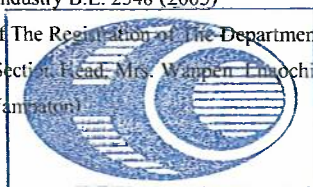
TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:10 - 10:10 ³	75.3	dB(A)
10:10 - 11:10	74.5	dB(A)
11:10 - 12:10	69.9	dB(A)
12:10 - 13:10	72.4	dB(A)
13:10 - 14:10	73.2	dB(A)
14:10 - 15:10	75.2	dB(A)
15:10 - 16:10	74.2	dB(A)
16:10 - 17:10	79.3	dB(A)
17:10 - 18:10	76.2	dB(A)
18:10 - 19:10	73.1	dB(A)
19:10 - 20:10	73.1	dB(A)
20:10 - 21:10	73.2	dB(A)
21:10 - 22:10	67.8	dB(A)
22:10 - 23:10	66.3	dB(A)
23:10 - 00:10	68.3	dB(A)
00:10 - 01:10	70.0	dB(A)
01:10 - 02:10	73.0	dB(A)
02:10 - 03:10	67.0	dB(A)
03:10 - 04:10	67.3	dB(A)
04:10 - 05:10	69.1	dB(A)
05:10 - 06:10	71.2	dB(A)
06:10 - 07:10	74.8	dB(A)
07:10 - 08:10	74.4	dB(A)
08:10 - 09:10	76.0	dB(A)
L_{eq} 24 hr.	73.5	dB(A)
$L_{dn\#}$	77.8	dB(A)
Standard	70 ^{1/1} , 70 ^{1/2}	dB(A)

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

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} 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. Winida Jantanon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

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 : รีมรีว้านทิสโก้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00209079 : Class 2

SAMPLE NO. : 02752
MEASURING DATE : 07-08/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 16/03/2023

TIME \ DATE	07-08/03/2023 (L_{eq})	UNIT
08:35 - 09:35 ^{1/3}	59.9	dB(A)
09:35 - 10:35	58.6	dB(A)
10:35 - 11:35	62.9	dB(A)
11:35 - 12:35	55.8	dB(A)
12:35 - 13:35	67.4	dB(A)
13:35 - 14:35	62.3	dB(A)
14:35 - 15:35	58.8	dB(A)
15:35 - 16:35	57.9	dB(A)
16:35 - 17:35	62.5	dB(A)
17:35 - 18:35	59.0	dB(A)
18:35 - 19:35	60.1	dB(A)
19:35 - 20:35	59.5	dB(A)
20:35 - 21:35	64.4	dB(A)
21:35 - 22:35	57.8	dB(A)
22:35 - 23:35	53.4	dB(A)
23:35 - 00:35	59.7	dB(A)
00:35 - 01:35	55.1	dB(A)
01:35 - 02:35	53.9	dB(A)
02:35 - 03:35	53.8	dB(A)
03:35 - 04:35	52.7	dB(A)
04:35 - 05:35	54.4	dB(A)
05:35 - 06:35	59.4	dB(A)
06:35 - 07:35	59.9	dB(A)
07:35 - 08:35	59.6	dB(A)
L_{eq} 24 hr.	60.3	dB(A)
$L_{dn\#}$	64.0	dB(A)
Standard	70 ^{1/1} , 70 ^{1/2}	dB(A)

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

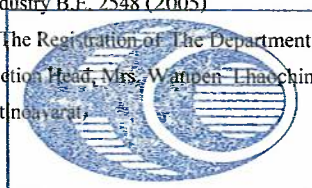
^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} 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. Savita Kittinavarat)



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.....
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

COPY

TEST REPORT

CUSTOMER : Siam Poongsan Metal Co., Ltd.
ADDRESS : 38/14 Moo 5 T. Tungskula A. Sriracha, Chonburi 20230
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.
SAMPLE POINT : รีมรีว้านทิสใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209914 : Class 2

SAMPLE NO. : 04258
MEASURING DATE : 05-06/04/2023
RECEIVED DATE : 08/04/2023
REPORTED DATE : 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	60.6	dB(A)
10:00 - 11:00	59.8	dB(A)
11:00 - 12:00	59.9	dB(A)
12:00 - 13:00	55.4	dB(A)
13:00 - 14:00	59.8	dB(A)
14:00 - 15:00	62.8	dB(A)
15:00 - 16:00	61.3	dB(A)
16:00 - 17:00	59.7	dB(A)
17:00 - 18:00	59.0	dB(A)
18:00 - 19:00	63.9	dB(A)
19:00 - 20:00	59.3	dB(A)
20:00 - 21:00	62.4	dB(A)
21:00 - 22:00	60.4	dB(A)
22:00 - 23:00	55.8	dB(A)
23:00 - 00:00	54.9	dB(A)
00:00 - 01:00	54.5	dB(A)
01:00 - 02:00	55.5	dB(A)
02:00 - 03:00	57.0	dB(A)
03:00 - 04:00	54.7	dB(A)
04:00 - 05:00	52.9	dB(A)
05:00 - 06:00	57.5	dB(A)
06:00 - 07:00	57.9	dB(A)
07:00 - 08:00	60.4	dB(A)
08:00 - 09:00	62.4	dB(A)
L_{eq} 24 hr.	59.6	dB(A)
L_{dn}	63.5	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

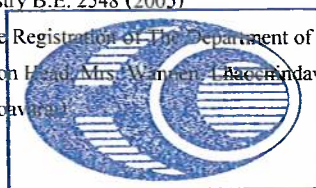
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Savita Kittinavarn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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COPY

Request No. LA66-R0571

Report No. R6606-2814

TEST REPORT

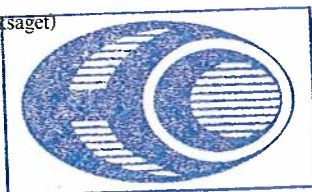
CUSTOMER : Siam Poongsan Metal Co., Ltd.
ADDRESS : 38/14 Moo 5 T. Tungskula A. Sriracha, Chonburi 20230
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.
SAMPLE POINT : ริมรั้วด้านทิศใต้
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00322748 : Class 2

SAMPLE NO. : 09904
MEASURING DATE : 16-17/05/2023
RECEIVED DATE : 18/05/2023
REPORTED DATE : 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:15 - 10:15 ³	59.0	dB(A)
10:15 - 11:15	57.9	dB(A)
11:15 - 12:15	56.5	dB(A)
12:15 - 13:15	54.6	dB(A)
13:15 - 14:15	58.0	dB(A)
14:15 - 15:15	58.8	dB(A)
15:15 - 16:15	58.2	dB(A)
16:15 - 17:15	59.5	dB(A)
17:15 - 18:15	63.6	dB(A)
18:15 - 19:15	60.2	dB(A)
19:15 - 20:15	58.7	dB(A)
20:15 - 21:15	55.0	dB(A)
21:15 - 22:15	53.6	dB(A)
22:15 - 23:15	63.1	dB(A)
23:15 - 00:15	54.6	dB(A)
00:15 - 01:15	52.8	dB(A)
01:15 - 02:15	52.7	dB(A)
02:15 - 03:15	53.1	dB(A)
03:15 - 04:15	51.5	dB(A)
04:15 - 05:15	53.8	dB(A)
05:15 - 06:15	56.5	dB(A)
06:15 - 07:15	60.0	dB(A)
07:15 - 08:15	59.3	dB(A)
08:15 - 09:15	60.8	dB(A)
L_{eq} 24 hr.	58.4	dB(A)
L_{dn}	63.9	dB(A)
Standard	$70^{1, 2}$	dB(A)

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

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Jutarat Sutsaget)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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COPY

Request No. LA66-R0659

Report No. R6606-2388

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}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00222594 : Class 2

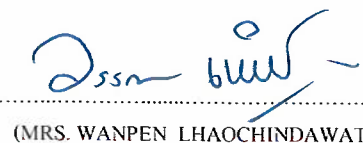
SAMPLE NO. : 13593
MEASURING DATE : 13-14/06/2023
RECEIVED DATE : 15/06/2023
REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023 (L_{eq})	UNIT
09:10 - 10:10 ³	62.1	dB(A)
10:10 - 11:10	60.2	dB(A)
11:10 - 12:10	58.5	dB(A)
12:10 - 13:10	61.8	dB(A)
13:10 - 14:10	60.0	dB(A)
14:10 - 15:10	67.0	dB(A)
15:10 - 16:10	63.6	dB(A)
16:10 - 17:10	60.8	dB(A)
17:10 - 18:10	60.1	dB(A)
18:10 - 19:10	60.0	dB(A)
19:10 - 20:10	59.4	dB(A)
20:10 - 21:10	58.0	dB(A)
21:10 - 22:10	57.5	dB(A)
22:10 - 23:10	57.5	dB(A)
23:10 - 00:10	66.1	dB(A)
00:10 - 01:10	56.7	dB(A)
01:10 - 02:10	57.6	dB(A)
02:10 - 03:10	57.5	dB(A)
03:10 - 04:10	54.1	dB(A)
04:10 - 05:10	53.4	dB(A)
05:10 - 06:10	58.3	dB(A)
06:10 - 07:10	60.1	dB(A)
07:10 - 08:10	59.6	dB(A)
08:10 - 09:10	60.9	dB(A)
L_{eq} 24 hr.	60.8	dB(A)
L_{dn}	66.4	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Pornnapa Phong)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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 : รีมรั้วลานกิตตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00310456 : Type 2

SAMPLE NO. : 00700
MEASURING DATE : 24-25/01/2023
RECEIVED DATE : 26/01/2023
REPORTED DATE : 31/01/2023

TIME \ DATE	24-25/01/2023 (L_{eq})	UNIT
10:10 - 11:10 ³	60.4	dB(A)
11:10 - 12:10	55.2	dB(A)
12:10 - 13:10	57.2	dB(A)
13:10 - 14:10	62.1	dB(A)
14:10 - 15:10	61.4	dB(A)
15:10 - 16:10	64.2	dB(A)
16:10 - 17:10	64.1	dB(A)
17:10 - 18:10	59.8	dB(A)
18:10 - 19:10	50.0	dB(A)
19:10 - 20:10	48.4	dB(A)
20:10 - 21:10	43.3	dB(A)
21:10 - 22:10	45.4	dB(A)
22:10 - 23:10	48.0	dB(A)
23:10 - 00:10	50.0	dB(A)
00:10 - 01:10	44.5	dB(A)
01:10 - 02:10	48.7	dB(A)
02:10 - 03:10	46.6	dB(A)
03:10 - 04:10	42.7	dB(A)
04:10 - 05:10	41.3	dB(A)
05:10 - 06:10	48.9	dB(A)
06:10 - 07:10	56.4	dB(A)
07:10 - 08:10	53.1	dB(A)
08:10 - 09:10	56.6	dB(A)
09:10 - 10:10	54.8	dB(A)
L_{eq} 24 hr.	57.4	dB(A)
$L_{dn\#}$	59.4	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

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

² Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Winida Jampat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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 : รีมรูด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209912 : Class 2

SAMPLE NO. : 01449
MEASURING DATE : 07-08/02/2023
RECEIVED DATE : 09/02/2023
REPORTED DATE : 13/02/2023

TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:15 - 10:15 ^{/3}	63.7	dB(A)
10:15 - 11:15	60.1	dB(A)
11:15 - 12:15	59.4	dB(A)
12:15 - 13:15	60.7	dB(A)
13:15 - 14:15	61.9	dB(A)
14:15 - 15:15	62.0	dB(A)
15:15 - 16:15	60.2	dB(A)
16:15 - 17:15	61.4	dB(A)
17:15 - 18:15	56.7	dB(A)
18:15 - 19:15	57.7	dB(A)
19:15 - 20:15	57.7	dB(A)
20:15 - 21:15	57.7	dB(A)
21:15 - 22:15	57.6	dB(A)
22:15 - 23:15	56.9	dB(A)
23:15 - 00:15	57.2	dB(A)
00:15 - 01:15	57.1	dB(A)
01:15 - 02:15	56.0	dB(A)
02:15 - 03:15	56.5	dB(A)
03:15 - 04:15	56.5	dB(A)
04:15 - 05:15	56.5	dB(A)
05:15 - 06:15	56.6	dB(A)
06:15 - 07:15	55.9	dB(A)
07:15 - 08:15	62.2	dB(A)
08:15 - 09:15	62.8	dB(A)
L_{eq} 24 hr.	59.5	dB(A)
$L_{dn\#}$	63.9	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

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

^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Winida Jampaton)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

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_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209915 : Class 2

SAMPLE NO. : 02755
MEASURING DATE : 07-08/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 16/03/2023

TIME \ DATE	07-08/03/2023 (L_{eq})	UNIT
08:40 - 09:40 ^{/3}	62.3	dB(A)
09:40 - 10:40	64.0	dB(A)
10:40 - 11:40	62.2	dB(A)
11:40 - 12:40	63.5	dB(A)
12:40 - 13:40	63.0	dB(A)
13:40 - 14:40	60.8	dB(A)
14:40 - 15:40	61.5	dB(A)
15:40 - 16:40	62.4	dB(A)
16:40 - 17:40	59.0	dB(A)
17:40 - 18:40	63.8	dB(A)
18:40 - 19:40	55.6	dB(A)
19:40 - 20:40	56.9	dB(A)
20:40 - 21:40	56.7	dB(A)
21:40 - 22:40	56.9	dB(A)
22:40 - 23:40	55.6	dB(A)
23:40 - 00:40	56.0	dB(A)
00:40 - 01:40	55.9	dB(A)
01:40 - 02:40	55.5	dB(A)
02:40 - 03:40	54.9	dB(A)
03:40 - 04:40	54.8	dB(A)
04:40 - 05:40	55.1	dB(A)
05:40 - 06:40	54.9	dB(A)
06:40 - 07:40	62.3	dB(A)
07:40 - 08:40	59.2	dB(A)
L_{eq} 24 hr.	60.1	dB(A)
L_{dn}	63.5	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

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

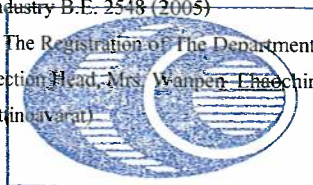
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Savita Kitinavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..... 

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

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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 : ริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00209071 : Class 2

SAMPLE NO. : 04255
MEASURING DATE : 05-06/04/2023
RECEIVED DATE : 08/04/2023
REPORTED DATE : 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	67.7	dB(A)
10:00 - 11:00	60.7	dB(A)
11:00 - 12:00	59.9	dB(A)
12:00 - 13:00	57.8	dB(A)
13:00 - 14:00	58.6	dB(A)
14:00 - 15:00	60.4	dB(A)
15:00 - 16:00	59.7	dB(A)
16:00 - 17:00	58.0	dB(A)
17:00 - 18:00	57.1	dB(A)
18:00 - 19:00	59.0	dB(A)
19:00 - 20:00	56.4	dB(A)
20:00 - 21:00	58.4	dB(A)
21:00 - 22:00	58.5	dB(A)
22:00 - 23:00	56.1	dB(A)
23:00 - 00:00	55.8	dB(A)
00:00 - 01:00	56.1	dB(A)
01:00 - 02:00	56.2	dB(A)
02:00 - 03:00	55.9	dB(A)
03:00 - 04:00	56.5	dB(A)
04:00 - 05:00	55.3	dB(A)
05:00 - 06:00	56.8	dB(A)
06:00 - 07:00	55.3	dB(A)
07:00 - 08:00	55.2	dB(A)
08:00 - 09:00	58.7	dB(A)
L_{eq} 24 hr.	59.2	dB(A)
L_{dn}	63.4	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

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

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

² Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Savita Kittinawarat)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

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Request No. LA66-R0571

Report No. R6606-2815

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_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00322749 : Class 2

SAMPLE NO. : 09995
MEASURING DATE : 16-17/05/2023
RECEIVED DATE : 18/05/2023
REPORTED DATE : 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:20 - 10:20 ³	59.0	dB(A)
10:20 - 11:20	58.7	dB(A)
11:20 - 12:20	58.9	dB(A)
12:20 - 13:20	58.8	dB(A)
13:20 - 14:20	59.5	dB(A)
14:20 - 15:20	64.5	dB(A)
15:20 - 16:20	63.9	dB(A)
16:20 - 17:20	57.4	dB(A)
17:20 - 18:20	57.4	dB(A)
18:20 - 19:20	59.8	dB(A)
19:20 - 20:20	59.2	dB(A)
20:20 - 21:20	59.7	dB(A)
21:20 - 22:20	63.8	dB(A)
22:20 - 23:20	60.3	dB(A)
23:20 - 00:20	57.6	dB(A)
00:20 - 01:20	57.1	dB(A)
01:20 - 02:20	58.3	dB(A)
02:20 - 03:20	59.8	dB(A)
03:20 - 04:20	64.1	dB(A)
04:20 - 05:20	57.0	dB(A)
05:20 - 06:20	62.3	dB(A)
06:20 - 07:20	62.4	dB(A)
07:20 - 08:20	60.7	dB(A)
08:20 - 09:20	58.8	dB(A)
L_{eq} 24 hr.	60.6	dB(A)
L_{dn}	67.0	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Jutarat Saksaget)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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

COPY

Request No. LA66-R0659

Report No. R6606-2389

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_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00322754 : Class 2

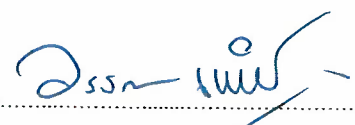
SAMPLE NO. : 13594
MEASURING DATE : 13-14/06/2023
RECEIVED DATE : 15/06/2023
REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023 (L_{eq})	UNIT
09:05 - 10:05 ^{/3}	63.6	dB(A)
10:05 - 11:05	60.2	dB(A)
11:05 - 12:05	59.5	dB(A)
12:05 - 13:05	57.9	dB(A)
13:05 - 14:05	62.0	dB(A)
14:05 - 15:05	60.3	dB(A)
15:05 - 16:05	61.1	dB(A)
16:05 - 17:05	60.9	dB(A)
17:05 - 18:05	58.1	dB(A)
18:05 - 19:05	60.5	dB(A)
19:05 - 20:05	57.5	dB(A)
20:05 - 21:05	58.7	dB(A)
21:05 - 22:05	57.4	dB(A)
22:05 - 23:05	58.2	dB(A)
23:05 - 00:05	57.3	dB(A)
00:05 - 01:05	57.3	dB(A)
01:05 - 02:05	57.4	dB(A)
02:05 - 03:05	57.2	dB(A)
03:05 - 04:05	56.1	dB(A)
04:05 - 05:05	55.2	dB(A)
05:05 - 06:05	55.0	dB(A)
06:05 - 07:05	56.9	dB(A)
07:05 - 08:05	60.2	dB(A)
08:05 - 09:05	59.7	dB(A)
L_{eq} 24 hr.	59.2	dB(A)
L_{dn}	63.9	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

REMARK : ^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)^{/3} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Pornnapha Phonwatt)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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TEST REPORT

CUSTOMER	: Siam Poongsan Metal Co., Ltd.	SAMPLE NO.	: 00701
ADDRESS	: 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230	MEASURING DATE	: 24-25/01/2023
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.	RECEIVED DATE	: 26/01/2023
SAMPLE POINT	: รีมรวิวัฒน์ทิศตะวันตก	REPORTED DATE	: 31/01/2023
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	24-25/01/2023 (L_{eq})	UNIT
09:45 - 10:45 ^{1/3}	62.1	dB(A)
10:45 - 11:45	61.9	dB(A)
11:45 - 12:45	61.3	dB(A)
12:45 - 13:45	61.2	dB(A)
13:45 - 14:45	61.5	dB(A)
14:45 - 15:45	61.9	dB(A)
15:45 - 16:45	61.2	dB(A)
16:45 - 17:45	63.0	dB(A)
17:45 - 18:45	63.5	dB(A)
18:45 - 19:45	62.7	dB(A)
19:45 - 20:45	62.6	dB(A)
20:45 - 21:45	61.1	dB(A)
21:45 - 22:45	61.1	dB(A)
22:45 - 23:45	61.3	dB(A)
23:45 - 00:45	61.1	dB(A)
00:45 - 01:45	61.0	dB(A)
01:45 - 02:45	60.9	dB(A)
02:45 - 03:45	61.0	dB(A)
03:45 - 04:45	60.7	dB(A)
04:45 - 05:45	61.5	dB(A)
05:45 - 06:45	62.2	dB(A)
06:45 - 07:45	63.8	dB(A)
07:45 - 08:45	63.5	dB(A)
08:45 - 09:45	62.4	dB(A)
L_{eq} 24 hr.	62.0	dB(A)
$L_{dn\#}$	67.8	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	dB(A)

REMARK : ^{1/3} Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{1/2} 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, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Winida Jampatong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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 : รีมรีวด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dnt}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209914 : Class 2

SAMPLE NO. : 01452
MEASURING DATE : 07-08/02/2023
RECEIVED DATE : 09/02/2023
REPORTED DATE : 13/02/2023

TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:20 - 10:20 ^{/3}	62.4	dB(A)
10:20 - 11:20	63.1	dB(A)
11:20 - 12:20	62.2	dB(A)
12:20 - 13:20	61.9	dB(A)
13:20 - 14:20	62.5	dB(A)
14:20 - 15:20	62.8	dB(A)
15:20 - 16:20	62.8	dB(A)
16:20 - 17:20	64.0	dB(A)
17:20 - 18:20	63.4	dB(A)
18:20 - 19:20	64.4	dB(A)
19:20 - 20:20	63.9	dB(A)
20:20 - 21:20	62.5	dB(A)
21:20 - 22:20	62.2	dB(A)
22:20 - 23:20	61.8	dB(A)
23:20 - 00:20	61.9	dB(A)
00:20 - 01:20	61.7	dB(A)
01:20 - 02:20	61.4	dB(A)
02:20 - 03:20	60.8	dB(A)
03:20 - 04:20	60.6	dB(A)
04:20 - 05:20	61.8	dB(A)
05:20 - 06:20	62.3	dB(A)
06:20 - 07:20	64.3	dB(A)
07:20 - 08:20	63.5	dB(A)
08:20 - 09:20	63.2	dB(A)
L_{eq} 24 hr.	62.7	dB(A)
L_{dnt}	68.6	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

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

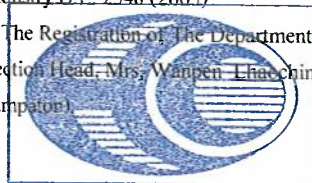
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Winida Jampator)



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

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TEST REPORT

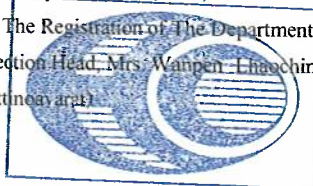
CUSTOMER : Siam Poongsan Metal Co., Ltd.
ADDRESS : 38/14 Moo 5 T. Tungsukla A. Sriracha, Chonburi 20230
SAMPLE SOURCE : Siam Poongsan Metal Co., Ltd.
SAMPLE POINT : ริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01209914 : Class 2

SAMPLE NO. : 02754
MEASURING DATE : 07-08/03/2023
RECEIVED DATE : 10/03/2023
REPORTED DATE : 16/03/2023

TIME \ DATE	07-08/03/2023 (L_{eq})	UNIT
08:30 - 09:30 ^{/3}	62.8	dB(A)
09:30 - 10:30	62.5	dB(A)
10:30 - 11:30	62.4	dB(A)
11:30 - 12:30	61.8	dB(A)
12:30 - 13:30	67.9	dB(A)
13:30 - 14:30	62.8	dB(A)
14:30 - 15:30	62.5	dB(A)
15:30 - 16:30	62.6	dB(A)
16:30 - 17:30	63.7	dB(A)
17:30 - 18:30	63.4	dB(A)
18:30 - 19:30	64.6	dB(A)
19:30 - 20:30	64.1	dB(A)
20:30 - 21:30	62.8	dB(A)
21:30 - 22:30	62.2	dB(A)
22:30 - 23:30	62.0	dB(A)
23:30 - 00:30	62.0	dB(A)
00:30 - 01:30	62.1	dB(A)
01:30 - 02:30	62.2	dB(A)
02:30 - 03:30	61.6	dB(A)
03:30 - 04:30	61.3	dB(A)
04:30 - 05:30	61.8	dB(A)
05:30 - 06:30	63.5	dB(A)
06:30 - 07:30	63.8	dB(A)
07:30 - 08:30	64.6	dB(A)
L_{eq} 24 hr.	63.2	dB(A)
L_{dn}	69.0	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* 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. Savita Kittinoavarat)



Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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 POINT : รีมรื้อด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr. & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00310456 : Class 2

SAMPLE NO. : 04256
MEASURING DATE : 05-06/04/2023
RECEIVED DATE : 08/04/2023
REPORTED DATE : 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{1/3}	59.6	dB(A)
10:00 - 11:00	58.8	dB(A)
11:00 - 12:00	58.0	dB(A)
12:00 - 13:00	57.7	dB(A)
13:00 - 14:00	58.1	dB(A)
14:00 - 15:00	58.8	dB(A)
15:00 - 16:00	58.3	dB(A)
16:00 - 17:00	57.9	dB(A)
17:00 - 18:00	58.5	dB(A)
18:00 - 19:00	59.1	dB(A)
19:00 - 20:00	60.3	dB(A)
20:00 - 21:00	60.0	dB(A)
21:00 - 22:00	57.8	dB(A)
22:00 - 23:00	57.7	dB(A)
23:00 - 00:00	57.1	dB(A)
00:00 - 01:00	56.9	dB(A)
01:00 - 02:00	56.7	dB(A)
02:00 - 03:00	56.5	dB(A)
03:00 - 04:00	56.6	dB(A)
04:00 - 05:00	56.6	dB(A)
05:00 - 06:00	57.8	dB(A)
06:00 - 07:00	59.4	dB(A)
07:00 - 08:00	62.3	dB(A)
08:00 - 09:00	61.9	dB(A)
L_{eq} 24 hr.	58.7	dB(A)
L_{dn}	64.1	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
^{1/2} 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. Savita Kittinonwatt)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

20/04/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA66-R0571

Report No. R6606-2816

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 00322751 : Class 2

SAMPLE NO. : 09906
MEASURING DATE : 16-17/05/2023
RECEIVED DATE : 18/05/2023
REPORTED DATE : 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:05 - 10:05 ³	60.1	dB(A)
10:05 - 11:05	59.9	dB(A)
11:05 - 12:05	60.3	dB(A)
12:05 - 13:05	59.0	dB(A)
13:05 - 14:05	59.7	dB(A)
14:05 - 15:05	59.5	dB(A)
15:05 - 16:05	59.4	dB(A)
16:05 - 17:05	59.7	dB(A)
17:05 - 18:05	60.8	dB(A)
18:05 - 19:05	61.6	dB(A)
19:05 - 20:05	62.0	dB(A)
20:05 - 21:05	61.2	dB(A)
21:05 - 22:05	59.9	dB(A)
22:05 - 23:05	59.5	dB(A)
23:05 - 00:05	59.8	dB(A)
00:05 - 01:05	59.1	dB(A)
01:05 - 02:05	59.0	dB(A)
02:05 - 03:05	59.1	dB(A)
03:05 - 04:05	58.5	dB(A)
04:05 - 05:05	57.9	dB(A)
05:05 - 06:05	60.0	dB(A)
06:05 - 07:05	60.8	dB(A)
07:05 - 08:05	62.2	dB(A)
08:05 - 09:05	62.9	dB(A)
L_{eq} 24 hr.	60.3	dB(A)
L_{dn}	66.0	dB(A)
Standard	70 ¹ , 70 ²	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)² Notification of Ministry of the Industry B.E. 2548 (2005)³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Jutarat Suksaget)

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA66-R0659

Report No. R6606-2390

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter S/N 01147300 : Class 2

SAMPLE NO. : 13595
MEASURING DATE : 13-14/06/2023
RECEIVED DATE : 15/06/2023
REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023 (L_{eq})	UNIT
09:20 - 10:20 ^{/3}	61.6	dB(A)
10:20 - 11:20	60.9	dB(A)
11:20 - 12:20	60.8	dB(A)
12:20 - 13:20	60.0	dB(A)
13:20 - 14:20	60.5	dB(A)
14:20 - 15:20	60.7	dB(A)
15:20 - 16:20	60.6	dB(A)
16:20 - 17:20	62.1	dB(A)
17:20 - 18:20	61.0	dB(A)
18:20 - 19:20	59.9	dB(A)
19:20 - 20:20	62.4	dB(A)
20:20 - 21:20	61.0	dB(A)
21:20 - 22:20	59.4	dB(A)
22:20 - 23:20	59.2	dB(A)
23:20 - 00:20	59.1	dB(A)
00:20 - 01:20	58.3	dB(A)
01:20 - 02:20	58.7	dB(A)
02:20 - 03:20	58.4	dB(A)
03:20 - 04:20	58.3	dB(A)
04:20 - 05:20	58.7	dB(A)
05:20 - 06:20	60.2	dB(A)
06:20 - 07:20	62.4	dB(A)
07:20 - 08:20	64.3	dB(A)
08:20 - 09:20	62.8	dB(A)
L_{eq} 24 hr.	60.8	dB(A)
L_{dn}	66.2	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	dB(A)

REMARK : ^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)^{/3} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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	: Melting		
PARAMETER*	: L_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 00704
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/01/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/01/2023
	S/N 01209912 : Type 2	REPORTED DATE	: 31/01/2023

TIME \ DATE	25-26/01/2023 (L_{eq})	UNIT
09:20 - 10:20 ^{/3}	80.8	dB(A)
10:20 - 11:20	81.3	dB(A)
11:20 - 12:20	81.2	dB(A)
12:20 - 13:20	81.1	dB(A)
13:20 - 14:20	81.4	dB(A)
14:20 - 15:20	82.4	dB(A)
15:20 - 16:20	81.9	dB(A)
16:20 - 17:20	80.3	dB(A)
17:20 - 18:20	81.6	dB(A)
18:20 - 19:20	81.5	dB(A)
19:20 - 20:20	80.6	dB(A)
20:20 - 21:20	81.2	dB(A)
21:20 - 22:20	81.3	dB(A)
22:20 - 23:20	81.7	dB(A)
23:20 - 00:20	81.3	dB(A)
00:20 - 01:20	81.2	dB(A)
01:20 - 02:20	81.1	dB(A)
02:20 - 03:20	80.7	dB(A)
03:20 - 04:20	80.9	dB(A)
04:20 - 05:20	81.5	dB(A)
05:20 - 06:20	80.5	dB(A)
06:20 - 07:20	80.8	dB(A)
07:20 - 08:20	80.8	dB(A)
08:20 - 09:20	81.5	dB(A)
L_{eq} 24 hr.	81.2	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:20 - 17:20 น. = 81 17:20 - 01:20 น. = 81 01:20 - 09:20 น. = 80	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:20 - 17:20 น. = 81 17:20 - 01:20 น. = 81 01:20 - 09:20 น. = 80	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Tungsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Winda Jongsuwan)



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

31/01/2023

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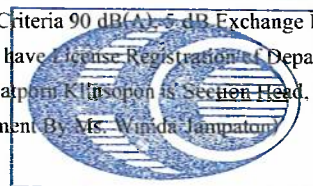
TEST REPORT

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 01456
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/02/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 09/02/2023
	S/N 01209912 : Class 2	REPORTED DATE	: 13/02/2023

TIME \ DATE	08-09/02/2023 (L_{eq})	UNIT
10:20 - 11:20 ^{/3}	81.2	dB(A)
11:20 - 12:20	82.8	dB(A)
12:20 - 13:20	81.7	dB(A)
13:20 - 14:20	81.2	dB(A)
14:20 - 15:20	82.7	dB(A)
15:20 - 16:20	81.3	dB(A)
16:20 - 17:20	81.9	dB(A)
17:20 - 18:20	82.6	dB(A)
18:20 - 19:20	80.8	dB(A)
19:20 - 20:20	82.4	dB(A)
20:20 - 21:20	81.2	dB(A)
21:20 - 22:20	82.5	dB(A)
22:20 - 23:20	82.5	dB(A)
23:20 - 00:20	81.5	dB(A)
00:20 - 01:20	82.0	dB(A)
01:20 - 02:20	82.4	dB(A)
02:20 - 03:20	81.5	dB(A)
03:20 - 04:20	81.5	dB(A)
04:20 - 05:20	82.6	dB(A)
05:20 - 06:20	81.3	dB(A)
06:20 - 07:20	81.4	dB(A)
07:20 - 08:20	82.6	dB(A)
08:20 - 09:20	82.0	dB(A)
09:20 - 10:20	81.1	dB(A)
L_{eq} 24 hr.	81.9	dB(A)
L_{eq} 8 hr. (TWA) ^{*/1}	10:20 - 18:20 น. = 81 18:20 - 02:20 น. = 81 02:20 - 10:20 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{*/2}	10:20 - 18:20 น. = 81 18:20 - 02:20 น. = 81 02:20 - 10:20 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
- ^{/3} 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 Kittasopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
- (Measurement By Ms. Winda Jampatong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

13/02/2023

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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	: Melting		
PARAMETER*	: L_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 02760
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 09-10/03/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 10/03/2023
	S/N 01209914 : Class 2	REPORTED DATE	: 16/03/2023

TIME \ DATE	09-10/03/2023 (L_{eq})	UNIT
08:50 - 09:50 ^{/3}	82.8	dB(A)
09:50 - 10:50	81.8	dB(A)
10:50 - 11:50	82.8	dB(A)
11:50 - 12:50	81.0	dB(A)
12:50 - 13:50	81.4	dB(A)
13:50 - 14:50	82.7	dB(A)
14:50 - 15:50	82.1	dB(A)
15:50 - 16:50	81.7	dB(A)
16:50 - 17:50	82.7	dB(A)
17:50 - 18:50	81.1	dB(A)
18:50 - 19:50	81.0	dB(A)
19:50 - 20:50	81.6	dB(A)
20:50 - 21:50	64.4	dB(A)
21:50 - 22:50	81.8	dB(A)
22:50 - 23:50	81.3	dB(A)
23:50 - 00:50	83.1	dB(A)
00:50 - 01:50	81.3	dB(A)
01:50 - 02:50	81.8	dB(A)
02:50 - 03:50	83.4	dB(A)
03:50 - 04:50	81.7	dB(A)
04:50 - 05:50	81.1	dB(A)
05:50 - 06:50	81.5	dB(A)
06:50 - 07:50	81.5	dB(A)
07:50 - 08:50	81.0	dB(A)
L_{eq} 24 hr.	81.7	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	08:50 - 16:50 น. = 82 16:50 - 00:50 น. = 81 00:50 - 08:50 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	08:50 - 16:50 น. = 82 16:50 - 00:50 น. = 80 00:50 - 08:50 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} Start Time

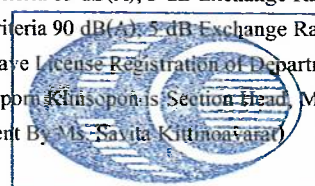
[#] Based on Criteria 85 dB(A); 3 dB Exchange Rate

^{##} 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 Kitisophonis Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 04260
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 05-06/04/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 08/04/2023
	S/N 00310458 : Class 2	REPORTED DATE	: 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{/3}	83.6	dB(A)
10:00 - 11:00	82.2	dB(A)
11:00 - 12:00	82.5	dB(A)
12:00 - 13:00	82.2	dB(A)
13:00 - 14:00	83.0	dB(A)
14:00 - 15:00	84.2	dB(A)
15:00 - 16:00	82.7	dB(A)
16:00 - 17:00	83.2	dB(A)
17:00 - 18:00	83.4	dB(A)
18:00 - 19:00	81.3	dB(A)
19:00 - 20:00	82.5	dB(A)
20:00 - 21:00	83.1	dB(A)
21:00 - 22:00	83.8	dB(A)
22:00 - 23:00	82.4	dB(A)
23:00 - 00:00	83.3	dB(A)
00:00 - 01:00	82.8	dB(A)
01:00 - 02:00	81.7	dB(A)
02:00 - 03:00	81.8	dB(A)
03:00 - 04:00	83.7	dB(A)
04:00 - 05:00	82.0	dB(A)
05:00 - 06:00	81.5	dB(A)
06:00 - 07:00	83.6	dB(A)
07:00 - 08:00	83.1	dB(A)
08:00 - 09:00	81.4	dB(A)
L_{eq} 24 hr.	82.8	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:00 - 17:00 น. = 82 17:00 - 01:00 น. = 82 01:00 - 09:00 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:00 - 17:00 น. = 82 17:00 - 01:00 น. = 82 01:00 - 09:00 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} Start Time

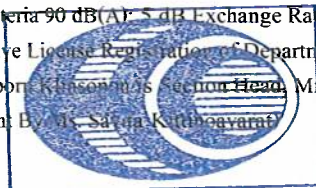
[#] Based on Criteria 85 dB(A); 3 dB Exchange Rate

^{##} 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. Thanatpon Klaisornakul - Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Sanyaa Kuthongvarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

20/04/2023

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Request No. LA66-R0571

Report No. R6605-2810

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr. SAMPLE NO. : 09990
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 16-17/05/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 18/05/2023
S/N 00322757 : Class 2 REPORTED DATE : 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:30 - 10:30 ^{/3}	80.0	dB(A)
10:30 - 11:30	79.7	dB(A)
11:30 - 12:30	80.6	dB(A)
12:30 - 13:30	79.9	dB(A)
13:30 - 14:30	79.8	dB(A)
14:30 - 15:30	81.2	dB(A)
15:30 - 16:30	81.0	dB(A)
16:30 - 17:30	79.5	dB(A)
17:30 - 18:30	80.8	dB(A)
18:30 - 19:30	79.8	dB(A)
19:30 - 20:30	79.5	dB(A)
20:30 - 21:30	80.2	dB(A)
21:30 - 22:30	79.4	dB(A)
22:30 - 23:30	79.8	dB(A)
23:30 - 00:30	79.3	dB(A)
00:30 - 01:30	80.7	dB(A)
01:30 - 02:30	79.9	dB(A)
02:30 - 03:30	79.6	dB(A)
03:30 - 04:30	79.3	dB(A)
04:30 - 05:30	80.4	dB(A)
05:30 - 06:30	79.3	dB(A)
06:30 - 07:30	78.9	dB(A)
07:30 - 08:30	79.6	dB(A)
08:30 - 09:30	80.9	dB(A)
L_{eq} 24 hr.	80.0	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:30 - 17:30 น. = 80 17:30 - 01:30 น. = 79 01:30 - 09:30 น. = 79	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:30 - 17:30 น. = 80 17:30 - 01:30 น. = 79 01:30 - 09:30 น. = 79	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} 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
(Measurement By MTS-Jungjai Sukagard)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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Request No. LA66-R0659

Report No. R6606-2391

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr. SAMPLE NO. : 13596
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 13-14/06/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 15/06/2023
S/N 00322753 : Class 2 REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023	UNIT
	(L_{eq})	
09:15 - 10:15 ^{/3}	83.8	dB(A)
10:15 - 11:15	80.8	dB(A)
11:15 - 12:15	80.9	dB(A)
12:15 - 13:15	80.7	dB(A)
13:15 - 14:15	83.2	dB(A)
14:15 - 15:15	82.3	dB(A)
15:15 - 16:15	80.9	dB(A)
16:15 - 17:15	80.3	dB(A)
17:15 - 18:15	82.0	dB(A)
18:15 - 19:15	82.1	dB(A)
19:15 - 20:15	80.8	dB(A)
20:15 - 21:15	80.8	dB(A)
21:15 - 22:15	83.2	dB(A)
22:15 - 23:15	80.5	dB(A)
23:15 - 00:15	80.8	dB(A)
00:15 - 01:15	82.8	dB(A)
01:15 - 02:15	83.7	dB(A)
02:15 - 03:15	80.6	dB(A)
03:15 - 04:15	81.8	dB(A)
04:15 - 05:15	83.3	dB(A)
05:15 - 06:15	81.4	dB(A)
06:15 - 07:15	80.8	dB(A)
07:15 - 08:15	82.8	dB(A)
08:15 - 09:15	81.2	dB(A)
L_{eq} 24 hr.	81.9	dB(A)
L_{eq} 8 hr. (TWA) ^{*, /1}	09:15 - 17:15 น. = 81 17:15 - 01:15 น. = 81 01:15 - 09:15 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /2}	09:15 - 17:15 น. = 81 17:15 - 01:15 น. = 81 01:15 - 09:15 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} 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
(Measurement Equipment Properly Checked)Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 00705
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/01/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/01/2023
	S/N 00310456 : Type 2	REPORTED DATE	: 31/01/2023

TIME \ DATE	25-26/01/2023 (L_{eq})			UNIT
10:10 - 11:10 ^{/3}	57.6			dB(A)
11:10 - 12:10	58.4			dB(A)
12:10 - 13:10	55.6			dB(A)
13:10 - 14:10	57.6			dB(A)
14:10 - 15:10	58.7			dB(A)
15:10 - 16:10	57.1			dB(A)
16:10 - 17:10	55.1			dB(A)
17:10 - 18:10	53.4			dB(A)
18:10 - 19:10	50.0			dB(A)
19:10 - 20:10	50.0			dB(A)
20:10 - 21:10	49.2			dB(A)
21:10 - 22:10	51.4			dB(A)
22:10 - 23:10	54.3			dB(A)
23:10 - 00:10	54.7			dB(A)
00:10 - 01:10	61.2			dB(A)
01:10 - 02:10	64.2			dB(A)
02:10 - 03:10	66.0			dB(A)
03:10 - 04:10	59.9			dB(A)
04:10 - 05:10	53.3			dB(A)
05:10 - 06:10	51.8			dB(A)
06:10 - 07:10	57.1			dB(A)
07:10 - 08:10	55.7			dB(A)
08:10 - 09:10	58.5			dB(A)
09:10 - 10:10	59.1			dB(A)
L_{eq} 24 hr.	58.4			dB(A)
L_{eq} 8 hr. (TWA) ^{/1}	10:10 - 18:10 น. = 56	18:10 - 02:10 น. = 57	02:10 - 10:10 น. = 59	dB(A)
L_{eq} 8 hr. (TWA) ^{/2}	10:10 - 18:10 น. = 56	18:10 - 02:10 น. = 56	02:10 - 10:10 น. = 58	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}			dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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 Sansorn, Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By: Ms. Winita Jintanont)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

31/01/2023

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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 01455
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/02/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 09/02/2023
	S/N 00209079 : Class 2	REPORTED DATE	: 13/02/2023

TIME \ DATE	08-09/02/2023	UNIT
	(L_{eq})	
10:25 - 11:25 ^{/3}	83.3	dB(A)
11:25 - 12:25	83.9	dB(A)
12:25 - 13:25	81.8	dB(A)
13:25 - 14:25	81.6	dB(A)
14:25 - 15:25	84.9	dB(A)
15:25 - 16:25	81.6	dB(A)
16:25 - 17:25	82.4	dB(A)
17:25 - 18:25	85.5	dB(A)
18:25 - 19:25	82.7	dB(A)
19:25 - 20:25	82.3	dB(A)
20:25 - 21:25	82.3	dB(A)
21:25 - 22:25	85.2	dB(A)
22:25 - 23:25	82.5	dB(A)
23:25 - 00:25	82.3	dB(A)
00:25 - 01:25	84.7	dB(A)
01:25 - 02:25	83.2	dB(A)
02:25 - 03:25	82.5	dB(A)
03:25 - 04:25	82.5	dB(A)
04:25 - 05:25	85.3	dB(A)
05:25 - 06:25	82.3	dB(A)
06:25 - 07:25	82.3	dB(A)
07:25 - 08:25	85.3	dB(A)
08:25 - 09:25	82.4	dB(A)
09:25 - 10:25	81.6	dB(A)
L_{eq} 24 hr.	83.3	dB(A)
L_{eq} 8 hr. (TWA) ^{/1}	10:25 - 18:25 น. = 83 18:25 - 02:25 น. = 83 02:25 - 10:25 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{/2}	10:25 - 18:25 น. = 83 18:25 - 02:25 น. = 83 02:25 - 10:25 น. = 83	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Kinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Winda Jampaton)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

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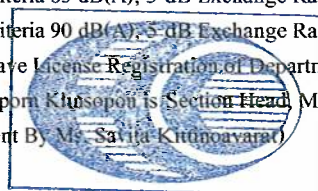
TEST REPORT

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 02759
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 09-10/03/2023
INSTRUMENT	: Integrated Sound Level Meter ; S/N 01209915 : Class 2	RECEIVED DATE	: 10/03/2023
		REPORTED DATE	: 16/03/2023

TIME \ DATE	09-10/03/2023 (L_{eq})	UNIT
08:50 - 09:50 ^{/3}	82.7	dB(A)
09:50 - 10:50	82.1	dB(A)
10:50 - 11:50	84.2	dB(A)
11:50 - 12:50	81.7	dB(A)
12:50 - 13:50	82.0	dB(A)
13:50 - 14:50	84.0	dB(A)
14:50 - 15:50	83.6	dB(A)
15:50 - 16:50	82.5	dB(A)
16:50 - 17:50	84.5	dB(A)
17:50 - 18:50	83.5	dB(A)
18:50 - 19:50	81.7	dB(A)
19:50 - 20:50	81.9	dB(A)
20:50 - 21:50	64.4	dB(A)
21:50 - 22:50	83.4	dB(A)
22:50 - 23:50	82.0	dB(A)
23:50 - 00:50	84.8	dB(A)
00:50 - 01:50	83.8	dB(A)
01:50 - 02:50	82.6	dB(A)
02:50 - 03:50	84.7	dB(A)
03:50 - 04:50	83.4	dB(A)
04:50 - 05:50	82.3	dB(A)
05:50 - 06:50	81.8	dB(A)
06:50 - 07:50	85.2	dB(A)
07:50 - 08:50	81.7	dB(A)
L_{eq} 24 hr.	83.0	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	08:50 - 16:50 น. = 82 16:50 - 00:50 น. = 82 00:50 - 08:50 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	08:50 - 16:50 น. = 82 16:50 - 00:50 น. = 82 00:50 - 08:50 น. = 83	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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 Khunsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Savita Kitanoovaratt)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

16/03/2023

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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 04259
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 05-06/04/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 08/04/2023
	S/N 01209917 : Class 2	REPORTED DATE	: 20/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})			UNIT
09:10 - 10:10 ^{/3}	81.6			dB(A)
10:10 - 11:10	80.7			dB(A)
11:10 - 12:10	80.0			dB(A)
12:10 - 13:10	80.2			dB(A)
13:10 - 14:10	80.3			dB(A)
14:10 - 15:10	80.4			dB(A)
15:10 - 16:10	80.1			dB(A)
16:10 - 17:10	80.6			dB(A)
17:10 - 18:10	79.3			dB(A)
18:10 - 19:10	79.6			dB(A)
19:10 - 20:10	81.4			dB(A)
20:10 - 21:10	80.4			dB(A)
21:10 - 22:10	80.9			dB(A)
22:10 - 23:10	79.8			dB(A)
23:10 - 00:10	81.9			dB(A)
00:10 - 01:10	81.5			dB(A)
01:10 - 02:10	79.8			dB(A)
02:10 - 03:10	80.3			dB(A)
03:10 - 04:10	81.5			dB(A)
04:10 - 05:10	79.7			dB(A)
05:10 - 06:10	79.8			dB(A)
06:10 - 07:10	81.9			dB(A)
07:10 - 08:10	81.8			dB(A)
08:10 - 09:10	79.7			dB(A)
L_{eq} 24 hr.	80.6			dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:10 - 17:10 น. = 80	17:10 - 01:10 น. = 80	01:10 - 09:10 น. = 80	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:10 - 17:10 น. = 80	17:10 - 01:10 น. = 80	01:10 - 09:10 น. = 80	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}			dB(A)

REMARK :

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

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

^{/3} Start Time

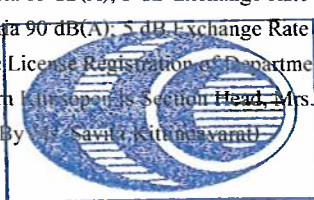
[#] Based on Criteria 85 dB(A); 3 dB Exchange Rate

^{##} 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 Kongsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By : Savitri Kitiwanwattana)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

20/04/2023

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Request No. LA66-R0571

Report No. R6605-2811

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 09991
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 16-17/05/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 18/05/2023
	S/N 00222594 : Class 2	REPORTED DATE	: 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:30 - 10:30 ^{/3}	84.7	dB(A)
10:30 - 11:30	83.4	dB(A)
11:30 - 12:30	83.5	dB(A)
12:30 - 13:30	84.5	dB(A)
13:30 - 14:30	84.1	dB(A)
14:30 - 15:30	80.3	dB(A)
15:30 - 16:30	83.6	dB(A)
16:30 - 17:30	83.2	dB(A)
17:30 - 18:30	82.5	dB(A)
18:30 - 19:30	80.5	dB(A)
19:30 - 20:30	82.2	dB(A)
20:30 - 21:30	84.1	dB(A)
21:30 - 22:30	83.0	dB(A)
22:30 - 23:30	82.9	dB(A)
23:30 - 00:30	81.5	dB(A)
00:30 - 01:30	83.2	dB(A)
01:30 - 02:30	82.4	dB(A)
02:30 - 03:30	83.6	dB(A)
03:30 - 04:30	83.0	dB(A)
04:30 - 05:30	82.2	dB(A)
05:30 - 06:30	82.9	dB(A)
06:30 - 07:30	82.2	dB(A)
07:30 - 08:30	82.0	dB(A)
08:30 - 09:30	83.3	dB(A)
L_{eq} 24 hr.	83.0	dB(A)
L_{eq} 8 hr. (TWA) ^{*,/1}	09:30 - 17:30 น. = 83 17:30 - 01:30 น. = 82 01:30 - 09:30 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{**,/2}	09:30 - 17:30 น. = 83 17:30 - 01:30 น. = 82 01:30 - 09:30 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} 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
 (Measurement By Ms. Jutarat Saksagat)



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

24/05/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด
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Request No. LA66-R0659

Report No. R6606-2392

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 13597
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 13-14/06/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 15/06/2023
	S/N 00222592 : Class 2	REPORTED DATE	: 22/06/2023

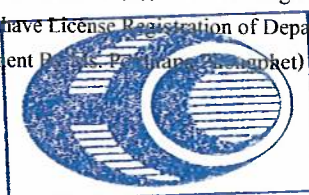
TIME \ DATE	13-14/06/2023	UNIT
	(L_{eq})	
09:25 - 10:25 ^{/3}	78.8	dB(A)
10:25 - 11:25	79.1	dB(A)
11:25 - 12:25	78.4	dB(A)
12:25 - 13:25	78.9	dB(A)
13:25 - 14:25	79.6	dB(A)
14:25 - 15:25	79.8	dB(A)
15:25 - 16:25	80.0	dB(A)
16:25 - 17:25	79.3	dB(A)
17:25 - 18:25	78.4	dB(A)
18:25 - 19:25	78.6	dB(A)
19:25 - 20:25	79.6	dB(A)
20:25 - 21:25	79.6	dB(A)
21:25 - 22:25	79.7	dB(A)
22:25 - 23:25	79.4	dB(A)
23:25 - 00:25	79.3	dB(A)
00:25 - 01:25	79.4	dB(A)
01:25 - 02:25	80.1	dB(A)
02:25 - 03:25	79.2	dB(A)
03:25 - 04:25	79.3	dB(A)
04:25 - 05:25	79.0	dB(A)
05:25 - 06:25	79.3	dB(A)
06:25 - 07:25	80.9	dB(A)
07:25 - 08:25	80.9	dB(A)
08:25 - 09:25	80.1	dB(A)
L_{eq} 24 hr.	79.5	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:25 - 17:25 น. = 79 17:25 - 01:25 น. = 79 01:25 - 09:25 น. = 79	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:25 - 17:25 น. = 79 17:25 - 01:25 น. = 79 01:25 - 09:25 น. = 79	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} 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
(Measurement Result, Parameter, and Method)Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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

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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 00706
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/01/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/01/2023
	S/N 00209079 : Type 2	REPORTED DATE	: 31/01/2023

TIME \ DATE	25-26/01/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{/3}	77.5	dB(A)
10:00 - 11:00	80.2	dB(A)
11:00 - 12:00	78.0	dB(A)
12:00 - 13:00	77.8	dB(A)
13:00 - 14:00	81.0	dB(A)
14:00 - 15:00	80.8	dB(A)
15:00 - 16:00	80.6	dB(A)
16:00 - 17:00	77.7	dB(A)
17:00 - 18:00	76.1	dB(A)
18:00 - 19:00	79.0	dB(A)
19:00 - 20:00	77.3	dB(A)
20:00 - 21:00	81.5	dB(A)
21:00 - 22:00	84.0	dB(A)
22:00 - 23:00	83.8	dB(A)
23:00 - 00:00	77.6	dB(A)
00:00 - 01:00	84.0	dB(A)
01:00 - 02:00	86.1	dB(A)
02:00 - 03:00	84.3	dB(A)
03:00 - 04:00	85.5	dB(A)
04:00 - 05:00	73.5	dB(A)
05:00 - 06:00	82.0	dB(A)
06:00 - 07:00	81.6	dB(A)
07:00 - 08:00	76.1	dB(A)
08:00 - 09:00	78.0	dB(A)
L_{eq} 24 hr.	81.4	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:00 - 17:00 น. = 79 17:00 - 01:00 น. = 81 01:00 - 09:00 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:00 - 17:00 น. = 79 17:00 - 01:00 น. = 81 01:00 - 09:00 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
- ^{/3} 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 Chasupharn Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Ms. Wanda Chasupharn)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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

31/01/2023

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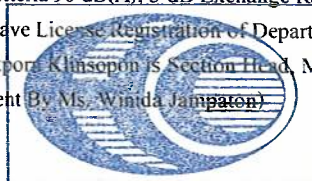
TEST REPORT

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 01457
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/02/2023
INSTRUMENT	: Integrated Sound Level Meter ; S/N 01209914 : Class 2	RECEIVED DATE	: 09/02/2023
		REPORTED DATE	: 13/02/2023

TIME \ DATE	08-09/02/2023 (L_{eq})	UNIT
10:30 - 11:30 ^{/3}	82.6	dB(A)
11:30 - 12:30	83.1	dB(A)
12:30 - 13:30	83.6	dB(A)
13:30 - 14:30	83.7	dB(A)
14:30 - 15:30	83.8	dB(A)
15:30 - 16:30	82.9	dB(A)
16:30 - 17:30	82.8	dB(A)
17:30 - 18:30	83.3	dB(A)
18:30 - 19:30	83.0	dB(A)
19:30 - 20:30	83.4	dB(A)
20:30 - 21:30	83.9	dB(A)
21:30 - 22:30	83.8	dB(A)
22:30 - 23:30	83.1	dB(A)
23:30 - 00:30	83.1	dB(A)
00:30 - 01:30	83.6	dB(A)
01:30 - 02:30	83.3	dB(A)
02:30 - 03:30	81.9	dB(A)
03:30 - 04:30	82.1	dB(A)
04:30 - 05:30	82.9	dB(A)
05:30 - 06:30	83.7	dB(A)
06:30 - 07:30	83.9	dB(A)
07:30 - 08:30	82.2	dB(A)
08:30 - 09:30	83.6	dB(A)
09:30 - 10:30	84.2	dB(A)
L_{eq} 24 hr.	83.3	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	10:30 - 18:30 น. = 83 18:30 - 02:30 น. = 83 02:30 - 10:30 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	10:30 - 18:30 น. = 83 18:30 - 02:30 น. = 83 02:30 - 10:30 น. = 83	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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 Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Ms. Winida Jampaton)



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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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13/02/2023

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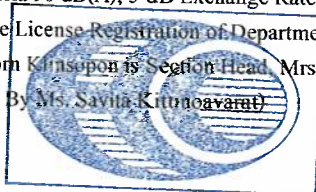
TEST REPORT

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 02758
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/03/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 10/03/2023
	S/N 01209914 : Class 2	REPORTED DATE	: 16/03/2023

TIME \ DATE	08-09/03/2023 (L_{eq})	UNIT
08:25 - 09:25 ^{/3}	80.1	dB(A)
09:25 - 10:25	80.0	dB(A)
10:25 - 11:25	79.4	dB(A)
11:25 - 12:25	79.2	dB(A)
12:25 - 13:25	78.1	dB(A)
13:25 - 14:25	77.6	dB(A)
14:25 - 15:25	76.8	dB(A)
15:25 - 16:25	80.2	dB(A)
16:25 - 17:25	80.7	dB(A)
17:25 - 18:25	83.3	dB(A)
18:25 - 19:25	80.6	dB(A)
19:25 - 20:25	80.3	dB(A)
20:25 - 21:25	64.4	dB(A)
21:25 - 22:25	82.3	dB(A)
22:25 - 23:25	80.9	dB(A)
23:25 - 00:25	80.8	dB(A)
00:25 - 01:25	80.6	dB(A)
01:25 - 02:25	82.7	dB(A)
02:25 - 03:25	81.3	dB(A)
03:25 - 04:25	80.7	dB(A)
04:25 - 05:25	81.2	dB(A)
05:25 - 06:25	82.6	dB(A)
06:25 - 07:25	80.6	dB(A)
07:25 - 08:25	81.5	dB(A)
L_{eq} 24 hr.	80.6	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	08:25 - 16:25 น. = 79 16:25 - 00:25 น. = 80 00:25 - 08:25 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	08:25 - 16:25 น. = 79 16:25 - 00:25 น. = 80 00:25 - 08:25 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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 Kinnasorn is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Ms. Savita Kittanoavarn)



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

16/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 04262
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 07-08/04/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 08/04/2023
	S/N 00310458 : Class 2	REPORTED DATE	: 20/04/2023

TIME \ DATE	07-08/04/2023 (L_{eq})	UNIT
09:10 - 10:10 ^{/3}	90.2	dB(A)
10:10 - 11:10	91.1	dB(A)
11:10 - 12:10	90.4	dB(A)
12:10 - 13:10	89.6	dB(A)
13:10 - 14:10	90.5	dB(A)
14:10 - 15:10	90.7	dB(A)
15:10 - 16:10	90.9	dB(A)
16:10 - 17:10	84.9	dB(A)
17:10 - 18:10	73.6	dB(A)
18:10 - 19:10	90.3	dB(A)
19:10 - 20:10	90.7	dB(A)
20:10 - 21:10	73.2	dB(A)
21:10 - 22:10	91.4	dB(A)
22:10 - 23:10	90.7	dB(A)
23:10 - 00:10	91.8	dB(A)
00:10 - 01:10	88.6	dB(A)
01:10 - 02:10	89.3	dB(A)
02:10 - 03:10	89.2	dB(A)
03:10 - 04:10	91.2	dB(A)
04:10 - 05:10	89.8	dB(A)
05:10 - 06:10	88.2	dB(A)
06:10 - 07:10	86.0	dB(A)
07:10 - 08:10	88.4	dB(A)
08:10 - 09:10	77.3	dB(A)
L_{eq} 24 hr.	89.4	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:10 - 17:10 น. = 90 17:10 - 01:10 น. = 89 01:10 - 09:10 น. = 88	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:10 - 17:10 น. = 89 17:10 - 01:10 น. = 88 01:10 - 09:10 น. = 88	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Ms. Savitri K. (thonyarat))



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

20/04/2023

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Request No. LA66-R0627

Report No. R6606-0926

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr. SAMPLE NO. : 12120
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 01-02/06/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 02/06/2023
S/N 00322748 : Class 2 REPORTED DATE : 08/06/2023

TIME \ DATE	01-02/06/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	76.5	dB(A)
10:00 - 11:00	79.9	dB(A)
11:00 - 12:00	79.0	dB(A)
12:00 - 13:00	83.7	dB(A)
13:00 - 14:00	80.6	dB(A)
14:00 - 15:00	81.1	dB(A)
15:00 - 16:00	83.7	dB(A)
16:00 - 17:00	84.0	dB(A)
17:00 - 18:00	82.1	dB(A)
18:00 - 19:00	83.4	dB(A)
19:00 - 20:00	82.9	dB(A)
20:00 - 21:00	83.2	dB(A)
21:00 - 22:00	83.6	dB(A)
22:00 - 23:00	79.8	dB(A)
23:00 - 00:00	77.4	dB(A)
00:00 - 01:00	80.0	dB(A)
01:00 - 02:00	83.5	dB(A)
02:00 - 03:00	83.3	dB(A)
03:00 - 04:00	81.3	dB(A)
04:00 - 05:00	81.9	dB(A)
05:00 - 06:00	81.9	dB(A)
06:00 - 07:00	79.4	dB(A)
07:00 - 08:00	80.6	dB(A)
08:00 - 09:00	81.2	dB(A)
L_{eq} 24 hr.	81.8	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:00 - 17:00 น. = 81 17:00 - 01:00 น. = 81 01:00 - 09:00 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:00 - 17:00 น. = 81 17:00 - 01:00 น. = 81 01:00 - 09:00 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} Start Time[#] Based on Criteria 85 dB(A); 3 dB Exchange Rate^{##} Based on Criteria 90 dB(A); 5 dB Exchange Rate* Parameter and Exchange Rate of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement of Noise by Sriracha Kuttandavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/06/2023

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Request No. LA66-R0754

Report No. R6607-2136

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_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 19317
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 14-15/07/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 16/07/2023
	S/N 00322747 : Class 2	REPORTED DATE	: 19/07/2023

TIME \ DATE	14-15/07/2023 (L_{eq})	UNIT
09:00 - 10:00 ³	83.2	dB(A)
10:00 - 11:00	82.8	dB(A)
11:00 - 12:00	82.5	dB(A)
12:00 - 13:00	83.1	dB(A)
13:00 - 14:00	83.4	dB(A)
14:00 - 15:00	83.1	dB(A)
15:00 - 16:00	83.5	dB(A)
16:00 - 17:00	83.1	dB(A)
17:00 - 18:00	82.0	dB(A)
18:00 - 19:00	83.1	dB(A)
19:00 - 20:00	82.2	dB(A)
20:00 - 21:00	83.0	dB(A)
21:00 - 22:00	83.6	dB(A)
22:00 - 23:00	83.7	dB(A)
23:00 - 00:00	83.0	dB(A)
00:00 - 01:00	84.3	dB(A)
01:00 - 02:00	84.4	dB(A)
02:00 - 03:00	84.3	dB(A)
03:00 - 04:00	83.8	dB(A)
04:00 - 05:00	84.3	dB(A)
05:00 - 06:00	83.9	dB(A)
06:00 - 07:00	83.6	dB(A)
07:00 - 08:00	82.9	dB(A)
08:00 - 09:00	83.4	dB(A)
L_{eq} 24 hr.	83.4	dB(A)
L_{eq} 8 hr. (TWA) ^{#, 1}	09:00 - 17:00 น. = 83 17:00 - 01:00 น. = 83 01:00 - 09:00 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{##, 2}	09:00 - 17:00 น. = 83 17:00 - 01:00 น. = 83 01:00 - 09:00 น. = 83	dB(A)
Standard L_{eq} 8 hr.	85 ¹ , 90 ²	dB(A)

REMARK :

¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)² Notification of The Ministry of Industry B.E. 2546 (2003)[#] Based on Criteria 85 dB(A); 3 dB Exchange Rate^{##} Based on Criteria 90 dB(A); 5 dB Exchange Rate* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By MS. Savita Kittinooyarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/07/2023

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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.	: 00707
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/01/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/01/2023
	S/N 00443357 : Type 2	REPORTED DATE	: 31/01/2023

TIME \ DATE	25-26/01/2023 (L_{eq})	UNIT
10:10 - 11:10 ^{/3}	83.9	dB(A)
11:10 - 12:10	80.6	dB(A)
12:10 - 13:10	81.5	dB(A)
13:10 - 14:10	83.3	dB(A)
14:10 - 15:10	83.6	dB(A)
15:10 - 16:10	83.7	dB(A)
16:10 - 17:10	83.7	dB(A)
17:10 - 18:10	83.1	dB(A)
18:10 - 19:10	82.1	dB(A)
19:10 - 20:10	75.4	dB(A)
20:10 - 21:10	78.2	dB(A)
21:10 - 22:10	81.1	dB(A)
22:10 - 23:10	82.7	dB(A)
23:10 - 00:10	82.3	dB(A)
00:10 - 01:10	82.7	dB(A)
01:10 - 02:10	82.8	dB(A)
02:10 - 03:10	82.7	dB(A)
03:10 - 04:10	77.5	dB(A)
04:10 - 05:10	75.5	dB(A)
05:10 - 06:10	79.4	dB(A)
06:10 - 07:10	81.0	dB(A)
07:10 - 08:10	75.7	dB(A)
08:10 - 09:10	81.3	dB(A)
09:10 - 10:10	81.7	dB(A)
L_{eq} 24 hr.	81.7	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	10:10 - 18:10 น. = 83 18:10 - 02:10 น. = 81 02:10 - 10:10 น. = 80	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	10:10 - 18:10 น. = 83 18:10 - 02:10 น. = 81 02:10 - 10:10 น. = 79	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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: Ms. Wanpen Lhaochindawat)



Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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

GOPY

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.	: 01453
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 07-08/02/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 09/02/2023
	S/N 01147300 : Class 2	REPORTED DATE	: 13/02/2023

TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{/3}	84.1	dB(A)
10:00 - 11:00	82.0	dB(A)
11:00 - 12:00	83.3	dB(A)
12:00 - 13:00	83.3	dB(A)
13:00 - 14:00	83.3	dB(A)
14:00 - 15:00	88.6	dB(A)
15:00 - 16:00	82.4	dB(A)
16:00 - 17:00	80.7	dB(A)
17:00 - 18:00	81.2	dB(A)
18:00 - 19:00	86.2	dB(A)
19:00 - 20:00	83.5	dB(A)
20:00 - 21:00	84.6	dB(A)
21:00 - 22:00	83.6	dB(A)
22:00 - 23:00	83.7	dB(A)
23:00 - 00:00	84.1	dB(A)
00:00 - 01:00	83.5	dB(A)
01:00 - 02:00	83.6	dB(A)
02:00 - 03:00	77.1	dB(A)
03:00 - 04:00	74.6	dB(A)
04:00 - 05:00	77.7	dB(A)
05:00 - 06:00	82.6	dB(A)
06:00 - 07:00	80.8	dB(A)
07:00 - 08:00	83.3	dB(A)
08:00 - 09:00	84.0	dB(A)
L_{eq} 24 hr.	83.4	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:00 - 17:00 น. = 84 17:00 - 01:00 น. = 83 01:00 - 09:00 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:00 - 17:00 น. = 83 17:00 - 01:00 น. = 83 01:00 - 09:00 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Klinsepon is Section Head Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Winda Jampatong)



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

13/02/2023

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GOPY

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.	: 02756
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/03/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 10/03/2023
	S/N 00209079 : Class 2	REPORTED DATE	: 16/03/2023

TIME \ DATE	08-09/03/2023 (L_{eq})	UNIT
08:40 - 09:40 ^{1/3}	85.8	dB(A)
09:40 - 10:40	85.7	dB(A)
10:40 - 11:40	80.6	dB(A)
11:40 - 12:40	85.7	dB(A)
12:40 - 13:40	83.5	dB(A)
13:40 - 14:40	83.9	dB(A)
14:40 - 15:40	84.2	dB(A)
15:40 - 16:40	80.5	dB(A)
16:40 - 17:40	83.4	dB(A)
17:40 - 18:40	85.0	dB(A)
18:40 - 19:40	81.2	dB(A)
19:40 - 20:40	84.7	dB(A)
20:40 - 21:40	64.4	dB(A)
21:40 - 22:40	85.8	dB(A)
22:40 - 23:40	85.8	dB(A)
23:40 - 00:40	86.0	dB(A)
00:40 - 01:40	84.5	dB(A)
01:40 - 02:40	83.6	dB(A)
02:40 - 03:40	76.2	dB(A)
03:40 - 04:40	75.7	dB(A)
04:40 - 05:40	82.7	dB(A)
05:40 - 06:40	85.0	dB(A)
06:40 - 07:40	77.6	dB(A)
07:40 - 08:40	85.5	dB(A)
L_{eq} 24 hr.	83.8	dB(A)
L_{eq} 8 hr. (TWA) ^{#, 1/1}	08:40 - 16:40 L_{eq} = 84 16:40 - 00:40 L_{eq} = 84 00:40 - 08:40 L_{eq} = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{##, 1/2}	08:40 - 16:40 L_{eq} = 84 16:40 - 00:40 L_{eq} = 83 00:40 - 08:40 L_{eq} = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{1/1} , 90 ^{1/2}	dB(A)

REMARK :

- ^{1/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{1/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{1/3} 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 Klinson is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Ms. Savita Kittibavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

16/03/2023

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
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.	: 04261
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 06-07/04/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 08/04/2023
	S/N 00310458 : Class 2	REPORTED DATE	: 20/04/2023

TIME \ DATE	06-07/04/2023 (L_{eq})	UNIT
09:05 - 10:05 ³	82.9	dB(A)
10:05 - 11:05	84.8	dB(A)
11:05 - 12:05	79.2	dB(A)
12:05 - 13:05	76.8	dB(A)
13:05 - 14:05	83.0	dB(A)
14:05 - 15:05	83.2	dB(A)
15:05 - 16:05	82.4	dB(A)
16:05 - 17:05	81.6	dB(A)
17:05 - 18:05	79.4	dB(A)
18:05 - 19:05	79.5	dB(A)
19:05 - 20:05	75.5	dB(A)
20:05 - 21:05	76.2	dB(A)
21:05 - 22:05	76.5	dB(A)
22:05 - 23:05	76.4	dB(A)
23:05 - 00:05	75.6	dB(A)
00:05 - 01:05	76.4	dB(A)
01:05 - 02:05	76.4	dB(A)
02:05 - 03:05	76.5	dB(A)
03:05 - 04:05	75.0	dB(A)
04:05 - 05:05	74.7	dB(A)
05:05 - 06:05	74.5	dB(A)
06:05 - 07:05	74.6	dB(A)
07:05 - 08:05	75.0	dB(A)
08:05 - 09:05	75.2	dB(A)
L_{eq} 24 hr.	79.3	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:05 - 17:05 น. = 82 17:05 - 01:05 น. = 77 01:05 - 09:05 น. = 75	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:05 - 17:05 น. = 82 17:05 - 01:05 น. = 77 01:05 - 09:05 น. = 75	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Kinsopen is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By : Ms. Savita Kitundavara)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

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

COPY

Request No. LA66-R0571

Report No. R6605-2817

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.	: 09997
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 17-18/05/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 18/05/2023
	S/N 00322757 : Class 2	REPORTED DATE	: 24/05/2023

TIME \ DATE	17-18/05/2023 (L_{eq})	UNIT
09:45 - 10:45 ³	77.6	dB(A)
10:45 - 11:45	75.9	dB(A)
11:45 - 12:45	74.3	dB(A)
12:45 - 13:45	73.8	dB(A)
13:45 - 14:45	81.9	dB(A)
14:45 - 15:45	82.9	dB(A)
15:45 - 16:45	82.2	dB(A)
16:45 - 17:45	82.7	dB(A)
17:45 - 18:45	80.1	dB(A)
18:45 - 19:45	82.0	dB(A)
19:45 - 20:45	77.0	dB(A)
20:45 - 21:45	81.2	dB(A)
21:45 - 22:45	83.6	dB(A)
22:45 - 23:45	84.7	dB(A)
23:45 - 00:45	84.8	dB(A)
00:45 - 01:45	84.9	dB(A)
01:45 - 02:45	84.7	dB(A)
02:45 - 03:45	84.7	dB(A)
03:45 - 04:45	77.8	dB(A)
04:45 - 05:45	74.0	dB(A)
05:45 - 06:45	81.3	dB(A)
06:45 - 07:45	79.2	dB(A)
07:45 - 08:45	77.0	dB(A)
08:45 - 09:45	83.3	dB(A)
L_{eq} 24 hr.	81.7	dB(A)
L_{eq} 8 hr. (TWA) ^{#,1}	09:45 - 17:45 น. = 80 17:45 - 01:45 น. = 82 01:45 - 09:45 น. = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##,2}	09:45 - 17:45 น. = 79 17:45 - 01:45 น. = 82 01:45 - 09:45 น. = 81	dB(A)
Standard L_{eq} 8 hr.	85 ¹ , 90 ²	dB(A)

REMARK :

¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)² Notification of The Ministry of Industry B.E. 2546 (2003)³ 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
(Measurement By MS. Jitmit Saksage)

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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COPY

Request No. LA66-R0659

Report No. R6606-2394

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. : 13599
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 13-14/06/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 15/06/2023
S/N 00322748 : Class 2 REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023	UNIT
	(L_{eq})	
09:55 - 10:55 ^{/3}	78.1	dB(A)
10:55 - 11:55	80.9	dB(A)
11:55 - 12:55	83.7	dB(A)
12:55 - 13:55	84.8	dB(A)
13:55 - 14:55	84.1	dB(A)
14:55 - 15:55	84.9	dB(A)
15:55 - 16:55	84.8	dB(A)
16:55 - 17:55	83.5	dB(A)
17:55 - 18:55	85.2	dB(A)
18:55 - 19:55	84.7	dB(A)
19:55 - 20:55	84.2	dB(A)
20:55 - 21:55	84.9	dB(A)
21:55 - 22:55	86.7	dB(A)
22:55 - 23:55	86.1	dB(A)
23:55 - 00:55	86.6	dB(A)
00:55 - 01:55	85.1	dB(A)
01:55 - 02:55	85.3	dB(A)
02:55 - 03:55	84.1	dB(A)
03:55 - 04:55	73.8	dB(A)
04:55 - 05:55	79.9	dB(A)
05:55 - 06:55	84.9	dB(A)
06:55 - 07:55	77.4	dB(A)
07:55 - 08:55	84.6	dB(A)
08:55 - 09:55	84.2	dB(A)
L_{eq} 24 hr.	84.2	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:55 - 17:55 น. = 83 17:55 - 01:55 น. = 85 01:55 - 09:55 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:55 - 17:55 น. = 83 17:55 - 01:55 น. = 85 01:55 - 09:55 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} Start Time

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

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

* Parameter have Limit & Regulation of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement of Noise From Noise Pollution)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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	: PK07		
PARAMETER*	: L_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 00708
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 25-26/01/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 26/01/2023
	S/N 01209915 : Type 2	REPORTED DATE	: 31/01/2023

TIME \ DATE	25-26/01/2023 (L_{eq})	UNIT
10:10 - 11:10 ^{/3}	90.8	dB(A)
11:10 - 12:10	88.4	dB(A)
12:10 - 13:10	90.7	dB(A)
13:10 - 14:10	89.6	dB(A)
14:10 - 15:10	88.4	dB(A)
15:10 - 16:10	91.4	dB(A)
16:10 - 17:10	88.9	dB(A)
17:10 - 18:10	89.1	dB(A)
18:10 - 19:10	91.5	dB(A)
19:10 - 20:10	88.3	dB(A)
20:10 - 21:10	89.8	dB(A)
21:10 - 22:10	90.7	dB(A)
22:10 - 23:10	89.6	dB(A)
23:10 - 00:10	90.2	dB(A)
00:10 - 01:10	91.0	dB(A)
01:10 - 02:10	89.4	dB(A)
02:10 - 03:10	89.9	dB(A)
03:10 - 04:10	91.6	dB(A)
04:10 - 05:10	89.8	dB(A)
05:10 - 06:10	89.1	dB(A)
06:10 - 07:10	89.4	dB(A)
07:10 - 08:10	88.9	dB(A)
08:10 - 09:10	89.9	dB(A)
09:10 - 10:10	91.2	dB(A)
L_{eq} 24 hr.	90.0	dB(A)
L_{eq} 8 hr. (TWA) ^{=, /1}	10:10 - 18:10 น. = 89 18:10 - 02:10 น. = 90 02:10 - 10:10 น. = 90	dB(A)
L_{eq} 8 hr. (TWA) ^{≠, /2}	10:10 - 18:10 น. = 89 18:10 - 02:10 น. = 90 02:10 - 10:10 น. = 90	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

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

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

^{/3} 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 Kinsorn's Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Wanpen Lhaochindawat)



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

31/01/2023

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
SAMPLE SOURCE	: Siam Poongsan Metal Co., Ltd.		A. Sriracha, Chonburi 20230
SAMPLE POINT	: PK07		
PARAMETER*	: L_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 01454
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 07-08/02/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 09/02/2023
	S/N 01209916 : Class 2	REPORTED DATE	: 13/02/2023

TIME \ DATE	07-08/02/2023 (L_{eq})	UNIT
09:00 - 10:00 ^{/3}	80.9	dB(A)
10:00 - 11:00	81.5	dB(A)
11:00 - 12:00	81.7	dB(A)
12:00 - 13:00	81.6	dB(A)
13:00 - 14:00	82.0	dB(A)
14:00 - 15:00	83.8	dB(A)
15:00 - 16:00	84.9	dB(A)
16:00 - 17:00	85.2	dB(A)
17:00 - 18:00	83.9	dB(A)
18:00 - 19:00	83.0	dB(A)
19:00 - 20:00	85.1	dB(A)
20:00 - 21:00	85.7	dB(A)
21:00 - 22:00	86.0	dB(A)
22:00 - 23:00	85.8	dB(A)
23:00 - 00:00	85.1	dB(A)
00:00 - 01:00	83.8	dB(A)
01:00 - 02:00	80.6	dB(A)
02:00 - 03:00	78.2	dB(A)
03:00 - 04:00	78.2	dB(A)
04:00 - 05:00	81.4	dB(A)
05:00 - 06:00	83.9	dB(A)
06:00 - 07:00	85.9	dB(A)
07:00 - 08:00	85.8	dB(A)
08:00 - 09:00	84.8	dB(A)
L_{eq} 24 hr.	83.8	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:00 - 17:00 น. = 82 17:00 - 01:00 น. = 84 01:00 - 09:00 น. = 83	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:00 - 17:00 น. = 82 17:00 - 01:00 น. = 84 01:00 - 09:00 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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. Thanatpon Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Ms. Winda Jampaton)



Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

13/02/2023

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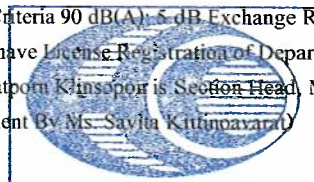
TEST REPORT

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		
PARAMETER*	: L_{eq} 1 hr., L_{eq} 8 hr. & L_{eq} 24 hr.	SAMPLE NO.	: 02757
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 08-09/03/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 10/03/2023
	S/N 01209912 : Class 2	REPORTED DATE	: 16/03/2023

TIME \ DATE	08-09/03/2023 (L_{eq})	UNIT
08:40 - 09:40 ^{/3}	84.1	dB(A)
09:40 - 10:40	81.9	dB(A)
10:40 - 11:40	82.0	dB(A)
11:40 - 12:40	83.2	dB(A)
12:40 - 13:40	83.2	dB(A)
13:40 - 14:40	83.0	dB(A)
14:40 - 15:40	79.9	dB(A)
15:40 - 16:40	82.7	dB(A)
16:40 - 17:40	79.5	dB(A)
17:40 - 18:40	82.2	dB(A)
18:40 - 19:40	81.1	dB(A)
19:40 - 20:40	83.4	dB(A)
20:40 - 21:40	64.4	dB(A)
21:40 - 22:40	83.4	dB(A)
22:40 - 23:40	83.3	dB(A)
23:40 - 00:40	82.2	dB(A)
00:40 - 01:40	82.3	dB(A)
01:40 - 02:40	83.4	dB(A)
02:40 - 03:40	82.1	dB(A)
03:40 - 04:40	76.0	dB(A)
04:40 - 05:40	78.9	dB(A)
05:40 - 06:40	79.9	dB(A)
06:40 - 07:40	83.3	dB(A)
07:40 - 08:40	84.2	dB(A)
L_{eq} 24 hr.	82.1	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	08:40 - 16:40 L_{eq} = 82 16:40 - 00:40 L_{eq} = 81 00:40 - 08:40 L_{eq} = 81	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	08:40 - 16:40 L_{eq} = 82 16:40 - 00:40 L_{eq} = 81 00:40 - 08:40 L_{eq} = 81	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)
^{/3} 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 Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

16/03/2023

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Request No. LA66-R0571

Report No. R6605-2818

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.	: 09998
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 17-18/05/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 18/05/2023
	S/N 01209917 : Class 2	REPORTED DATE	: 24/05/2023

TIME \ DATE	17-18/05/2023 (L_{eq})	UNIT
09:20 - 10:20 ³	85.0	dB(A)
10:20 - 11:20	84.7	dB(A)
11:20 - 12:20	84.5	dB(A)
12:20 - 13:20	84.4	dB(A)
13:20 - 14:20	84.6	dB(A)
14:20 - 15:20	84.3	dB(A)
15:20 - 16:20	83.4	dB(A)
16:20 - 17:20	83.6	dB(A)
17:20 - 18:20	84.1	dB(A)
18:20 - 19:20	83.8	dB(A)
19:20 - 20:20	83.9	dB(A)
20:20 - 21:20	84.4	dB(A)
21:20 - 22:20	85.2	dB(A)
22:20 - 23:20	84.7	dB(A)
23:20 - 00:20	83.5	dB(A)
00:20 - 01:20	82.2	dB(A)
01:20 - 02:20	82.9	dB(A)
02:20 - 03:20	81.8	dB(A)
03:20 - 04:20	81.1	dB(A)
04:20 - 05:20	80.1	dB(A)
05:20 - 06:20	80.5	dB(A)
06:20 - 07:20	84.6	dB(A)
07:20 - 08:20	84.1	dB(A)
08:20 - 09:20	83.9	dB(A)
L_{eq} 24 hr.	83.7	dB(A)
L_{eq} 8 hr. (TWA) ^{#, 1}	09:20 - 17:20 น. = 84 17:20 - 01:20 น. = 84 01:20 - 09:20 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{##, 2}	09:20 - 17:20 น. = 84 17:20 - 01:20 น. = 84 01:20 - 09:20 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ¹ , 90 ²	dB(A)

REMARK :

¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)² Notification of The Ministry of Industry B.E. 2546 (2003)³ 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
(Measurement By: M. Jirana, Saksagett)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA66-R0571

Report No. R6605-2812

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.	: 09992
DETERMINATION METHOD	: ISO 11202:2010	MEASURING DATE	: 16-17/05/2023
INSTRUMENT	: Integrated Sound Level Meter ;	RECEIVED DATE	: 18/05/2023
	S/N 01209917 : Class 2	REPORTED DATE	: 24/05/2023

TIME \ DATE	16-17/05/2023 (L_{eq})	UNIT
09:20 - 10:20 ³	85.3	dB(A)
10:20 - 11:20	86.1	dB(A)
11:20 - 12:20	86.0	dB(A)
12:20 - 13:20	86.0	dB(A)
13:20 - 14:20	85.8	dB(A)
14:20 - 15:20	86.0	dB(A)
15:20 - 16:20	86.3	dB(A)
16:20 - 17:20	85.9	dB(A)
17:20 - 18:20	85.8	dB(A)
18:20 - 19:20	85.6	dB(A)
19:20 - 20:20	85.4	dB(A)
20:20 - 21:20	86.2	dB(A)
21:20 - 22:20	85.5	dB(A)
22:20 - 23:20	81.2	dB(A)
23:20 - 00:20	82.6	dB(A)
00:20 - 01:20	83.0	dB(A)
01:20 - 02:20	85.5	dB(A)
02:20 - 03:20	84.2	dB(A)
03:20 - 04:20	81.5	dB(A)
04:20 - 05:20	80.3	dB(A)
05:20 - 06:20	8.2	dB(A)
06:20 - 07:20	86.3	dB(A)
07:20 - 08:20	80.0	dB(A)
08:20 - 09:20	80.8	dB(A)
L_{eq} 24 hr.	84.7	dB(A)
L_{eq} 8 hr. (TWA) ^{*, 1/}	09:20 - 17:20 น. = 85 17:20 - 01:20 น. = 84 01:20 - 09:20 น. = 82	dB(A)
L_{eq} 8 hr. (TWA) ^{**, 2/}	09:20 - 17:20 น. = 85 17:20 - 01:20 น. = 84 01:20 - 09:20 น. = 82	dB(A)
Standard L_{eq} 8 hr.	85 ^{1/} , 90 ^{2/}	dB(A)

REMARK :

^{1/} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{2/} Notification of The Ministry of Industry B.E. 2546 (2003)^{3/} 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
(Measurement by 48-Hourly Subsample)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

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Request No. LA66-R0659

Report No. R6606-2393

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. : 13598
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 13-14/06/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 15/06/2023
S/N 01209916 : Class 2 REPORTED DATE : 22/06/2023

TIME \ DATE	13-14/06/2023 (L_{eq})	UNIT
09:50 - 10:50 ^{/3}	86.0	dB(A)
10:50 - 11:50	83.7	dB(A)
11:50 - 12:50	87.6	dB(A)
12:50 - 13:50	83.7	dB(A)
13:50 - 14:50	83.6	dB(A)
14:50 - 15:50	83.9	dB(A)
15:50 - 16:50	83.6	dB(A)
16:50 - 17:50	83.3	dB(A)
17:50 - 18:50	83.8	dB(A)
18:50 - 19:50	84.8	dB(A)
19:50 - 20:50	87.3	dB(A)
20:50 - 21:50	83.9	dB(A)
21:50 - 22:50	84.1	dB(A)
22:50 - 23:50	88.2	dB(A)
23:50 - 00:50	86.8	dB(A)
00:50 - 01:50	84.9	dB(A)
01:50 - 02:50	88.0	dB(A)
02:50 - 03:50	84.1	dB(A)
03:50 - 04:50	86.7	dB(A)
04:50 - 05:50	83.2	dB(A)
05:50 - 06:50	83.7	dB(A)
06:50 - 07:50	83.5	dB(A)
07:50 - 08:50	84.7	dB(A)
08:50 - 09:50	84.3	dB(A)
L_{eq} 24 hr.	85.2	dB(A)
L_{eq} 8 hr. (TWA) ^{#, /1}	09:50 - 17:50 น. = 84 17:50 - 01:50 น. = 85 01:50 - 09:50 น. = 85	dB(A)
L_{eq} 8 hr. (TWA) ^{##, /2}	09:50 - 17:50 น. = 84 17:50 - 01:50 น. = 85 01:50 - 09:50 น. = 84	dB(A)
Standard L_{eq} 8 hr.	85 ^{/1} , 90 ^{/2}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)^{/3} Start Time

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

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

* Parameter have Liaise Relation of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement of Noise in Air - Phongsakhet)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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Request No. ATR6601024

Report No. 6601-0166

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 : 25/01/2023 SAMPLE NO. : A66010166
RECEIVED DATE : 27/01/2023 SAMPLING TIME : 10:10-11:10
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
Serial No. 218445 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0188

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 : 07/02/2023 SAMPLE NO. : A66020188
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:00-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20200403064 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.075	1.00	mg/m ³
		0.019	0.25	ppm

REMARK:

¹ 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 Thanaporn Klinsohon)

21/02/2023



Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0489

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 : 09/03/2023 SAMPLE NO. : A66030489
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:00-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218391 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.148	1.00	mg/m ³
		0.037	0.25	ppm

REMARK:

¹ 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 Klinsohon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6604021

Report No. 6604-0493

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 : 06/04/2023 SAMPLE NO. : A66040493
 RECEIVED DATE : 11/04/2023 SAMPLING TIME : 09:04-10:04
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 11/04/2023-20/04/2023
 Serial No. 218383 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

^{/1} 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 Klinsohon)

25/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6605062

Report No. 6605-1042

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 : 16/05/2023 SAMPLE NO. : A66051042
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:10-10:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218444 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.177	1.00	mg/m ³
		0.044	0.25	ppm

REMARK:

¹ 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 Klinsoon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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

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Request No. ATR6606039

Report No. 6606-0856

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 : 13/06/2023 SAMPLE NO. : A66060856
RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:43-10:43
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
Serial No. 20200403076 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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 Thanaporn Klinsopon)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0169

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 : 25/01/2023 SAMPLE NO. : A66010169
 RECEIVED DATE : 27/01/2023 SAMPLING TIME : 09:55-10:55
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
 Serial No. 218444 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.073	1.00	mg/m ³
		0.018	0.25	ppm

REMARK:

¹ 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)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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ISO/IEC 17025

Request No. ATR6602011

Report No. 6602-0192

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 : 07/02/2023 SAMPLE NO. : A66020192
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:00-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20160502012 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.153	1.00	mg/m ³
		0.038	0.25	ppm

REMARK:

^{/1} 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)

21/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0481

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 : 08/03/2023 SAMPLE NO. : A66030481
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:10-10:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218391 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.140	1.00	mg/m ³
		0.035	0.25	ppm

REMARK:

¹ 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 Klinsoyon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6605062

Report No. 6605-1051

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 : 16/05/2023 SAMPLE NO. : A66051051
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 13:00-14:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218411 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6605062

Report No. 6605-1046

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 : 16/05/2023 SAMPLE NO. : A66051046
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:06-10:06
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218411 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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 Klinsoon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6606039

Report No. 6606-0859

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 : 14/06/2023 SAMPLE NO. : A66060859
RECEIVED DATE : 16/06/2023 SAMPLING TIME : 10:05-11:05
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
Serial No. 20200403073 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0170

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 : 25/01/2023 SAMPLE NO. : A66010170
 RECEIVED DATE : 27/01/2023 SAMPLING TIME : 09:55-10:55
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
 Serial No. 218444 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.288	5	mg/m ³
		0.112	2	ppm

REMARK:

^{/1} 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)

03/02/2023



Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0193

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 : 07/02/2023 SAMPLE NO. : A66020193
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:00-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20160502012 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.564	5	mg/m ³
		0.219	2	ppm

REMARK:

¹ 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 Klinsoyon)

21/02/2023



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Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0482

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 : 08/03/2023 SAMPLE NO. : A66030482
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:10-10:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218391 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.060	5	mg/m ³
		0.023	2	ppm

REMARK:

^{/1} 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 Klinsoon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6605062

Report No. 6605-1052

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 : 16/05/2023 SAMPLE NO. : A66051052
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 13:00-14:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218383 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.075	5	mg/m ³
		0.029	2	ppm

REMARK:^{/1} 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)

29/05/2023



Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6605062

Report No. 6605-1047

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 : 16/05/2023 SAMPLE NO. : A66051047
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:06-10:06
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218383 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	0.095	5	mg/m ³
		0.037	2	ppm

REMARK:

¹ 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 Klinsoon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Mr. Kawee Suthasub)

29/05/2023



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Request No. ATR6606039

Report No. 6606-0860

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 : 14/06/2023 SAMPLE NO. : A66060860
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 10:05-11:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
 Serial No. 20200403073 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Nitric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.026	5	mg/m ³
		< 0.010	2	ppm

REMARK:¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0168

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 : 25/01/2023 SAMPLE NO. : A66010168
RECEIVED DATE : 27/01/2023 SAMPLING TIME : 10:05-11:05
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
Serial No. 218411 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.083	1.00	mg/m ³
		0.021	0.25	ppm

REMARK:

¹ 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 Klinsonpon)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0190

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 : 07/02/2023 SAMPLE NO. : A66020190
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:10-10:10
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20200403073 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.044	1.00	mg/m ³
		0.011	0.25	ppm

REMARK:

¹ 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 Thanaporn Klinsopon)

21/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0491

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 : 09/03/2023 SAMPLE NO. : A66030491
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:05-10:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218402 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.273	1.00	mg/m ³
		0.068	0.25	ppm

REMARK:

^{/1} 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)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6605062

Report No. 6605-1050

TEST REPORT

CUSTOMER : Siam Poongsan metal CO.,LTD.
 ADDRESS : 38/14 Moo 5 T.Tung Sukla A.Sriracha,Chonburi 20230
 SAMPLE SOURCE : Siam Poongsan Metal Co.,LTD.
 SAMPLE NAME : PK05
 SAMPLING DATE : 16/05/2023 SAMPLE NO. : A66051050
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 13:00-14:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218408 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

^{/1} 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)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Request No. ATR6605062

Report No. 6605-1044

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 : 16/05/2023 SAMPLE NO. : A66051044
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:20-10:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218408 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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 Thanaporn Klinsohon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6606039

Report No. 6606-0858

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 : 13/06/2023 SAMPLE NO. : A66060858
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:50-10:50
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
 Serial No. 20200403080 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0167

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 : 25/01/2023 SAMPLE NO. : A66010167
RECEIVED DATE : 27/01/2023 SAMPLING TIME : 10:15-11:15
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
Serial No. 218405 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

^{/1} 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 Klinsoon)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0189

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 : 07/02/2023 SAMPLE NO. : A66020189
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:20-10:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20180903076 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.140	1.00	mg/m ³
		0.035	0.25	ppm

REMARK:

^{/1} 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)

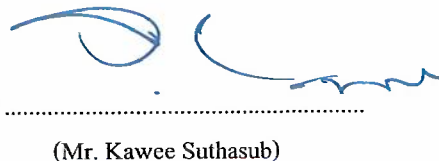
Examined By


 (Miss Thanaporn Klinsoon)

21/02/2023



Approved By


 (Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0490

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 : 09/03/2023 SAMPLE NO. : A66030490
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:03-10:03
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218388 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.153	1.00	mg/m ³
		0.038	0.25	ppm

REMARK:

^{/1} 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 Klinsoon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6604021

Report No. 6604-0492

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 : AP02
 SAMPLING DATE : 06/04/2023 SAMPLE NO. : A66040492
 RECEIVED DATE : 11/04/2023 SAMPLING TIME : 09:02-10:02
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 11/04/2023-20/04/2023
 Serial No. 218388 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

^{/1} 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 Klinsohon)

25/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/04/2023

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Request No. ATR6605062

Report No. 6605-1043

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 : 16/05/2023 SAMPLE NO. : A66051043
RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:11-10:11
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
Serial No. 218412 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.079	1.00	mg/m ³
		0.020	0.25	ppm

REMARK:

¹ 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)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Mr. Kawee Suthasub)

29/05/2023

COPY

Request No. ATR6606039

Report No. 6606-0857

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 : 13/06/2023 SAMPLE NO. : A66060857
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:45-10:45
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
 Serial No. 20211102099 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0165

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 : 24/01/2023 SAMPLE NO. : A66010165
 RECEIVED DATE : 27/01/2023 SAMPLING TIME : 09:37-10:37
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 27/01/2023-28/01/2023
 Serial No. 20180903093 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:¹ 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 Thanaporn Klinsopon)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0191

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 : 07/02/2023 SAMPLE NO. : A66020191
 RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:05-10:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 13/02/2023-14/02/2023
 Serial No. 20200403079 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

^{/1} 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 Thanaporn Klinsopon)

21/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0480

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 : 08/03/2023 SAMPLE NO. : A66030480
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 09:15-10:15
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 14/03/2023-15/03/2023
 Serial No. 218405 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.123	1.00	mg/m ³
		0.031	0.25	ppm

REMARK:

^{/1} 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 Klinsoon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6604021

Report No. 6604-0491

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 : 06/04/2023 SAMPLE NO. : A66040491
 RECEIVED DATE : 11/04/2023 SAMPLING TIME : 08:40-09:40
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 11/04/2023-20/04/2023
 Serial No. 218391 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.244	1.00	mg/m ³
		0.061	0.25	ppm

REMARK:

^{/1} 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 Klinsoyon)

25/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/04/2023

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Request No. ATR6605062

Report No. 6605-1045

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 : 16/05/2023 SAMPLE NO. : A66051045
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:05-10:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 22/05/2023-23/05/2023
 Serial No. 218445 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	0.116	1.00	mg/m ³
		0.029	0.25	ppm

REMARK:

¹ 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)

29/05/2023



Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6606039

Report No. 6606-0855

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 : 13/06/2023 SAMPLE NO. : A66060855
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:18-10:18
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 16/06/2023-17/06/2023
 Serial No. 20200403079 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m ³
		< 0.010	0.25	ppm

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0172

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 : 25/01/2023 SAMPLE NO. : A66010172
 RECEIVED DATE : 27/01/2023 SAMPLING TIME : 09:25-10:25
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 27/01/2023-02/02/2023
 Serial No. 20200403062 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.07	5	mg/m ³

REMARK:

^{/1} 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsopon)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6602011

Report No. 6602-0195

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 : 08/02/2023 SAMPLE NO. : A66020195
RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:10-11:10
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 13/02/2023-20/02/2023
Serial No. 20180903076 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.09	5	mg/m ³

REMARK:

¹ 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 Klinsopon)

21/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/02/2023

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

COPY

Request No. ATR6603026

Report No. 6603-0493

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 : 09/03/2023 SAMPLE NO. : A66030493
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 08:43-09:43
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 14/03/2023-16/03/2023
 Serial No. 20180903085 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.13	5	mg/m ³

REMARK:¹ 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

20/03/2023



Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6604021

Report No. 6604-0490

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 : 05/04/2023 SAMPLE NO. : A66040490
 RECEIVED DATE : 11/04/2023 SAMPLING TIME : 09:25-10:25
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 11/04/2023-17/04/2023
 Serial No. 20211102125 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.09	5	mg/m ³

REMARK:

^{/1} 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 Klinsopon)

25/04/2023



Approved By

(Mr. Kawee Suthasub)

25/04/2023

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Request No. ATR6605062

Report No. 6605-1049

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 : 16/05/2023 SAMPLE NO. : A66051049
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:50-10:50
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 22/05/2023-26/05/2023
 Serial No. 20200403061 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.04	5	mg/m ³

REMARK:

¹ 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsopon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6606039

Report No. 6606-0854

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 : 13/06/2023 SAMPLE NO. : A66060854
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:25-10:25
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 16/06/2023-22/06/2023
 Serial No. 20200403063 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.17	5	mg/m ³

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. ATR6601024

Report No. 6601-0171

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 : 25/01/2023 SAMPLE NO. : A66010171
 RECEIVED DATE : 27/01/2023 SAMPLING TIME : 09:20-10:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 27/01/2023-02/02/2023
 Serial No. 20180903092 REPORTED DATE : 03/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.16	5	mg/m ³

REMARK:

¹ 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

03/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

03/02/2023

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Request No. ATR6602011

Report No. 6602-0194

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 : 08/02/2023 SAMPLE NO. : A66020194
RECEIVED DATE : 13/02/2023 SAMPLING TIME : 09:00-11:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 13/02/2023-20/02/2023
Serial No. 20200403064 REPORTED DATE : 21/02/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.12	5	mg/m ³

REMARK:

^{/1} 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 Klinsopon)

21/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/02/2023

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Request No. ATR6603026

Report No. 6603-0492

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 : 09/03/2023 SAMPLE NO. : A66030492
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 08:40-09:40
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 14/03/2023-16/03/2023
 Serial No. 20180903093 REPORTED DATE : 20/03/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.11	5	mg/m ³

REMARK:¹ 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

20/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

20/03/2023

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Request No. ATR6604021

Report No. 6604-0489

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 : 05/04/2023 SAMPLE NO. : A66040489
 RECEIVED DATE : 11/04/2023 SAMPLING TIME : 09:20-10:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 11/04/2023-17/04/2023
 Serial No. 20200403077 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.16	5	mg/m ³

REMARK:

^{/1} 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 Thanaporn Klinsopon)

25/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/04/2023

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Request No. ATR6605062

Report No. 6605-1048

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 : 16/05/2023 SAMPLE NO. : A66051048
 RECEIVED DATE : 22/05/2023 SAMPLING TIME : 09:45-10:45
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 22/05/2023-26/05/2023
 Serial No. 20180903094 REPORTED DATE : 29/05/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.03	5	mg/m ³

REMARK:¹ 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. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsopon)

29/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/05/2023

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Request No. ATR6606039

Report No. 6606-0853

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 : 13/06/2023 SAMPLE NO. : A66060853
 RECEIVED DATE : 16/06/2023 SAMPLING TIME : 09:15-10:15
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 16/06/2023-22/06/2023
 Serial No. 20180903080 REPORTED DATE : 24/06/2023

PARAMETER*	TEST METHOD	RESULT	STD ¹	UNIT
Zinc Oxide (ZnO)	Filtration, ICP-OES /NIOSH 7300	0.16	5	mg/m ³

REMARK:

¹ 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)

24/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/06/2023

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Request No. LA66-R0124

Report No. R6601-0677 - R6601-0679

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. : 00693-00695
MEASURING DATE : 25/01/2023 RECEIVED DATE : 26/01/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/01/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TPL060040, TPL060039

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:30-11:30	25.4	26.5	26.6	25.1	25.9
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	23.3	23.5	23.8	24.0	23.7
Heat Stress (Melting) (ห้องพักพนักงาน)	09:30-11:30	22.3	22.6	22.7	22.8	22.6
WBGT AVERAGE	09:30-11:30	-	-	-	-	23.9
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 209.61 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Winida Jampaton)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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Request No. LA66-R0214

Report No. R6602-0229 - R6602-0231

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. : 01443-01445
MEASURING DATE : 08/02/2023 RECEIVED DATE : 09/02/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 13/02/2023

Wet Bulb Globe Temperature (WBGT) : Serial No. TPL060039, TEU080015, TEU080014

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	29.3	29.0	29.8	29.7	29.4
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	28.5	28.8	28.9	28.7	28.7
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	26.3	25.9	26.9	26.8	26.5
WBGT AVERAGE	09:00-11:00	-	-	-	-	27.8
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 209.61 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

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Request No. LA66-R0341

Report No. R6603-0805 - R6603-0807

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. : 02747-02749
MEASURING DATE : 10/03/2023 RECEIVED DATE : 10/03/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TPI050070, TEU080014, TEU080013

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:30-11:30	29.4	29.9	30.1	30.4	29.9
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	28.7	28.8	28.8	29.2	28.9
Heat Stress (Melting) (ห้องพักพนักงาน)	09:30-11:30	23.9	25.0	25.4	25.5	24.9
WBGT AVERAGE	09:30-11:30	-	-	-	-	27.2
STANDARD		-	-	-	-	32.0 ^{1/2}

REMARK :

Work Load = 209.61 Kcal/hr.

^{1/1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)^{1/2} 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. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

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Request No. LA66-R0431

Report No. R6604-0497 - R6604-0499

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. : 04246-04248
MEASURING DATE : 05/04/2023 RECEIVED DATE : 08/04/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 20/04/2023

Wet Bulb Globe Temperature (WBGT) : Serial No. TPL060040, TPI050070, TPL090016

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:30-11:30	31.2	31.6	31.3	31.6	31.4
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	29.8	29.7	30.5	30.6	30.2
Heat Stress (Melting) (ห้องพักพนักงาน)	09:30-11:30	24.8	25.3	24.5	24.1	24.7
WBGT AVERAGE	09:30-11:30	-	-	-	-	27.8
STANDARD		-	-	-	-	32.0 ^{1/2}

REMARK :

Work Load = 209.61 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

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Request No. LA66-R0571

Report No. R6605-2804 - R6605-2806

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. : 09984-09986
MEASURING DATE : 16/05/2023 RECEIVED DATE : 18/05/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 24/05/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011, TEU080015, 22004318

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:30-11:30	30.3	30.4	30.6	31.2	30.6
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	29.4	29.8	29.9	30.3	29.9
Heat Stress (Melting) (ห้องพักพนักงาน)	09:30-11:30	28.7	28.9	28.4	28.2	28.5
WBGT AVERAGE	09:30-11:30	-	-	-	-	29.4
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 209.61 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

COPY

Request No. LA66-R0659

Report No. R6606-2380 - R6606-2382

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. : 13586-13588
MEASURING DATE : 13/06/2023 RECEIVED DATE : 15/06/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 22/06/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015, TPQ030024, TEU080011

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Melting) (หน้าเตาหลอม)	09:00-11:00	33.7	34.7	34.2	32.9	33.9
Heat Stress (Melting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	29.7	29.5	29.6	29.8	29.6
Heat Stress (Melting) (ห้องพักพนักงาน)	09:00-11:00	23.0	22.2	23.4	23.2	22.9
WBGT AVERAGE	09:00-11:00	-	-	-	-	27.7
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 209.61 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

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Request No. LA66-R0124

Report No. R6601-0674 - R6601-0676

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. : 00690-00692
MEASURING DATE : 25/01/2023 RECEIVED DATE : 26/01/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/01/2023

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015, TPQ030024, TEU080014

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:30-11:30	24.3	24.5	24.5	24.6	24.5
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	22.0	22.1	22.5	22.7	22.3
Heat Stress (Casting) (ห้องพักพนักงาน)	09:30-11:30	17.5	15.9	16.5	15.7	16.4
WBGT AVERAGE	09:30-11:30	-	-	-	-	20.1
STANDARD		-	-	-	-	32.0 ^{#1,2}

REMARK :

Work Load = 203.25 Kcal/hr.

^{#1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)^{#2} 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. Winida Jampaton)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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COPY

Request No. LA66-R0214

Report No. R6602-0226 - R6602-0228

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. : 01440-01442
MEASURING DATE : 08/02/2023 RECEIVED DATE : 09/02/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 13/02/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080012, TEU080011

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:00-11:00	29.1	29.3	29.4	29.5	29.3
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	27.2	28.7	29.0	28.9	28.4
Heat Stress (Casting) (ห้องพักพนักงาน)	09:00-11:00	23.9	23.1	23.9	23.7	23.7
WBGT AVERAGE	09:00-11:00	-	-	-	-	26.3
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 203.25 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

13/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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COPY



Request No. LA66-R0341

Report No. R6603-0802 - R6603-0804

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. : 02744-02746
 MEASURING DATE : 10/03/2023 RECEIVED DATE : 10/03/2023
 SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2023
 Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011, TEU080012, TEU080015

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:30-11:30	31.0	29.4	29.4	30.0	30.0
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	27.1	27.2	27.2	27.7	27.3
Heat Stress (Casting) (ห้องพักพนักงาน)	09:30-11:30	20.4	20.9	21.1	21.2	20.9
WBGT AVERAGE	09:30-11:30	-	-	-	-	25.0
STANDARD		-	-	-	-	32.0 ^{1/2}

REMARK :

Work Load = 203.25 Kcal/hr.

^{1/1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)^{1/2} 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. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

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Request No. LA66-R0431

Report No. R6604-0500 - R6604-0502

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. : 04249-04251
MEASURING DATE : 06/04/2023 RECEIVED DATE : 08/04/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 20/04/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TPL060040, TPI050070, TPL090016

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:30-11:30	30.8	31.0	31.2	31.2	31.0
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	30.2	30.2	30.3	30.3	30.3
Heat Stress (Casting) (ห้องพักพนักงาน)	09:30-11:30	23.0	23.0	23.0	23.2	23.0
WBGT AVERAGE	09:30-11:30	-	-	-	-	26.9
STANDARD		-	-	-	-	32.0 ^{1/2}

REMARK :

Work Load = 203.25 Kcal/hr.

^{1/1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)^{1/2} 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. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

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Request No. LA66-R0571

Report No. R6605-2807 - R6605-2809

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. : 09987-09989
MEASURING DATE : 16/05/2023 RECEIVED DATE : 18/05/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 24/05/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013, TEU080012, TEU080014

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress (Casting) (หน้าเตาหลอม)	09:30-11:30	29.5	30.4	30.7	30.8	30.4
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:30-11:30	28.8	29.5	29.9	30.2	29.6
Heat Stress (Casting) (ห้องพักพนักงาน)	09:30-11:30	28.8	24.9	24.4	24.7	25.7
WBGT AVERAGE	09:30-11:30	-	-	-	-	27.9
STANDARD		-	-	-	-	32.0 ^{1/2}

REMARK :

Work Load = 203.25 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/05/2023

COPY

Request No. LA66-R0659

Report No. R6606-2384 - R6606-2386

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. : 13589-13591
MEASURING DATE : 13/06/2023 RECEIVED DATE : 15/06/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 22/06/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080012, 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	29.8	29.8	29.8	29.6	29.7
Heat Stress (Casting) (พื้นที่ทำงานทั่วไป)	09:00-11:00	29.3	29.3	29.6	29.1	29.3
Heat Stress (Casting) (ห้องพักพนักงาน)	09:00-11:00	24.0	24.9	23.3	23.3	23.9
WBGT AVERAGE	09:00-11:00	-	-	-	-	26.7
STANDARD		-	-	-	-	32.0 ^{1,2}

REMARK :

Work Load = 203.25 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Moderate)² 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. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/06/2023

COPY

Request No. LA66-R0124

Report No. R6601-0680 - R6601-0682

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. : 00696-00698
 MEASURING DATE : 25/01/2023 RECEIVED DATE : 26/01/2023
 SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/01/2023
 Wet Bulb Globe Temperature (WBGT) : Serial No. TPQ030023, TEU080012, TEU080011

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:30-11:30	21.1	20.9	20.8	20.5	20.8
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:30-11:30	22.1	22.5	22.7	22.6	22.4
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:30-11:30	23.8	24.9	25.0	24.3	24.5
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:30-11:30	-	-	-	-	22.2
STANDARD		-	-	-	-	34.0 ^{1/2}

REMARK :

Work Load = 132.60 Kcal/hr.

^{1/1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)^{1/2} 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. Winida Jampaton)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

31/01/2023

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Request No. LA66-R0214

Report No. R6602-0232 - R6602-0234

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. : 00696-00698
 MEASURING DATE : 08/02/2023 RECEIVED DATE : 26/01/2023
 SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 31/01/2023
 Wet Bulb Globe Temperature (WBGT) : Serial No. TPI050069, TPL090016, TPL060040

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:20-11:20	17.9	19.3	21.9	21.8	20.2
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:20-11:20	28.8	28.7	28.8	28.8	28.8
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:20-11:20	28.3	28.7	29.2	29.2	28.8
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:20-11:20	-	-	-	-	24.9
STANDARD		-	-	-	-	34.0 ^{1,2}

REMARK :

Work Load = 132.60 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)² 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)

31/01/2023

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

COPY

Request No. LA66-0371

Report No. R6603-0793 - R6603-0795

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. : 02735-02737
MEASURING DATE : 08/03/2023 RECEIVED DATE : 10/03/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 16/03/2023

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080012, TEU080014, TEU080011

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:30-11:30	22.5	19.8	20.9	20.9	21.0
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:30-11:30	30.6	28.7	31.0	30.6	30.2
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:30-11:30	30.2	29.8	30.7	30.3	30.3
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:30-11:30	-	-	-	-	26.1
STANDARD		-	-	-	-	34.0 ^{1/2}

REMARK :

Work Load = 132.60 Kcal/hr.

^{1/1} Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)^{1/2} 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. Savita Kittinoavarat)



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.....

(MRS. WANPEN LHAOCHINDAWAT)

16/03/2023

COPY

Request No. LA66-R00431

Report No. R6604-0503 - R6604-0505

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 : เตารีดขนาด (Hot Rolling) SAMPLE NO. : 04252-04254
MEASURING DATE : 07/04/2023 RECEIVED DATE : 08/04/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 20/04/2023
Wet Bulb Globe Temperature (WBGT) : Serial No. TPI050070, TPH060001, TPL090016

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:30-11:30	20.9	20.0	19.7	19.5	20.0
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:30-11:30	30.7	31.1	30.7	30.9	30.8
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:30-11:30	30.7	30.9	31.8	31.5	31.2
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:30-11:30	-	-	-	-	26.0
STANDARD		-	-	-	-	34.0 ^{1,2}

REMARK :

Work Load = 132.60 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)² 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. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0627

Report No. R6606-0923 - R6606-0925

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. : 12117-12119
MEASURING DATE : 01/06/2023 RECEIVED DATE : 02/06/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 08/06/2024
Wet Bulb Globe Temperature (WBGT) : Serial No. 22004320, TEU080015, 22004318

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	29.0	29.5	30.4	30.5	29.8
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	29.4	29.7	29.7	29.7	29.7
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	23.1	23.0	22.6	20.7	22.4
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:00-11:00	-	-	-	-	27.9
STANDARD		-	-	-	-	34.0 ^{1,2}

REMARK :

Work Load = 132.60 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)² 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. Savita Kittinoavarat)



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(MRS. WANPEN LHAOCHINDAWAT)

08/06/2024

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Request No. LA66-R0754

Report No. R6607-2124 - R6607-2126

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. : 19305-19307
MEASURING DATE : 14/07/2023 RECEIVED DATE : 16/07/2023
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 19/07/2023

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011, TEU080012, TEU080014

PARAMETER*	Sampling Time	WBGT (°C)				Average (°C)
		30 min	60 min	90 min	120 min	
Heat Stress	09:00-11:00	21.4	20.9	20.9	20.7	21.0
เตารีดขนาด (Hot Rolling) (Control Room)						
Heat Stress	09:00-11:00	31.1	30.6	30.7	30.6	30.8
เตารีดขนาด (Hot Rolling) พื้นที่วางแท่ง Slab						
Heat Stress	09:00-11:00	31.8	31.6	31.7	31.6	31.7
เตารีดขนาด (Hot Rolling) (จุดวางชิ้นงาน, พื้นที่หน้าเตาอบแท่ง Slab)						
WBGT AVERAGE	09:00-11:00	-	-	-	-	26.6
STANDARD		-	-	-	-	34.0 ^{1/2}

REMARK :

Work Load = 132.60 Kcal/hr.

¹ Regulation of The Ministry of Labour B.E. 2559 (2016) (Light)² 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. Savita Kittinoavarat)



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19/07/2023

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