ภาคผนวกที่ 3

ใบรายงานผลการวิเคราะห์จากห้องปฏิบัติการ

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ENVIRONMENT RESEARCH & TECHNOLOGY CO., LTD.

Environment Research & Technology Company Limited
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E-mail : envi@enviresearch.co.th
www.enviresearch.co.th
Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Ambient Air Quality
Sampling Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727594 E, 1444309 N
Sampling Date : March 4-11, 2026
Sampling Time : 10:35
Sampling Method : U.S. EPA 40 CFR Part 50
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046
Received Date : March 13, 2026
Analytical Date : March 13-19, 2026
Report No. : 2026-RAAE920
Report Date : March 19, 2026

Parameter	Unit	Method of Analysis	Result							Standard[1']
			Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
Total Suspended Particulate (TSP) 24 Hours Average	µg/m³	High-Volume, United States Environment Protection Agency (Exclude sampling)	85	83	76	74	79	81	91	200

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Natnicha Sermmatiwong)
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(Ms.Ramita Taengthai)
Laboratory Supervisor

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Ambient Air Quality
Sampling Point : โรงเรียนบ้านบ่อวิน (ลิขิตราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0724012 E, 1443482 N
Sampling Date : March 4-11, 2026
Sampling Time : 11:22
Sampling Method : U.S. EPA 40 CFR Part 50
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046
Received Date : March 13, 2026
Analytical Date : March 13-19, 2026
Report No. : 2026-RAAE921
Report Date : March 19, 2026

Parameter	Unit	Method of Analysis	Result							Standard[1']
			Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
Total Suspended Particulate (TSP) 24 Hours Average	µg/m³	High-Volume, United States Environment Protection Agency (Exclude sampling)	109	105	90	85	88	104	92	200

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Ambient Air Quality
Sampling Point : วัดพันเสด็จนอก ตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0729602 E, 1447631 N
Sampling Date : March 4-11, 2026
Sampling Time : 10:05
Sampling Method : U.S. EPA 40 CFR Part 50
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046
Received Date : March 13, 2026
Analytical Date : March 13-19, 2026
Report No. : 2026-RAAE923
Report Date : March 19, 2026

Parameter	Unit	Method of Analysis	Result							Standard[1']
			Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
Total Suspended Particulate (TSP) 24 Hours Average	$\mu g/m^3$	High-Volume, United States Environment Protection Agency (Exclude sampling)	82	71	70	74	91	90	86	200

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727594 E, 1444309 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : SO_2 UV-Fluorescence Analyzer Horiba Model APSA-370 Serial Number X7L602W6

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-001
Report No. : 2026-RAAF148
Report Date : March 25, 2026

Interval Time	Result SO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
11:00-12:00	1.2	1.2	1.3	1.4	3.2	2.5	2.0	
12:00-13:00	1.4	0.9	1.3	1.2	3.9	2.5	2.2	
13:00-14:00	1.1	0.8	1.4	1.0	3.6	2.6	2.4	
14:00-15:00	1.2	0.7	1.1	1.4	3.1	2.7	2.2	
15:00-16:00	1.3	0.8	1.3	1.3	3.6	2.9	1.9	
16:00-17:00	1.2	1.3	1.5	1.8	4.0	2.9	1.9	
17:00-18:00	0.6	1.2	1.6	1.8	3.5	2.4	2.1	
18:00-19:00	1.2	1.3	1.4	1.4	2.0	2.6	2.1	
19:00-20:00	0.9	1.0	1.2	1.3	1.8	2.2	1.9	
20:00-21:00	0.8	0.8	0.9	1.3	1.6	1.7	1.2	
21:00-22:00	1.1	0.8	0.8	1.2	1.9	1.5	1.1	
22:00-23:00	1.0	1.2	0.8	1.2	1.7	1.5	0.9	
23:00-00:00	1.1	1.1	0.8	1.5	1.6	1.3	0.8	
00:00-01:00	1.0	1.0	0.9	1.5	1.7	1.3	0.8	
01:00-02:00	1.0	1.0	0.8	1.5	1.6	1.5	0.8	
02:00-03:00	1.0	1.0	0.8	1.3	1.7	1.2	0.7	
03:00-04:00	0.9	1.0	0.8	1.5	1.6	1.3	0.9	
04:00-05:00	0.9	1.0	0.9	1.6	1.6	1.5	0.6	
05:00-06:00	0.9	1.0	0.8	1.7	1.7	1.2	0.8	
06:00-07:00	0.9	1.0	1.0	1.9	1.8	1.2	1.0	
07:00-08:00	0.9	1.0	0.8	2.3	1.7	1.3	0.8	
08:00-09:00	0.9	0.9	1.0	2.1	2.0	1.4	0.7	
09:00-10:00	1.0	0.9	1.1	2.0	2.0	1.5	1.3	
10:00-11:00	1.2	1.4	1.0	2.3	2.0	1.8	1.8	
24 Hours Average	**1.0**	**1.0**	**1.1**	**1.6**	**2.3**	**1.9**	**1.4**	**≤ 50**
1 Hour Maximum	**1.4**	**1.4**	**1.6**	**2.3**	**4.0**	**2.9**	**2.4**	**≤ 100**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)
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(Ms.Panicha Promchai)
Laboratory Supervisor

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727594 E, 1444309 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number VLR55LT4

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-001
Report No. : 2026-RAAF146
Report Date : March 25, 2026

Interval Time	Result NO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
11:00-12:00	18.4	7.7	2.0	3.5	6.7	4.0	1.9	
12:00-13:00	23.6	23.0	6.8	3.9	3.1	3.2	2.6	
13:00-14:00	30.0	23.6	13.1	2.2	5.2	12.9	1.4	
14:00-15:00	45.8	30.6	36.8	3.3	4.5	11.7	2.4	
15:00-16:00	46.1	21.8	39.0	5.3	17.0	7.9	1.2	
16:00-17:00	45.7	17.0	42.6	38.4	32.7	9.6	8.6	
17:00-18:00	41.5	5.7	43.5	42.6	21.1	16.8	48.5	
18:00-19:00	46.3	6.2	41.3	20.0	29.7	35.9	45.3	
19:00-20:00	47.3	16.5	9.8	15.6	24.3	22.8	44.8	
20:00-21:00	22.4	14.7	6.4	47.5	23.2	6.0	20.1	
21:00-22:00	21.0	12.3	12.4	45.8	23.3	11.8	28.2	
22:00-23:00	12.0	14.0	8.5	40.0	27.8	35.0	27.8	
23:00-00:00	12.2	14.8	24.0	36.7	28.2	23.8	36.5	
00:00-01:00	13.0	16.3	25.1	36.1	29.5	27.2	38.2	
01:00-02:00	11.7	21.6	9.7	30.6	26.3	38.5	31.7	
02:00-03:00	13.1	24.4	12.5	25.8	25.8	39.0	28.9	
03:00-04:00	12.3	20.3	16.5	32.4	29.1	38.3	31.2	
04:00-05:00	8.9	18.8	22.0	30.3	28.4	33.0	29.9	
05:00-06:00	6.2	18.1	21.6	32.2	24.2	18.8	26.2	
06:00-07:00	5.7	19.8	29.3	30.5	26.6	20.0	39.1	
07:00-08:00	12.2	19.1	23.1	31.9	24.3	17.9	42.1	
08:00-09:00	15.5	17.4	23.4	35.8	26.4	19.9	18.0	
09:00-10:00	19.0	8.9	16.0	30.2	18.1	8.2	9.3	
10:00-11:00	10.5	3.2	9.6	16.9	10.2	4.0	8.0	
24 Hours Average	**22.5**	**16.5**	**20.6**	**26.6**	**21.5**	**19.4**	**23.8**	-
1 Hour Maximum	**47.3**	**30.6**	**43.5**	**47.5**	**32.7**	**39.0**	**48.5**	**≤ 120**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727594 E, 1444309 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Thermo Model 48C Serial Number 0508011071

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-001
Report No. : 2026-RAAF149
Report Date : March 25, 2026

Interval Time	Result CO (ppm)							
	Mar 4-5, 26		Mar 5-6, 26		Mar 6-7, 26		Mar 7-8, 26	
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg
11:00-12:00	0.7	-	0.7	0.8	0.5	0.7	0.4	0.6
12:00-13:00	0.8	-	0.6	0.8	0.4	0.7	0.4	0.6
13:00-14:00	0.8	-	0.6	0.8	0.4	0.6	0.3	0.5
14:00-15:00	0.8	-	0.5	0.7	0.4	0.6	0.3	0.4
15:00-16:00	0.7	-	0.5	0.7	0.3	0.5	0.3	0.4
16:00-17:00	0.7	-	0.5	0.6	0.3	0.4	0.3	0.4
17:00-18:00	0.7	-	0.5	0.6	0.4	0.4	0.3	0.3
18:00-19:00	0.8	0.8	0.5	0.6	0.4	0.4	0.4	0.3
19:00-20:00	0.8	0.8	0.6	0.5	0.5	0.4	0.5	0.4
20:00-21:00	0.9	0.8	0.6	0.5	0.6	0.4	0.6	0.4
21:00-22:00	0.9	0.8	0.7	0.6	0.6	0.4	0.6	0.4
22:00-23:00	0.9	0.8	0.7	0.6	0.6	0.5	0.6	0.4
23:00-00:00	0.9	0.8	0.7	0.6	0.7	0.5	0.6	0.5
00:00-01:00	0.9	0.8	0.7	0.6	0.7	0.6	0.6	0.5
01:00-02:00	0.9	0.9	0.7	0.6	0.7	0.6	0.6	0.6
02:00-03:00	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.6
03:00-04:00	0.9	0.9	0.8	0.7	0.7	0.7	0.6	0.6
04:00-05:00	0.9	0.9	0.8	0.7	0.7	0.7	0.6	0.6
05:00-06:00	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6
06:00-07:00	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6
07:00-08:00	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6
08:00-09:00	0.9	0.9	0.7	0.8	0.6	0.7	0.6	0.6
09:00-10:00	0.8	0.9	0.8	0.8	0.5	0.7	0.5	0.6
10:00-11:00	0.8	0.9	0.5	0.8	0.4	0.6	0.4	0.6
24 Hours Average	**0.8**	-	**0.7**	-	**0.6**	-	**0.5**	-
1 Hour Maximum	**0.9**	-	**0.8**	-	**0.7**	-	**0.6**	-
8 Hours Maximum	-	**0.9**	-	**0.8**	-	**0.7**	-	**0.6**

Remark : 1/ Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727594 E, 1444309 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Thermo Model 48C Serial Number 0508011071

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-001
Report No. : 2026-RAAF149
Report Date : March 25, 2026

Interval Time	Result CO (ppm)						Standard[1']
	Mar 8-9, 26		Mar 9-10, 26		Mar 10-11, 26		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
11:00-12:00	0.4	0.5	0.6	0.6	0.4	0.6	
12:00-13:00	0.4	0.5	0.8	0.6	0.3	0.5	
13:00-14:00	0.3	0.5	0.6	0.6	0.3	0.5	
14:00-15:00	0.3	0.4	0.4	0.6	0.3	0.4	
15:00-16:00	0.3	0.4	0.3	0.5	0.3	0.4	
16:00-17:00	0.3	0.4	0.3	0.5	0.3	0.4	
17:00-18:00	0.3	0.3	0.4	0.5	0.4	0.4	
18:00-19:00	0.4	0.3	0.4	0.5	0.4	0.3	
19:00-20:00	0.5	0.4	0.4	0.4	0.4	0.3	
20:00-21:00	0.6	0.4	0.5	0.4	0.5	0.4	
21:00-22:00	0.5	0.4	0.5	0.4	0.5	0.4	
22:00-23:00	0.5	0.4	0.6	0.4	0.6	0.4	
23:00-00:00	0.6	0.5	0.6	0.5	0.6	0.5	
00:00-01:00	0.6	0.5	0.6	0.5	0.6	0.5	
01:00-02:00	0.6	0.5	0.6	0.5	0.6	0.5	
02:00-03:00	0.6	0.6	0.6	0.6	0.6	0.6	
03:00-04:00	0.6	0.6	0.6	0.6	0.6	0.6	
04:00-05:00	0.6	0.6	0.6	0.6	0.6	0.6	
05:00-06:00	0.6	0.6	0.6	0.6	0.6	0.6	
06:00-07:00	0.6	0.6	0.6	0.6	0.6	0.6	
07:00-08:00	0.6	0.6	0.6	0.6	0.6	0.6	
08:00-09:00	0.5	0.6	0.6	0.6	0.6	0.6	
09:00-10:00	0.5	0.6	0.5	0.6	0.5	0.6	
10:00-11:00	0.5	0.6	0.5	0.6	0.4	0.6	
24 Hours Average	**0.5**	-	**0.5**	-	**0.5**	-	-
1 Hour Maximum	**0.6**	-	**0.8**	-	**0.6**	-	**≤ 30**
8 Hours Maximum	-	**0.6**	-	**0.6**	-	**0.6**	**≤ 9**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)
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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านบ่อวิน (ลิขิตราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0724010 E, 1443482 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : SO_2 UV-Fluorescence Analyzer Thermo Model 43i Serial Number CM14430003

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-008
Report No. : 2026-RAAF152
Report Date : March 25, 2026

Interval Time	Result SO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
11:00-12:00	1.6	1.8	1.3	1.4	1.1	1.0	1.0	
12:00-13:00	1.8	2.2	1.1	1.2	1.1	1.0	1.2	
13:00-14:00	1.2	2.5	0.7	1.1	1.0	0.9	1.3	
14:00-15:00	2.0	2.4	1.1	1.0	1.4	1.1	1.5	
15:00-16:00	1.8	2.1	1.2	0.8	1.4	1.1	1.2	
16:00-17:00	1.7	1.9	1.0	0.5	1.1	0.8	0.9	
17:00-18:00	1.7	1.5	0.6	0.5	1.4	1.4	0.7	
18:00-19:00	1.9	1.4	0.7	0.5	1.2	1.1	0.8	
19:00-20:00	3.4	2.5	1.2	1.1	1.7	1.0	0.8	
20:00-21:00	3.4	3.3	1.0	1.3	1.5	1.0	0.8	
21:00-22:00	2.9	2.8	0.6	1.2	2.0	1.1	1.0	
22:00-23:00	2.8	2.3	0.7	1.6	2.1	1.2	0.9	
23:00-00:00	3.6	2.0	1.0	2.3	1.5	1.8	1.2	
00:00-01:00	3.6	1.8	1.4	1.6	1.5	1.8	1.3	
01:00-02:00	2.4	1.9	2.0	1.7	1.7	2.1	1.3	
02:00-03:00	1.8	1.6	1.9	1.7	2.0	2.2	1.0	
03:00-04:00	2.3	1.8	1.2	1.5	1.8	2.2	1.0	
04:00-05:00	3.1	2.0	1.3	1.4	1.6	2.2	1.1	
05:00-06:00	2.4	2.3	1.1	1.5	1.7	1.7	1.0	
06:00-07:00	1.8	3.0	1.5	5.0	1.8	1.5	0.8	
07:00-08:00	2.5	2.7	1.5	2.2	2.5	1.4	1.2	
08:00-09:00	1.9	1.6	1.7	1.0	1.8	1.3	1.1	
09:00-10:00	1.4	1.0	1.3	0.7	1.1	1.0	0.7	
10:00-11:00	1.6	1.2	1.4	1.1	1.0	0.9	0.6	
24 Hours Average	**2.3**	**2.1**	**1.2**	**1.4**	**1.5**	**1.4**	**1.0**	**≤ 50**
1 Hour Maximum	**3.6**	**3.3**	**2.0**	**5.0**	**2.5**	**2.2**	**1.5**	**≤ 100**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)
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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : **โรงเรียนบ้านบ่อวิน (ลิขิตราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี**
GPS. Coordinate : UTM (WGS84) 47P 0724010 E, 1443482 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number A4LUUFHB

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-008
Report No. : 2026-RAAF150
Report Date : March 25, 2026

Interval Time	Result NO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
11:00-12:00	17.7	19.3	13.5	15.7	8.3	13.9	7.7	
12:00-13:00	25.0	21.4	11.2	7.5	7.5	12.7	7.4	
13:00-14:00	27.1	20.3	7.4	7.6	7.4	9.5	7.6	
14:00-15:00	26.1	19.2	7.5	7.3	7.4	8.5	7.6	
15:00-16:00	22.4	16.4	7.6	7.4	7.5	12.0	24.1	
16:00-17:00	19.3	8.1	7.3	7.5	7.3	8.4	26.7	
17:00-18:00	18.2	7.3	7.4	7.7	13.5	7.5	32.5	
18:00-19:00	16.2	8.0	14.3	12.7	15.9	7.6	31.8	
19:00-20:00	12.4	9.5	17.8	16.0	18.1	7.8	25.9	
20:00-21:00	10.8	8.4	19.1	19.9	21.5	15.8	23.7	
21:00-22:00	8.3	9.1	20.8	20.3	24.9	17.2	20.8	
22:00-23:00	8.2	9.0	18.2	23.4	26.2	20.9	16.1	
23:00-00:00	9.0	8.7	9.6	30.2	23.0	25.9	7.9	
00:00-01:00	11.4	8.2	8.6	22.8	10.4	26.5	7.6	
01:00-02:00	11.9	7.8	9.1	17.4	10.3	22.6	8.9	
02:00-03:00	11.4	7.8	9.7	10.4	10.0	21.7	8.0	
03:00-04:00	12.8	7.9	9.4	18.9	10.2	10.2	8.3	
04:00-05:00	13.5	13.1	17.5	21.6	9.1	10.0	8.4	
05:00-06:00	14.8	15.3	19.4	23.1	9.5	9.6	8.8	
06:00-07:00	18.8	17.9	23.7	29.8	18.5	9.9	10.0	
07:00-08:00	23.9	20.0	26.5	25.2	24.9	11.5	12.3	
08:00-09:00	23.7	18.2	25.1	19.5	26.8	8.5	15.1	
09:00-10:00	26.5	18.1	20.6	14.8	21.1	8.0	17.1	
10:00-11:00	27.4	16.0	18.8	7.9	16.0	7.8	19.7	
24 Hours Average	**17.4**	**13.1**	**14.6**	**16.4**	**14.8**	**13.1**	**15.2**	-
1 Hour Maximum	**27.4**	**21.4**	**26.5**	**30.2**	**26.8**	**26.5**	**32.5**	**≤ 120**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : โรงเรียนบ้านบ่อวิน (ลิขิตราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0724010 E, 1443482 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Thermo Model 48C Serial Number 0415406564

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-008
Report No. : 2026-RAAF154
Report Date : March 25, 2026

Interval Time	Result CO (ppm)							
	Mar 4-5, 26		Mar 5-6, 26		Mar 6-7, 26		Mar 7-8, 26	
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg
11:00-12:00	0.4	-	0.4	0.6	0.3	0.6	0.3	0.5
12:00-13:00	0.6	-	0.4	0.6	0.3	0.6	0.3	0.5
13:00-14:00	0.6	-	0.3	0.5	0.3	0.5	0.4	0.4
14:00-15:00	0.5	-	0.3	0.5	0.3	0.4	0.4	0.4
15:00-16:00	0.4	-	0.3	0.4	0.3	0.3	0.4	0.4
16:00-17:00	0.4	-	0.3	0.4	0.3	0.3	0.4	0.4
17:00-18:00	0.5	-	0.3	0.3	0.4	0.3	0.2	0.3
18:00-19:00	0.5	0.5	0.4	0.3	0.4	0.3	0.5	0.4
19:00-20:00	0.9	0.6	0.6	0.4	0.4	0.3	0.7	0.4
20:00-21:00	0.8	0.6	0.5	0.4	0.4	0.4	0.7	0.5
21:00-22:00	0.8	0.6	0.6	0.4	0.4	0.4	0.7	0.5
22:00-23:00	0.7	0.6	0.6	0.4	0.5	0.4	0.8	0.6
23:00-00:00	0.9	0.7	0.6	0.5	0.5	0.4	0.9	0.6
00:00-01:00	0.8	0.7	0.6	0.5	0.5	0.4	0.8	0.7
01:00-02:00	0.5	0.7	0.5	0.6	0.6	0.5	0.7	0.7
02:00-03:00	0.5	0.7	0.5	0.6	0.6	0.5	0.8	0.8
03:00-04:00	0.6	0.7	0.5	0.6	0.6	0.5	0.7	0.8
04:00-05:00	0.9	0.7	0.8	0.6	0.6	0.5	0.7	0.8
05:00-06:00	0.8	0.7	1.1	0.6	0.6	0.6	0.7	0.8
06:00-07:00	0.6	0.7	0.9	0.7	0.7	0.6	1.0	0.8
07:00-08:00	1.0	0.7	0.9	0.7	0.7	0.6	0.8	0.8
08:00-09:00	0.5	0.7	0.5	0.7	0.5	0.6	0.4	0.7
09:00-10:00	0.5	0.7	0.4	0.7	0.3	0.6	0.4	0.7
10:00-11:00	0.4	0.7	0.3	0.7	0.3	0.5	0.5	0.6
24 Hours Average	**0.6**	**-**	**0.5**	**-**	**0.5**	**-**	**0.6**	**-**
1 Hour Maximum	**1.0**	**-**	**1.1**	**-**	**0.7**	**-**	**1.0**	**-**
8 Hours Maximum	**-**	**0.7**	**-**	**0.7**	**-**	**0.6**	**-**	**0.8**

Remark : [1] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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www.enviresearch.co.th
Head Office/Tax ID 0105 542 064 981

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Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : **โรงเรียนบ้านบ่อวิน (ลิขิตราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี**
GPS. Coordinate : UTM (WGS84) 47P 0724010 E, 1443482 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Thermo Model 48C Serial Number 0415406564

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-008
Report No. : 2026-RAAF154
Report Date : March 25, 2026

Interval Time	Result CO (ppm)						Standard[1/]
	Mar 8-9, 26		Mar 9-10, 26		Mar 10-11, 26		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
11:00-12:00	0.4	0.6	0.4	0.7	0.4	0.6	
12:00-13:00	0.3	0.6	0.4	0.7	0.4	0.5	
13:00-14:00	0.3	0.5	0.4	0.6	0.4	0.5	
14:00-15:00	0.3	0.4	0.4	0.6	0.3	0.4	
15:00-16:00	0.3	0.4	0.4	0.5	0.5	0.4	
16:00-17:00	0.3	0.4	0.5	0.4	0.5	0.4	
17:00-18:00	0.5	0.4	0.5	0.4	0.5	0.4	
18:00-19:00	0.5	0.4	0.6	0.4	0.6	0.4	
19:00-20:00	0.8	0.4	0.5	0.5	0.6	0.5	
20:00-21:00	1.2	0.5	0.5	0.5	0.7	0.5	
21:00-22:00	1.2	0.6	0.6	0.5	0.6	0.5	
22:00-23:00	1.1	0.7	0.6	0.5	0.6	0.6	
23:00-00:00	0.9	0.8	0.8	0.6	0.6	0.6	
00:00-01:00	0.9	0.9	0.8	0.6	0.6	0.6	
01:00-02:00	0.9	0.9	0.7	0.6	0.7	0.6	
02:00-03:00	0.8	1.0	0.8	0.7	0.6	0.6	
03:00-04:00	0.9	1.0	0.8	0.7	0.7	0.6	
04:00-05:00	0.8	0.9	0.8	0.7	0.7	0.6	
05:00-06:00	0.8	0.9	0.7	0.8	0.7	0.6	
06:00-07:00	0.9	0.9	0.7	0.8	0.8	0.7	
07:00-08:00	1.2	0.9	0.8	0.8	1.0	0.7	
08:00-09:00	0.8	0.9	0.5	0.7	0.7	0.7	
09:00-10:00	0.5	0.8	0.4	0.7	0.6	0.7	
10:00-11:00	0.5	0.8	0.4	0.6	0.5	0.7	
24 Hours Average	**0.7**	-	**0.6**	-	**0.6**	-	-
1 Hour Maximum	**1.2**	-	**0.8**	-	**1.0**	-	**≤ 30**
8 Hours Maximum	-	**1.0**	-	**0.8**	-	**0.7**	**≤ 9**

Remark : [1/] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)
Laboratory Reviewer

(Ms.Panicha Promchai)
Laboratory Supervisor

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : วัดพันเสด็จนอก ตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0729602 E, 1447631 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : SO_2 UV-Fluorescence Analyzer Thermo Model 43C Serial Number 64389-343/2

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-015
Report No. : 2026-RAAF162
Report Date : March 25, 2026

Interval Time	Result SO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
10:00-11:00	1.1	1.1	1.1	1.8	0.9	0.9	1.0	
11:00-12:00	1.2	1.1	1.2	1.4	0.7	0.9	1.0	
12:00-13:00	1.3	1.4	0.9	1.4	0.9	1.1	0.9	
13:00-14:00	1.7	1.4	0.7	1.4	0.9	1.2	1.0	
14:00-15:00	2.1	1.3	0.8	1.4	1.0	1.3	1.1	
15:00-16:00	1.7	1.3	0.9	1.6	1.0	1.2	1.2	
16:00-17:00	1.7	1.3	0.9	1.6	1.1	1.1	1.4	
17:00-18:00	1.4	1.3	1.2	1.7	1.0	1.4	1.4	
18:00-19:00	1.2	1.1	1.0	1.5	1.0	1.4	1.3	
19:00-20:00	1.2	1.2	1.5	1.5	0.8	1.3	1.3	
20:00-21:00	1.2	1.2	1.6	1.2	0.9	1.0	1.0	
21:00-22:00	1.2	1.2	1.7	0.8	1.4	0.9	0.9	
22:00-23:00	1.0	1.1	1.6	0.8	1.3	0.7	0.7	
23:00-00:00	1.0	1.0	1.4	1.2	1.0	1.1	1.1	
00:00-01:00	1.1	1.2	1.7	1.0	1.1	1.1	1.3	
01:00-02:00	1.2	2.2	2.0	1.1	1.2	1.1	1.1	
02:00-03:00	1.9	2.1	2.0	1.0	1.0	0.8	1.2	
03:00-04:00	1.6	1.5	2.0	0.9	1.1	1.0	0.9	
04:00-05:00	1.2	1.0	2.0	1.1	1.0	1.0	0.9	
05:00-06:00	1.2	0.7	1.2	0.8	1.1	1.2	0.9	
06:00-07:00	1.1	1.0	1.1	0.9	1.0	1.0	1.1	
07:00-08:00	1.1	1.4	1.2	1.0	1.1	1.0	1.2	
08:00-09:00	1.0	0.8	1.8	0.9	0.9	1.0	1.0	
09:00-10:00	1.0	0.9	2.0	0.8	0.8	1.1	1.2	
24 Hours Average	**1.3**	**1.2**	**1.4**	**1.2**	**1.0**	**1.1**	**1.1**	**≤ 50**
1 Hour Maximum	**2.1**	**2.2**	**2.0**	**1.8**	**1.4**	**1.4**	**1.4**	**≤ 100**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : วัดพันเสด็จนอก ตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0729602 E, 1447631 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : NOx Chemiluminescence Analyzer API Model 200A Serial Number 1650

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-015
Report No. : 2026-RAAF160
Report Date : March 25, 2026

Interval Time	Result NO_2 (ppb)							Standard[1']
	Mar 4-5, 26	Mar 5-6, 26	Mar 6-7, 26	Mar 7-8, 26	Mar 8-9, 26	Mar 9-10, 26	Mar 10-11, 26	
10:00-11:00	9.2	7.2	7.1	7.3	6.7	6.2	7.1	
11:00-12:00	8.8	5.3	5.4	6.0	5.7	4.9	6.4	
12:00-13:00	6.8	5.3	5.0	4.1	4.5	4.7	4.6	
13:00-14:00	7.4	4.7	5.0	4.1	3.9	4.5	4.8	
14:00-15:00	8.2	4.7	7.3	4.3	3.7	5.0	4.4	
15:00-16:00	8.1	5.3	7.3	4.7	4.6	5.6	5.7	
16:00-17:00	6.9	7.6	5.1	5.6	5.3	6.7	4.8	
17:00-18:00	6.7	10.4	4.7	8.1	7.5	6.2	4.2	
18:00-19:00	9.4	19.0	12.8	17.6	11.3	5.5	4.6	
19:00-20:00	24.2	20.4	13.1	16.3	17.2	6.3	10.7	
20:00-21:00	21.7	18.7	13.8	20.1	21.4	9.0	11.5	
21:00-22:00	15.2	16.8	13.3	25.7	21.7	20.4	12.6	
22:00-23:00	19.5	19.3	18.6	20.5	20.1	23.4	15.9	
23:00-00:00	16.6	15.8	17.8	21.4	19.7	18.3	12.8	
00:00-01:00	16.4	10.1	18.3	20.6	16.0	15.5	12.9	
01:00-02:00	13.4	10.1	12.0	17.5	12.6	15.3	11.0	
02:00-03:00	12.1	10.7	15.1	13.4	10.4	11.5	9.8	
03:00-04:00	12.0	11.6	15.4	11.9	9.3	13.3	8.7	
04:00-05:00	10.0	14.4	15.5	11.8	8.6	17.2	10.7	
05:00-06:00	9.3	15.4	16.9	12.5	9.1	18.4	7.8	
06:00-07:00	8.7	15.5	13.8	11.4	9.5	21.3	9.8	
07:00-08:00	12.2	15.1	17.1	11.4	11.5	13.6	13.1	
08:00-09:00	17.1	11.3	15.6	5.5	13.7	10.2	10.9	
09:00-10:00	15.1	7.0	8.5	5.9	8.1	7.6	10.9	
24 Hours Average	**12.3**	**11.7**	**11.9**	**12.0**	**10.9**	**11.3**	**9.0**	-
1 Hour Maximum	**24.2**	**20.4**	**18.6**	**25.7**	**21.7**	**23.4**	**15.9**	**≤ 120**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : วัดพันเสด็จนอก ตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0729602 E, 1447631 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Horiba Model APMA-370 Serial Number HXA8A4TG

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-015
Report No. : 2026-RAAF163
Report Date : March 25, 2026

Interval Time	Result CO (ppm)							
	Mar 4-5, 26		Mar 5-6, 26		Mar 6-7, 26		Mar 7-8, 26	
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg
10:00-11:00	0.4	-	0.5	0.5	0.4	0.5	0.4	0.4
11:00-12:00	0.4	-	0.4	0.5	0.4	0.5	0.5	0.4
12:00-13:00	0.4	-	0.4	0.5	0.4	0.5	0.5	0.5
13:00-14:00	0.5	-	0.5	0.5	0.4	0.5	0.5	0.5
14:00-15:00	0.5	-	0.5	0.5	0.4	0.4	0.5	0.5
15:00-16:00	0.5	-	0.4	0.5	0.4	0.4	0.4	0.5
16:00-17:00	0.5	-	0.4	0.5	0.4	0.4	0.4	0.5
17:00-18:00	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
18:00-19:00	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
19:00-20:00	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
20:00-21:00	0.8	0.5	0.5	0.4	0.4	0.4	0.5	0.4
21:00-22:00	0.6	0.5	0.6	0.5	0.4	0.4	0.6	0.5
22:00-23:00	0.6	0.5	0.5	0.5	0.4	0.4	0.6	0.5
23:00-00:00	0.6	0.6	0.5	0.5	0.5	0.4	0.7	0.5
00:00-01:00	0.5	0.6	0.5	0.5	0.4	0.4	0.8	0.6
01:00-02:00	0.5	0.6	0.4	0.5	0.4	0.4	0.7	0.6
02:00-03:00	0.5	0.6	0.4	0.5	0.4	0.4	0.7	0.6
03:00-04:00	0.5	0.6	0.4	0.5	0.4	0.4	0.6	0.6
04:00-05:00	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.6
05:00-06:00	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.6
06:00-07:00	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6
07:00-08:00	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.6
08:00-09:00	0.7	0.5	0.6	0.4	0.5	0.4	0.5	0.6
09:00-10:00	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5
24 Hours Average	**0.5**	**-**	**0.5**	**-**	**0.4**	**-**	**0.5**	**-**
1 Hour Maximum	**0.8**	**-**	**0.6**	**-**	**0.5**	**-**	**0.8**	**-**
8 Hours Maximum	**-**	**0.6**	**-**	**0.5**	**-**	**0.5**	**-**	**0.6**

Remark : 1/ Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)
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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : วัดพันเสด็จนอก ตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี
GPS. Coordinate : UTM (WGS84) 47P 0729602 E, 1447631 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : CO NDIR Analyzer Horiba Model APMA-370 Serial Number HXA8A4TG

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-015
Report No. : 2026-RAAF163
Report Date : March 25, 2026

Interval Time	Result CO (ppm)						Standard[1']
	Mar 8-9, 26		Mar 9-10, 26		Mar 10-11, 26		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
10:00-11:00	0.4	0.5	0.5	0.5	0.4	0.5	
11:00-12:00	0.5	0.5	0.5	0.5	0.5	0.5	
12:00-13:00	0.5	0.5	0.5	0.5	0.5	0.5	
13:00-14:00	0.5	0.5	0.5	0.5	0.5	0.5	
14:00-15:00	0.5	0.5	0.5	0.5	0.5	0.5	
15:00-16:00	0.4	0.5	0.5	0.5	0.5	0.5	
16:00-17:00	0.4	0.4	0.5	0.5	0.5	0.5	
17:00-18:00	0.5	0.5	0.5	0.5	0.4	0.5	
18:00-19:00	0.4	0.5	0.5	0.5	0.5	0.5	
19:00-20:00	0.5	0.5	0.5	0.5	0.4	0.5	
20:00-21:00	0.6	0.5	0.5	0.5	0.5	0.5	
21:00-22:00	0.7	0.5	0.5	0.5	0.5	0.5	
22:00-23:00	0.8	0.5	0.5	0.5	0.5	0.5	
23:00-00:00	0.7	0.6	0.6	0.5	0.5	0.5	
00:00-01:00	0.7	0.6	0.5	0.5	0.5	0.5	
01:00-02:00	0.6	0.6	0.5	0.5	0.5	0.5	
02:00-03:00	0.6	0.6	0.5	0.5	0.5	0.5	
03:00-04:00	0.5	0.6	0.5	0.5	0.5	0.5	
04:00-05:00	0.5	0.6	0.5	0.5	0.5	0.5	
05:00-06:00	0.5	0.6	0.6	0.5	0.5	0.5	
06:00-07:00	0.5	0.6	0.6	0.5	0.6	0.5	
07:00-08:00	0.5	0.6	0.6	0.5	0.6	0.5	
08:00-09:00	0.6	0.5	0.5	0.5	0.7	0.6	
09:00-10:00	0.5	0.5	0.5	0.5	0.7	0.6	
24 Hours Average	**0.5**	**-**	**0.5**	**-**	**0.5**	**-**	**-**
1 Hour Maximum	**0.8**	**-**	**0.6**	**-**	**0.7**	**-**	**≤ 30**
8 Hours Maximum	**-**	**0.6**	**-**	**0.5**	**-**	**0.6**	**≤ 9**

Remark : [1'] Notification of National Environmental Board, B.E.2569 (2026), published in the Royal Government Gazette No.143 Special Part 20D dated January 21, B.E.2569 (2026) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : **พื้นที่โครงการ (สำนักงานนิคม)**
GPS. Coordinate : UTM (WGS84) 47P 0726887 E, 1443658 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-022
Report No. : 2026-RAAF170
Report Date : March 25, 2026

Date/Time	Mar 4-5, 26		Mar 5-6, 26		Mar 6-7, 26		Mar 7-8, 26		Mar 8-9, 26		Mar 9-10, 26		Mar 10-11, 26	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
09:00-10:00	0.4	SSE	0.9	E	1.8	NE	1.3	ENE	0.4	W	0.9	E	4.0	NE
10:00-11:00	0.4	SSE	0.9	SE	1.8	E	1.8	NE	1.3	NE	2.2	NE	4.5	ENE
11:00-12:00	1.3	WSW	1.8	SSE	0.9	ENE	4.0	ENE	3.6	NE	3.6	ENE	4.0	ENE
12:00-13:00	1.3	WSW	2.2	WSW	1.3	ESE	2.7	NE	2.7	ENE	3.1	NE	4.0	NE
13:00-14:00	1.3	WNW	2.2	WSW	1.8	SE	2.7	ENE	2.2	NE	3.1	NE	2.7	ENE
14:00-15:00	1.8	W	1.8	WSW	1.8	ENE	2.7	NE	2.2	ENE	2.2	NNE	2.2	ENE
15:00-16:00	3.1	WSW	1.8	WSW	2.2	NNE	1.8	ENE	2.7	W	2.2	NE	2.2	ENE
16:00-17:00	3.1	WSW	2.7	SSE	2.7	NNW	3.1	WSW	3.6	WSW	1.8	E	2.2	ENE
17:00-18:00	2.7	W	2.2	SW	2.2	NW	3.6	WSW	3.6	WSW	2.7	WSW	3.1	W
18:00-19:00	2.2	WSW	2.2	SW	1.8	N	3.6	SSE	0.9	NNE	2.7	WSW	2.7	WSW
19:00-20:00	0.9	WSW	1.8	SE	2.2	NE	1.8	WSW	0.9	WSW	1.8	WSW	1.8	WSW
20:00-21:00	1.3	SE	1.3	SE	1.8	ENE	0.4	NE	0.4	WSW	0.9	WSW	0.4	SW
21:00-22:00	1.8	SSE	0.9	E	2.2	ESE	0.9	NNE	0.4	SE	0.4	WSW	0.4	SW
22:00-23:00	1.3	SE	0.9	ENE	1.8	ESE	0.4	WSW	0.4	E	<0.4	Calm	0.4	SW
23:00-00:00	0.4	SE	0.9	ENE	1.3	SE	0.4	ESE	<0.4	Calm	0.4	SE	<0.4	Calm
00:00-01:00	0.9	SE	1.3	ENE	0.9	SE	<0.4	Calm	0.4	ENE	<0.4	Calm	0.4	SW
01:00-02:00	0.9	SE	0.9	ENE	0.4	SE	<0.4	Calm	<0.4	Calm	0.4	NNE	<0.4	Calm
02:00-03:00	<0.4	Calm	0.9	ENE	<0.4	Calm	<0.4	Calm	<0.4	Calm	<0.4	Calm	0.4	WSW
03:00-04:00	0.4	SE	0.4	NE	<0.4	Calm	<0.4	Calm	<0.4	Calm	0.4	ENE	0.4	ENE
04:00-05:00	0.4	SSE	0.4	ENE	<0.4	Calm	<0.4	Calm	0.4	NNE	0.4	ENE	0.4	NNE
05:00-06:00	0.4	SW	0.9	NE	0.4	SSE	<0.4	Calm	0.4	NNE	1.3	NE	0.4	NNE
06:00-07:00	0.4	SSE	0.4	NE	<0.4	Calm	<0.4	Calm	0.4	NNE	1.8	NE	0.9	NNE
07:00-08:00	0.4	SW	0.4	ENE	0.4	SSE	<0.4	Calm	<0.4	Calm	1.8	NE	0.9	NNE
08:00-09:00	0.4	SSE	0.9	ENE	0.9	ESE	0.4	NNE	0.4	SE	3.6	NE	3.1	NE

Remark : WS = Wind Speed (m/s)
WD = Wind Direction
Height of wind vane and anemometer above ground 10 meters.

(Ms.Piyatida Pradangkho)
Laboratory Reviewer

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(Ms.Panicha Promchai)
Laboratory Supervisor

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Air Quality
Measured Point : **พื้นที่โครงการ (สำนักงานนิคม)**
GPS. Coordinate : UTM (WGS84) 47P 0726887 E, 1443658 N
Measured Date : March 4-11, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-022
Report No. : 2026-RAAF170
Report Date : March 25, 2026

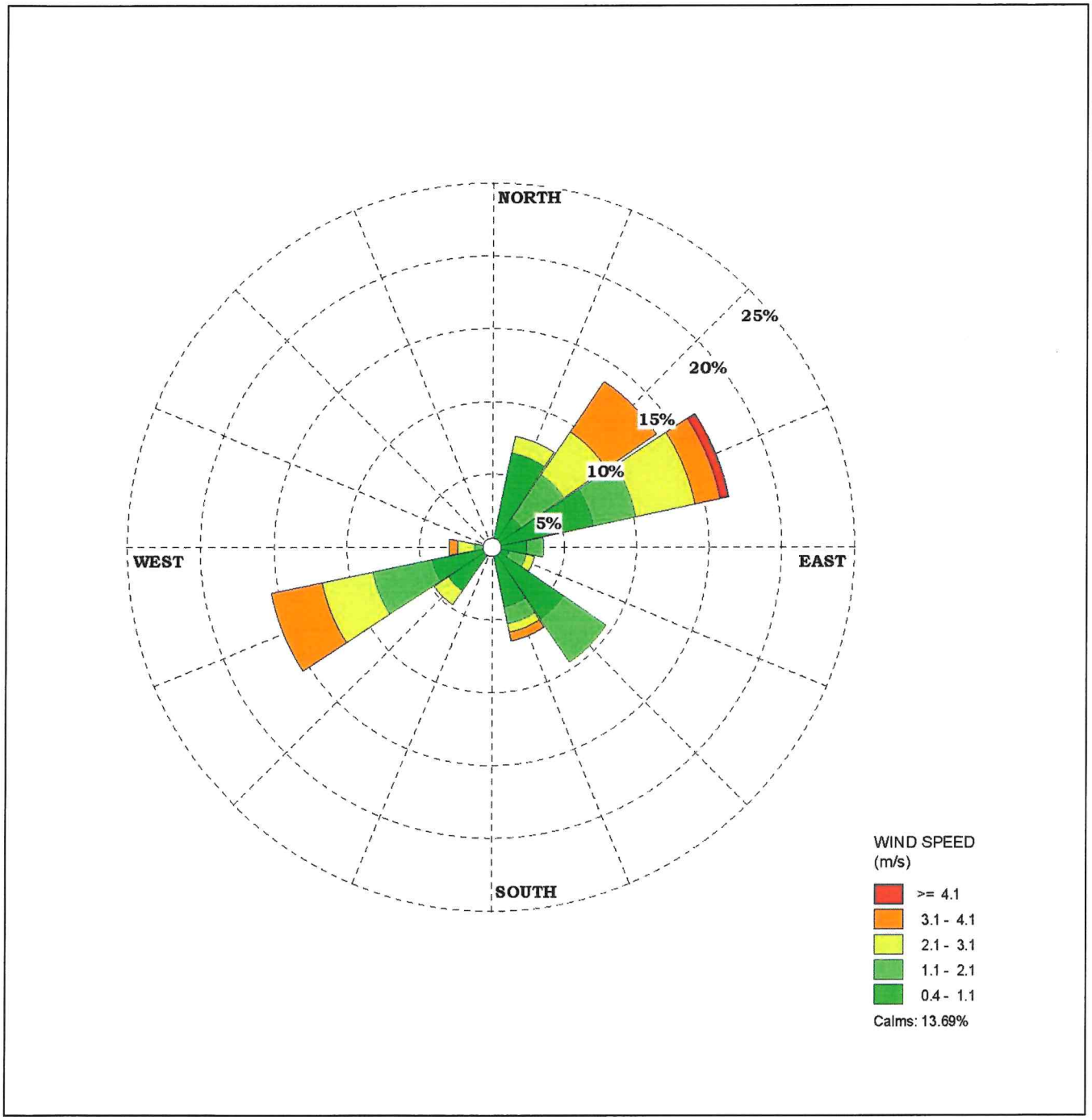
Wind Direction	Percentage frequency of wind in each speed and direction					
	0.4-1.1	**1.1-2.1**	**2.1-3.1**	**3.1-4.1**	**≥4.1**	**Total**
N	0.00000	0.59524	0.00000	0.00000	0.00000	**0.59524**
NNE	6.54762	0.00000	1.19048	0.00000	0.00000	**7.73810**
NE	2.38095	3.57143	3.57143	4.16667	0.00000	**13.69048**
ENE	7.14286	2.97619	4.16667	1.78571	0.59524	**16.66667**
E	2.38095	1.19048	0.00000	0.00000	0.00000	**3.57143**
ESE	1.19048	1.19048	0.59524	0.00000	0.00000	**2.97620**
SE	5.95238	3.57143	0.00000	0.00000	0.00000	**9.52381**
SSE	4.16667	1.19048	0.59524	0.59524	0.00000	**6.54763**
S	0.00000	0.00000	0.00000	0.00000	0.00000	**0.00000**
SSW	0.00000	0.00000	0.00000	0.00000	0.00000	**0.00000**
SW	3.57143	0.00000	1.19048	0.00000	0.00000	**4.76191**
WSW	4.16667	4.16667	3.57143	3.57143	0.00000	**15.47620**
W	0.59524	0.59524	1.19048	0.59524	0.00000	**2.97620**
WNW	0.00000	0.59524	0.00000	0.00000	0.00000	**0.59524**
NW	0.00000	0.00000	0.59524	0.00000	0.00000	**0.59524**
NNW	0.00000	0.00000	0.59524	0.00000	0.00000	**0.59524**
Calm	**13.69050**					

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Point : **พื้นที่โครงการ (สำนักงานนิคม)**
Measured Date : March 4-11, 2026
Report No. : 2026-RAAF170



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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : ปล่องระบายอากาศของโรงหลอม
GPS. Coordinate : UTM (WGS84) 47P 0726478 E, 1443801 N
Sampling Date : March 5, 2026
Sampling Time : 13:30-14:50
Sampling Method : US.EPA. Method 1-4, 5, 6C, 7E, 10
Sampling By : Mr.Thanakorn Ariyapongsopon, Registration No. ว-099-จ-0038
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AA902-001
Received Date : March 6, 2026
Analytical Date : March 6-13, 2026
Report No. : 2026-RAAE069
Report Date : March 26, 2026

Item	Description	Method of Analysis	Unit	Result	Standard[2']	Standard[3']	Standard[4']
1	Fuel Type	-	-	Electric	-	-	-
2	Combustion System	-	-	Open	-	-	-
3	Stack Height	Measuring Tape	m	35.00	-	-	-
4	Stack Diameter	Measuring Tape	m	4.50	-	-	-
5	Flue Gas Temperature	Thermocouple	°C	85.17	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	747.88	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	20.11	-	-	-
8	Moisture	Condensation Method	%	4.83	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	11.61	-	-	-
10	Volumetric Flow Rate	Calculate	Nm^3/hr	518,265	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	665,126	-	-	-
12	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	ppm	<1.0	800	-	60
13	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	mg/m^3	<2.6	2,096	-	157
14	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	ppm	1.6	200	-	200
15	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	mg/m^3	3.0	376	-	376
16	Total Suspended Particulate [1']	Isokinetic, Gravimetric	mg/m^3	2.8	240	108	320
17	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	ppm	66	-	-	690
18	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	mg/m^3	76	-	-	790

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
[3'] Standards as Defined in the Environmental Impact Assessment Report dated October 6, B.E.2548 (2005)
[4'] Notification of the Ministry of Industry B.E.2549 (2006), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 125D dated December 4, B.E.2549 (2006).

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Laboratory Reviewer No. ว-099-ค-0012

(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : ปล่องระบายอากาศของโรงหลอม
GPS. Coordinate : UTM (WGS84) 47P 0726478 E, 1443801 N
Sampling Date : March 5, 2026
Sampling Time : 13:30-14:50
Sampling Method : US.EPA. Method 1-4, 26, 29
Sampling By : Mr.Thanakorn Ariyapongsopon, Registration No. ว-099-จ-0038
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AA902-001
Received Date : March 6, 2026
Analytical Date : March 6-24, 2026
Report No. : 2026-RAAE070
Report Date : March 26, 2026

Item	Description	Method of Analysis	Unit	Result	Standard[2']	Standard[3']	Standard[4']
1	Fuel Type	-	-	Electric	-	-	-
2	Combustion System	-	-	Open	-	-	-
3	Stack Height	Measuring Tape	m	35.00	-	-	-
4	Stack Diameter	Measuring Tape	m	4.50	-	-	-
5	Flue Gas Temperature	Thermocouple	°C	85.17	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	747.88	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	20.11	-	-	-
8	Moisture	Condensation Method	%	4.83	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	11.61	-	-	-
10	Volumetric Flow Rate	Calculate	Nm^3/hr	518,265	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	665,126	-	-	-
12	Antimony [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	-	-	16
13	Arsenic [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	-	-	16
14	Copper [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	-	-	24
15	Lead [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	-	-	24
16	Mercury [1']	Isokinetic, Digestion, Cold-Vapor Atomic Absorption Spectrometry	mg/m^3	<0.005	-	-	2.4
17	Chlorine [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	2.2	-	-	24
18	Hydrogen Chloride [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	0.37	-	-	160

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
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[4'] Notification of the Ministry of Industry B.E.2549 (2006), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 125D dated December 4, B.E.2549 (2006).

(Ms.Natnicha Sermmatiwong)
Laboratory Reviewer No. ว-099-ค-0012

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(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : **ปล่องระบายอากาศของโรงรีด 1**
GPS. Coordinate : UTM (WGS84) 47P 0726366 E, 1443869 N
Sampling Date : March 5, 2026
Sampling Time : 14:55-16:15
Sampling Method : US.EPA. Method 1-4, 5, 6C, 7E, 10
Sampling By : Mr.Thanakorn Ariyapongsopon, Registration No. ว-099-จ-0038
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AA902-002
Received Date : March 6, 2026
Analytical Date : March 6-13, 2026
Report No. : 2026-RAAE071
Report Date : March 26, 2026

Item	Description	Method of Analysis	Unit	Result		Standard[2']	Standard[3']	Standard[4']
				Actual Condition	Convert to Excess Oxygen 7%			
1	Fuel Type	-	-	Natural Gas		-	-	-
2	Combustion System	-	-	Close		-	-	-
3	Stack Height	Measuring Tape	m	25.00		-	-	-
4	Stack Diameter	Measuring Tape	m	1.90		-	-	-
5	Flue Gas Temperature	Thermocouple	°C	245.25	-	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	748.30	-	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	7.85	-	-	-	-
8	Moisture	Condensation Method	%	6.14	-	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	10.77	-	-	-	-
10	Volumetric Flow Rate [1']	Calculate	Nm^3/hr	58,433	-	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	109,955	-	-	-	-
12	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	ppm	3.6	3.8	800	60	60
13	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	mg/m^3	9.5	10	2,096	157	157
14	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	ppm	13	14	200	180	200
15	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	mg/m^3	24	26	376	339	376
16	Total Suspended Particulate [1']	Isokinetic, Gravimetric	mg/m^3	4.5	4.8	240	216	320
17	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	ppm	46	49	-	-	690
18	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	mg/m^3	53	56	-	-	790

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
[3'] Standards as Defined in the Environmental Impact Assessment Report dated October 6, B.E.2548 (2005)
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(Ms.Ramita Taengthai) — Laboratory Supervisor No. ว-099-ค-0010

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : **ปล่องระบายอากาศของโรงรีด 1**
GPS. Coordinate : UTM (WGS84) 47P 0726366 E, 1443869 N
Sampling Date : March 5, 2026
Sampling Time : 14:55-16:15
Sampling Method : US.EPA. Method 1-4, 26, 29
Sampling By : Mr.Thanakorn Ariyapongsopon, Registration No. ว-099-จ-0038
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AA902-002
Received Date : March 6, 2026
Analytical Date : March 6-24, 2026
Report No. : 2026-RAAE072
Report Date : March 26, 2026

Item	Description	Method of Analysis	Unit	Result		Standard[2']	Standard[3']	Standard[4']
				Actual Condition	Convert to Excess Oxygen 7%			
1	Fuel Type	-	-	Natural Gas		-	-	-
2	Combustion System	-	-	Close		-	-	-
3	Stack Height	Measuring Tape	m	25.00		-	-	-
4	Stack Diameter	Measuring Tape	m	1.90		-	-	-
5	Flue Gas Temperature	Thermocouple	°C	245.25	-	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	748.30	-	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	7.85	-	-	-	-
8	Moisture	Condensation Method	%	6.14	-	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	10.77	-	-	-	-
10	Volumetric Flow Rate [1']	Calculate	Nm^3/hr	58,433	-	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	109,955	-	-	-	-
12	Antimony [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	<0.005	-	-	16
13	Arsenic [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	<0.005	-	-	16
14	Copper [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	0.114	0.121	-	-	24
15	Lead [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	0.023	0.024	-	-	24
16	Mercury [1']	Isokinetic, Digestion, Cold-Vapor Atomic Absorption Spectrometry	mg/m^3	<0.005	<0.005	-	-	2.4
17	Chlorine [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	5.1	5.4	-	-	24
18	Hydrogen Chloride [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	0.71	0.76	-	-	160

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
[3'] Standards as Defined in the Environmental Impact Assessment Report dated October 6, B.E.2548 (2005)
[4'] Notification of the Ministry of Industry B.E.2549 (2006), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 125D dated December 4, B.E.2549 (2006).

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Laboratory Reviewer No. ว-099-ค-0012

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(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : **ปล่องระบายอากาศของโรงรีด 2**
GPS. Coordinate : UTM (WGS84) 47P 0726239 E, 1443865 N
Sampling Date : March 19, 2026
Sampling Time : 14:25-15:36
Sampling Method : US.EPA. Method 1-4, 5, 6C, 7E, 10
Sampling By : Mr.Wanchana Seehamart, Registration No. ว-099-ค-0004
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AB231-001
Received Date : March 23, 2026
Analytical Date : March 23-April 4, 2026
Report No. : 2026-RAAF597
Report Date : April 8, 2026

Item	Description	Method of Analysis	Unit	Result		Standard[2']	Standard[3']	Standard[4']
				Actual Condition	Convert to Excess Oxygen 7%			
1	Fuel Type	-	-	Natural Gas		-	-	-
2	Combustion System	-	-	Close		-	-	-
3	Stack Height	Measuring Tape	m	65.00		-	-	-
4	Stack Diameter	Measuring Tape	m	2.30		-	-	-
5	Flue Gas Temperature	Thermocouple	°C	267.92	-	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	745.29	-	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	8.94	-	-	-	-
8	Moisture	Condensation Method	%	5.07	-	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	7.11	-	-	-	-
10	Volumetric Flow Rate [1']	Calculate	Nm^3/hr	54,594	-	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	106,456	-	-	-	-
12	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	ppm	<1.0	<1.0	800	60	60
13	Sulfur Dioxide (SO_2) [1']	Instrumental Analyzer Method	mg/m^3	<2.6	<2.6	2,096	157	157
14	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	ppm	33	38	200	162	200
15	Oxide of Nitrogen (NOx) [1']	Instrumental Analyzer Method	mg/m^3	62	72	376	305	376
16	Total Suspended Particulate [1']	Isokinetic, Gravimetric	mg/m^3	1.4	1.6	240	108	320
17	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	ppm	<1.0	<1.0	-	-	690
18	Carbon Monoxide (CO) [1']	Instrumental Analyzer Method	mg/m^3	<1.1	<1.1	-	-	790

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
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(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Stack Air Quality
Sampling Point : **ปล่องระบายอากาศของโรงรีด 2**
GPS. Coordinate : UTM (WGS84) 47P 0726239 E, 1443865 N
Sampling Date : March 19, 2026
Sampling Time : 14:25-15:36
Sampling Method : US.EPA. Method 1-4, 26, 29
Sampling By : Mr.Wanchana Seehamart, Registration No. ว-099-ค-0004
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099

Quotation No. : MR2026-00144
Analysis No. : 2026-AB231-001
Received Date : March 23, 2026
Analytical Date : March 23-April 6, 2026
Report No. : 2026-RAAF598
Report Date : April 8, 2026

Item	Description	Method of Analysis	Unit	Result		Standard[2']	Standard[3']	Standard[4']
				Actual Condition	Convert to Excess Oxygen 7%			
1	Fuel Type	-	-	Natural Gas		-	-	-
2	Combustion System	-	-	Close		-	-	-
3	Stack Height	Measuring Tape	m	65.00		-	-	-
4	Stack Diameter	Measuring Tape	m	2.30		-	-	-
5	Flue Gas Temperature	Thermocouple	°C	267.92	-	-	-	-
6	Pressure in Stack	Incline Manometer	mmHg	745.29	-	-	-	-
7	Oxygen Rate	Electrochemical Sensor	%	8.94	-	-	-	-
8	Moisture	Condensation Method	%	5.07	-	-	-	-
9	Air Velocity	Type S Pitot Tube	m/s	7.11	-	-	-	-
10	Volumetric Flow Rate [1']	Calculate	Nm^3/hr	54,594	-	-	-	-
11	Volumetric Flow Rate	Calculate	m^3/hr	106,456	-	-	-	-
12	Antimony [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	<0.005	-	-	16
13	Arsenic [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	<0.005	-	-	16
14	Copper [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	0.035	0.041	-	-	24
15	Lead [1']	Isokinetic, Digestion, Inductively Coupled Plasma (ICP-OES)	mg/m^3	<0.005	<0.005	-	-	24
16	Mercury [1']	Isokinetic, Digestion, Cold-Vapor Atomic Absorption Spectrometry	mg/m^3	<0.005	<0.005	-	-	2.4
17	Chlorine [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	1.5	1.7	-	-	24
18	Hydrogen Chloride [1']	Absorption, Ion Chromatography, Conductivity Detection	mg/m^3	0.92	1.1	-	-	160

Remark :
[1'] Reference condition is 25 degree Celsius at 1 Atmosphere and Dry Basis.
[2'] Notification of the Ministry of Science Technology and Environment dated March 9, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118 Part 37D dated May 8, B.E.2544 (2001). (Existing Source)
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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Surface Water Sampling
Sampling Point : อ่างเก็บน้ำของบริษัท
GPS. Coordinate : UTM (WGS84) 47P 0725689 E, 1443940 N

Sampling Date : March 5, 2026
Sampling Time : 11:07
Sampling Method : Grab
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Physical Properties : Clear, Light Yellow, Sediment, Odor

Quotation No. : MR2026-00144
Analysis No. : 2026-AA901-001
Received Date : March 6, 2026
Analytical Date : March 6-11, 2026
Report No. : 2026-RAAE403
Report Date : March 16, 2026

Parameter	Unit	Method of Analysis[1']	Result	Standard[2']
pH	-	Electrometric	8.3	5.0-9.0
Dissolved Oxygen	mg/L	Membrane Electrode	7.1	≥2.0
Fat Oil and Grease	mg/L	Liquid-Liquid Partition, Gravimetric	<1.0	-
Total Dissolved Solids	mg/L	Dried at 180°C	464	-
Total Suspended Solids	mg/L	Dried at 103-105°C	<5.0	-

Remark : 1' Standard Method for Examination of Water and Wastewater, 24th Edition, 2023.
2' Notification of the National Environment Board, No.8, B.E.2537 (1994), issued under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No.111 Part 16, dated February 24, B.E.2537 (1994). (Standard Value of Surface Water for Class 4)

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Surface Water Sampling
Sampling Point : อ่างเก็บน้ำของบริษัท
GPS. Coordinate : UTM (WGS84) 47P 0725695 E, 1443936 N
Sampling Date : June 30, 2026
Sampling Time : 14:11
Sampling Method : Grab
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Physical Properties : Clear, Light Yellow, Sediment, Odor

Quotation No. : MR2026-00144
Analysis No. : 2026-AD716-001
Received Date : July 2, 2026
Analytical Date : July 2-10, 2026
Report No. : 2026-RAAQ941
Report Date : July 11, 2026

Parameter	Unit	Method of Analysis[1']	Result	Standard[2']
pH	-	Electrometric	7.7	5.0-9.0
Dissolved Oxygen	mg/L	Membrane Electrode	7.0	≥2.0
Fat Oil and Grease	mg/L	Liquid-Liquid Partition, Gravimetric	1.3	-
Total Dissolved Solids	mg/L	Dried at 180°C	379	-
Total Suspended Solids	mg/L	Dried at 103-105°C	5.1	-

Remark : 1' Standard Method for Examination of Water and Wastewater, 24th Edition, 2023.
2' Notification of the National Environment Board, No.8, B.E.2537 (1994), issued under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No.111 Part 16, dated February 24, B.E.2537 (1994). (Standard Value of Surface Water for Class 4)

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : ริมรั้วโรงงานด้านทิศใต้
GPS. Coordinate : UTM (WGS84) 47P 0725718 E, 1443544 N
Measured Date : March 5-6, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820965

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-029
Report No. : 2026-RAAF171
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	54.1	71.4	52.3
12:00-13:00	53.1	62.4	51.9
13:00-14:00	53.7	67.2	52.5
14:00-15:00	54.1	68.3	52.8
15:00-16:00	53.9	73.0	52.5
16:00-17:00	53.8	63.0	52.8
17:00-18:00	53.9	75.3	52.9
18:00-19:00	55.0	69.7	53.5
19:00-20:00	54.8	62.8	53.6
20:00-21:00	54.6	71.2	53.4
21:00-22:00	55.1	65.8	53.7
22:00-23:00	55.6	76.1	53.9
23:00-00:00	55.4	63.9	53.9
00:00-01:00	54.6	63.8	53.4
01:00-02:00	55.5	70.1	53.9
02:00-03:00	55.3	63.3	53.7
03:00-04:00	54.4	63.0	53.0
04:00-05:00	54.3	62.3	52.9
05:00-06:00	54.7	64.7	53.2
06:00-07:00	55.5	67.0	54.2
07:00-08:00	54.9	73.6	53.4
08:00-09:00	53.9	65.9	52.9
09:00-10:00	55.6	77.0	52.7
10:00-11:00	53.6	68.2	52.0
24 Hours Measurement	**54.6**	**77.0**	**52.4**
Standard[1']	**70**	**115**	-
Ldn	**61.4**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : **ริมรั้วโรงงานด้านทิศใต้**
GPS. Coordinate : UTM (WGS84) 47P 0725718 E, 1443544 N
Measured Date : March 6-7, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820965

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-029
Report No. : 2026-RAAF171
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	54.3	76.4	51.2
12:00-13:00	52.3	74.3	51.3
13:00-14:00	53.0	70.4	51.4
14:00-15:00	52.8	69.7	51.3
15:00-16:00	52.6	68.1	51.0
16:00-17:00	52.4	72.1	50.8
17:00-18:00	52.3	65.5	51.2
18:00-19:00	54.6	67.7	52.3
19:00-20:00	54.4	65.7	53.3
20:00-21:00	55.2	62.9	53.0
21:00-22:00	54.6	70.9	53.2
22:00-23:00	54.3	60.3	53.1
23:00-00:00	55.2	64.1	53.6
00:00-01:00	53.9	64.4	52.1
01:00-02:00	53.6	59.6	52.2
02:00-03:00	54.4	60.0	52.7
03:00-04:00	54.5	66.4	53.0
04:00-05:00	54.3	70.0	53.0
05:00-06:00	55.1	65.6	53.6
06:00-07:00	56.5	67.5	55.2
07:00-08:00	54.8	66.7	52.3
08:00-09:00	49.5	61.5	46.4
09:00-10:00	50.9	72.6	47.0
10:00-11:00	52.9	70.6	49.7
24 Hours Measurement	**53.9**	**76.4**	**50.0**
Standard[1']	**70**	**115**	-
Ldn	**61.0**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : ริมรั้วโรงงานด้านทิศใต้
GPS. Coordinate : UTM (WGS84) 47P 0725718 E, 1443544 N
Measured Date : March 7-8, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820965

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-029
Report No. : 2026-RAAF171
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	50.4	69.4	46.8
12:00-13:00	48.5	70.6	44.9
13:00-14:00	50.1	62.8	46.8
14:00-15:00	49.7	72.5	46.4
15:00-16:00	48.9	71.7	45.0
16:00-17:00	50.8	70.6	45.4
17:00-18:00	54.7	75.1	45.2
18:00-19:00	55.1	76.8	49.8
19:00-20:00	51.3	64.8	48.8
20:00-21:00	51.7	65.8	48.6
21:00-22:00	51.4	63.0	48.0
22:00-23:00	51.5	71.0	46.8
23:00-00:00	49.3	63.0	46.0
00:00-01:00	49.0	60.6	45.1
01:00-02:00	51.0	61.4	47.3
02:00-03:00	50.8	59.3	48.0
03:00-04:00	50.2	65.1	46.4
04:00-05:00	47.0	62.8	44.9
05:00-06:00	51.3	69.1	46.1
06:00-07:00	51.0	73.4	47.1
07:00-08:00	49.1	64.3	44.1
08:00-09:00	50.1	70.6	43.8
09:00-10:00	51.2	66.2	45.4
10:00-11:00	56.2	71.1	53.7
24 Hours Measurement	**51.4**	**76.8**	**44.9**
Standard[1']	**70**	**115**	**-**
Ldn	**57.0**	**-**	**-**

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

(Ms.Supawan Suwannapa)
Laboratory Reviewer

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(Ms.Thanida Bunrungrueang)
Laboratory Supervisor

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : **ริมรั้วโรงงานด้านทิศตะวันตก**
GPS. Coordinate : UTM (WGS84) 47P 0725955 E, 1444064 N
Measured Date : March 5-6, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820859

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-030
Report No. : 2026-RAAF172
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	52.8	73.4	46.0
12:00-13:00	49.5	70.0	44.8
13:00-14:00	50.2	73.6	46.6
14:00-15:00	50.6	70.3	47.2
15:00-16:00	50.2	71.2	46.5
16:00-17:00	50.1	73.0	46.8
17:00-18:00	51.3	72.1	47.7
18:00-19:00	53.6	74.7	48.4
19:00-20:00	51.3	68.5	50.1
20:00-21:00	52.5	74.2	49.6
21:00-22:00	52.4	73.5	50.5
22:00-23:00	52.2	72.9	50.9
23:00-00:00	52.0	63.0	51.0
00:00-01:00	53.1	70.8	51.5
01:00-02:00	52.5	58.4	51.5
02:00-03:00	51.3	63.4	50.4
03:00-04:00	52.1	66.3	50.7
04:00-05:00	53.0	61.8	52.2
05:00-06:00	53.4	62.0	52.5
06:00-07:00	55.5	70.8	52.4
07:00-08:00	53.8	68.7	52.3
08:00-09:00	52.5	73.0	50.1
09:00-10:00	51.0	66.2	48.8
10:00-11:00	51.5	74.5	47.8
24 Hours Measurement	**52.2**	**74.7**	**46.5**
Standard[1']	**70**	**115**	**-**
Ldn	**59.2**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : **ริมรั้วโรงงานด้านทิศตะวันตก**
GPS. Coordinate : UTM (WGS84) 47P 0725955 E, 1444064 N
Measured Date : March 6-7, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820859

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-030
Report No. : 2026-RAAF172
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	50.1	72.0	46.1
12:00-13:00	48.8	68.0	45.2
13:00-14:00	50.5	70.3	47.1
14:00-15:00	50.2	67.9	47.0
15:00-16:00	51.0	73.0	46.5
16:00-17:00	52.7	74.0	46.9
17:00-18:00	50.5	72.3	47.1
18:00-19:00	53.8	73.0	48.9
19:00-20:00	52.0	71.6	49.9
20:00-21:00	52.8	74.0	50.7
21:00-22:00	52.3	65.8	50.8
22:00-23:00	52.0	58.7	50.8
23:00-00:00	52.3	67.0	50.9
00:00-01:00	51.5	64.0	50.4
01:00-02:00	54.9	64.7	53.8
02:00-03:00	55.3	66.2	54.4
03:00-04:00	56.1	74.4	54.3
04:00-05:00	55.1	71.8	53.9
05:00-06:00	57.4	73.4	55.6
06:00-07:00	58.0	73.8	56.1
07:00-08:00	55.0	75.8	50.7
08:00-09:00	51.5	73.8	48.1
09:00-10:00	53.5	76.3	49.0
10:00-11:00	53.5	73.5	50.5
24 Hours Measurement	**53.6**	**76.3**	**46.6**
Standard[1']	**70**	**115**	-
Ldn	**61.4**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : **ริมรั้วโรงงานด้านทิศตะวันตก**
GPS. Coordinate : UTM (WGS84) 47P 0725955 E, 1444064 N
Measured Date : March 7-8, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820859

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-030
Report No. : 2026-RAAF172
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
11:00-12:00	52.3	73.5	49.0
12:00-13:00	50.3	71.0	47.8
13:00-14:00	51.0	70.3	47.6
14:00-15:00	49.8	67.8	47.1
15:00-16:00	51.3	69.3	47.5
16:00-17:00	50.4	69.8	47.1
17:00-18:00	52.5	70.9	47.8
18:00-19:00	55.7	73.4	50.2
19:00-20:00	51.4	69.2	49.9
20:00-21:00	51.2	63.2	49.7
21:00-22:00	51.5	62.1	49.2
22:00-23:00	51.0	62.7	49.4
23:00-00:00	50.5	57.8	49.2
00:00-01:00	50.7	59.2	49.6
01:00-02:00	50.3	58.4	49.3
02:00-03:00	51.0	59.5	50.0
03:00-04:00	52.0	65.4	50.3
04:00-05:00	50.7	60.7	49.7
05:00-06:00	51.3	64.1	49.6
06:00-07:00	53.7	68.4	50.8
07:00-08:00	51.2	64.7	48.3
08:00-09:00	49.1	63.4	47.0
09:00-10:00	48.2	64.5	45.5
10:00-11:00	51.7	67.5	49.4
24 Hours Measurement	**51.5**	**73.5**	**47.1**
Standard[1]	**70**	**115**	-
Ldn	**57.8**	-	-

Remark : [1] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : หน้าอาคารสำนักงาน
GPS. Coordinate : UTM (WGS84) 47P 0726697 E, 1443434 N
Measured Date : March 5-6, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820932

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-031
Report No. : 2026-RAAF173
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
09:00-10:00	63.5	79.1	60.9
10:00-11:00	63.0	83.0	59.8
11:00-12:00	61.9	74.9	59.1
12:00-13:00	62.0	70.2	59.4
13:00-14:00	62.9	78.3	60.0
14:00-15:00	63.0	77.5	60.3
15:00-16:00	63.5	74.3	61.5
16:00-17:00	63.8	74.6	61.7
17:00-18:00	64.7	82.5	62.6
18:00-19:00	65.4	82.1	62.5
19:00-20:00	64.2	82.0	61.3
20:00-21:00	63.5	74.8	60.7
21:00-22:00	62.0	71.6	58.9
22:00-23:00	61.0	77.0	56.4
23:00-00:00	59.1	78.4	52.2
00:00-01:00	57.3	76.2	49.1
01:00-02:00	57.0	77.0	47.3
02:00-03:00	57.3	74.5	48.3
03:00-04:00	57.0	77.4	48.1
04:00-05:00	58.7	76.6	50.9
05:00-06:00	62.2	72.4	57.3
06:00-07:00	65.5	77.9	63.2
07:00-08:00	65.8	79.1	63.5
08:00-09:00	64.3	80.0	61.7
24 Hours Measurement	**62.8**	**83.0**	**48.5**
Standard[1']	**70**	**115**	-
Ldn	**67.5**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : หน้าอาคารสำนักงาน
GPS. Coordinate : UTM (WGS84) 47P 0726697 E, 1443434 N
Measured Date : March 6-7, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820932

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-031
Report No. : 2026-RAAF173
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
09:00-10:00	64.4	86.4	61.4
10:00-11:00	63.7	84.7	61.0
11:00-12:00	62.9	71.1	60.4
12:00-13:00	62.6	81.5	59.7
13:00-14:00	61.9	73.6	59.2
14:00-15:00	62.1	78.0	59.1
15:00-16:00	62.8	76.0	60.4
16:00-17:00	63.3	81.5	60.8
17:00-18:00	63.8	75.7	61.4
18:00-19:00	64.7	78.4	62.2
19:00-20:00	64.1	83.5	61.0
20:00-21:00	63.9	75.7	61.4
21:00-22:00	62.8	76.3	59.9
22:00-23:00	61.6	80.7	56.4
23:00-00:00	62.1	80.1	54.3
00:00-01:00	61.3	78.2	51.9
01:00-02:00	58.1	75.3	49.2
02:00-03:00	56.8	77.3	47.9
03:00-04:00	56.9	70.1	48.8
04:00-05:00	58.4	75.0	51.6
05:00-06:00	61.9	74.5	56.8
06:00-07:00	65.7	77.6	62.6
07:00-08:00	65.9	78.1	63.0
08:00-09:00	63.9	74.4	61.1
24 Hours Measurement	**62.9**	**86.4**	**49.9**
Standard[1']	**70**	**115**	**-**
Ldn	**68.1**	**-**	**-**

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : หน้าอาคารสำนักงาน
GPS. Coordinate : UTM (WGS84) 47P 0726697 E, 1443434 N
Measured Date : March 7-8, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820932

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-031
Report No. : 2026-RAAF173
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
09:00-10:00	63.5	73.4	61.0
10:00-11:00	63.9	76.4	61.2
11:00-12:00	64.0	74.0	60.6
12:00-13:00	63.0	79.4	60.0
13:00-14:00	64.8	78.4	62.0
14:00-15:00	65.1	83.2	61.5
15:00-16:00	64.3	78.3	60.7
16:00-17:00	63.3	77.9	60.6
17:00-18:00	66.7	80.0	62.6
18:00-19:00	64.4	78.8	62.3
19:00-20:00	65.0	79.3	62.0
20:00-21:00	64.1	79.3	60.9
21:00-22:00	63.0	78.2	59.4
22:00-23:00	62.4	76.0	58.5
23:00-00:00	63.1	82.5	58.2
00:00-01:00	61.4	77.4	55.8
01:00-02:00	61.2	79.6	53.0
02:00-03:00	57.5	74.2	47.8
03:00-04:00	57.2	69.5	50.6
04:00-05:00	58.6	71.2	51.8
05:00-06:00	61.3	74.3	56.1
06:00-07:00	63.5	77.3	60.3
07:00-08:00	63.9	76.6	61.0
08:00-09:00	63.8	75.1	60.4
24 Hours Measurement	**63.4**	**83.2**	**52.2**
Standard[1']	**70**	**115**	**-**
Ldn	**68.2**	**-**	**-**

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727624 E, 1444337 N
Measured Date : March 5-6, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820868

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-032
Report No. : 2026-RAAF174
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
08:00-09:00	67.3	83.6	61.5
09:00-10:00	66.9	84.1	59.8
10:00-11:00	66.3	80.4	59.1
11:00-12:00	68.5	81.3	60.7
12:00-13:00	63.5	82.6	59.0
13:00-14:00	68.5	81.0	59.5
14:00-15:00	64.6	84.5	60.1
15:00-16:00	65.7	80.0	60.8
16:00-17:00	65.0	81.4	60.0
17:00-18:00	63.9	80.5	60.2
18:00-19:00	66.9	83.5	60.5
19:00-20:00	73.5	85.7	63.0
20:00-21:00	74.3	87.8	62.8
21:00-22:00	73.4	84.8	61.4
22:00-23:00	69.1	83.7	53.5
23:00-00:00	58.1	81.2	51.0
00:00-01:00	59.1	80.8	48.3
01:00-02:00	54.1	71.3	44.4
02:00-03:00	54.5	73.0	42.5
03:00-04:00	53.6	70.5	43.8
04:00-05:00	55.7	77.5	45.2
05:00-06:00	57.1	75.8	49.1
06:00-07:00	61.2	81.5	54.5
07:00-08:00	65.4	85.3	60.2
24 Hours Measurement	**67.5**	**87.8**	**44.6**
Standard[1']	**70**	**115**	**-**
Ldn	**70.1**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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(Ms.Supawan Suwannapa)
Laboratory Reviewer

(Ms.Thanida Bunrungrueang)
Laboratory Supervisor

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727624 E, 1444337 N
Measured Date : March 6-7, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820868

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-032
Report No. : 2026-RAAF174
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
08:00-09:00	63.6	83.7	59.6
09:00-10:00	65.5	85.3	59.7
10:00-11:00	61.4	76.5	57.8
11:00-12:00	62.9	81.3	58.4
12:00-13:00	64.0	83.1	58.5
13:00-14:00	62.2	77.9	58.7
14:00-15:00	62.6	78.1	59.2
15:00-16:00	62.0	77.3	59.0
16:00-17:00	63.1	85.9	59.2
17:00-18:00	64.3	81.0	60.7
18:00-19:00	63.8	81.3	59.6
19:00-20:00	63.0	83.0	57.9
20:00-21:00	62.8	76.9	58.0
21:00-22:00	62.2	83.4	55.4
22:00-23:00	59.1	82.0	52.8
23:00-00:00	60.7	85.9	51.5
00:00-01:00	58.2	82.3	47.3
01:00-02:00	58.4	83.2	46.8
02:00-03:00	57.4	82.8	44.5
03:00-04:00	53.2	74.3	44.0
04:00-05:00	56.3	82.8	45.7
05:00-06:00	60.2	83.1	48.8
06:00-07:00	61.6	83.4	53.8
07:00-08:00	64.4	86.3	58.9
24 Hours Measurement	**62.1**	**86.3**	**46.0**
Standard[1']	**70**	**115**	**-**
Ldn	**66.3**	**-**	**-**

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

(Ms.Supawan Suwannapa) Laboratory Reviewer

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(Ms.Thanida Bunrungrueang) Laboratory Supervisor

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Ambient Noise
Measured Point : โรงเรียนบ้านเขาหิน (นิกรราษฎร์บำรุง) ตำบลบ่อวิน อำเภอศรีราชา จังหวัดชลบุรี (เดิมชื่อโรงเรียนบ้านเขาหินนิคมราษฎร์บำรุง)
GPS. Coordinate : UTM (WGS84) 47P 0727624 E, 1444337 N
Measured Date : March 7-8, 2026
Measured By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter Scarlet Tech Model ST-11D Serial Number 820868

Quotation No. : MR2026-00144
Analysis No. : 2026-AB046-032
Report No. : 2026-RAAF174
Report Date : March 25, 2026

Interval Time	Noise Level, dB(A)		
	Leq	Lmax	L90
08:00-09:00	63.4	85.0	59.1
09:00-10:00	62.4	83.7	58.0
10:00-11:00	61.9	85.2	57.3
11:00-12:00	60.9	75.8	57.4
12:00-13:00	61.7	78.1	57.4
13:00-14:00	61.0	78.7	57.2
14:00-15:00	61.2	77.4	57.5
15:00-16:00	62.4	81.1	58.8
16:00-17:00	63.2	83.2	59.4
17:00-18:00	63.7	79.6	59.8
18:00-19:00	63.6	83.3	59.8
19:00-20:00	63.8	82.5	59.3
20:00-21:00	63.3	81.4	58.6
21:00-22:00	63.2	83.3	56.8
22:00-23:00	60.4	80.2	52.8
23:00-00:00	59.3	81.4	51.6
00:00-01:00	59.4	81.2	51.1
01:00-02:00	60.0	82.3	49.4
02:00-03:00	59.6	84.9	48.0
03:00-04:00	55.0	74.6	46.9
04:00-05:00	56.0	80.3	47.3
05:00-06:00	56.7	71.0	49.9
06:00-07:00	60.7	79.4	53.6
07:00-08:00	62.5	82.7	57.1
24 Hours Measurement	**61.6**	**85.2**	**48.4**
Standard[1']	**70**	**115**	-
Ldn	**66.1**	-	-

Remark : [1'] Notification of the Ministry of Industry B.E.2548 (2005), issued under Factory Act B.E.2535 (1992), published in the Royal Government Gazette No.123 Special Part 11D dated January 25, B.E.2549 (2006).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 1**
GPS. Coordinate : UTM (WGS84) 47P 0726013 E, 1443470 N
Sampling Date : March 5, 2026
Sampling Time : 09:31
Sampling Method : Grab
Sampling By : Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099
Physical Properties : -

Quotation No. : MR2026-00144
Analysis No. : 2026-AA900-001
Received Date : March 6, 2026
Analytical Date : March 6-13, 2026
Report No. : 2026-RAAE397
Report Date : March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1'] (TTLC)
Arsenic	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	3.5	500
Cadmium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	1.3	100
Chromium Hexavalent	mg/kg ; wet weight	Digestion, Colorimetric	<0.2	500
Chromium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	651	2,500
Chromium Trivalent	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)/Digestion, Colorimetric/Calculation	651	2,500
Lead	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	3.2	1,000
Mercury	mg/kg ; wet weight	Digestion, Cold-Vapor Atomic Absorption Spectrometry	<0.1	20
Zinc	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	52	5,000

Remark : [1'] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

(Ms.Raiwin Posit)
Laboratory Reviewer No. ว-099-ค-0011

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(Ms.Ramita Taengthai)
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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 2**
GPS. Coordinate : UTM (WGS84) 47P 0725991 E, 1443470 N

Sampling Date	: March 5, 2026	**Quotation No.**	: MR2026-00144
Sampling Time	: 09:33	**Analysis No.**	: 2026-AA900-002
Sampling Method	: Grab	**Received Date**	: March 6, 2026
Sampling By	: Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015	**Analytical Date**	: March 6-13, 2026
Analyzed By	: Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099	**Report No.**	: 2026-RAAE398
Physical Properties	: -	**Report Date**	: March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1'] (TTLC)
Arsenic	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	<1.0	500
Cadmium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	2.0	100
Chromium Hexavalent	mg/kg ; wet weight	Digestion, Colorimetric	<0.2	500
Chromium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	664	2,500
Chromium Trivalent	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)/Digestion, Colorimetric/Calculation	664	2,500
Lead	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	5.4	1,000
Mercury	mg/kg ; wet weight	Digestion, Cold-Vapor Atomic Absorption Spectrometry	<0.1	20
Zinc	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	116	5,000

Remark : [1'] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

(Ms.Raiwin Posit)
Laboratory Reviewer No. ว-099-ค-0011

(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 3**
GPS. Coordinate : UTM (WGS84) 47P 0725971 E, 1443463 N

Sampling Date	: March 5, 2026	**Quotation No.**	: MR2026-00144
Sampling Time	: 09:35	**Analysis No.**	: 2026-AA900-003
Sampling Method	: Grab	**Received Date**	: March 6, 2026
Sampling By	: Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015	**Analytical Date**	: March 6-13, 2026
Analyzed By	: Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099	**Report No.**	: 2026-RAAE399
Physical Properties	: -	**Report Date**	: March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1'] (TTLC)
Arsenic	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	<1.0	500
Cadmium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	1.1	100
Chromium Hexavalent	mg/kg ; wet weight	Digestion, Colorimetric	0.9	500
Chromium	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	665	2,500
Chromium Trivalent	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)/Digestion, Colorimetric/Calculation	664	2,500
Lead	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	2.6	1,000
Mercury	mg/kg ; wet weight	Digestion, Cold-Vapor Atomic Absorption Spectrometry	<0.1	20
Zinc	mg/kg ; wet weight	Digestion, Inductively Coupled Plasma (ICP-OES)	68	5,000

Remark : [1'] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

(Ms.Raiwin Posit)
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Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 1**
GPS. Coordinate : UTM (WGS84) 47P 0726013 E, 1443470 N

Sampling Date	: March 5, 2026	**Quotation No.**	: MR2026-00144
Sampling Time	: 09:31	**Analysis No.**	: 2026-AA900-004
Sampling Method	: Grab	**Received Date**	: March 6, 2026
Sampling By	: Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015	**Analytical Date**	: March 6-24, 2026
Analyzed By	: Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099	**Report No.**	: 2026-RAAE400
Physical Properties	: -	**Report Date**	: March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1/] (STLC)
Arsenic	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.63	5.0
Cadmium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.01	1.0
Chromium Hexavalent	mg/L	Waste Extracion, Colorimetric	<0.01	5
Chromium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	1.5	5
Chromium Trivalent	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma /Waste Extraction, Colorimetric/Calculation	1.5	5
Lead	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.05	5.0
Mercury	mg/L	Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric	<0.001	0.2
Zinc	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.15	250

Remark : [1/] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

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Laboratory Reviewer No. ว-099-ค-0011

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 2**
GPS. Coordinate : UTM (WGS84) 47P 0725991 E, 1443470 N
Sampling Date : March 5, 2026
Sampling Time : 09:33
Sampling Method : Grab
Sampling By : Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099
Physical Properties : -

Quotation No. : MR2026-00144
Analysis No. : 2026-AA900-005
Received Date : March 6, 2026
Analytical Date : March 6-24, 2026
Report No. : 2026-RAAE401
Report Date : March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1'] (STLC)
Arsenic	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.05	5.0
Cadmium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.01	1.0
Chromium Hexavalent	mg/L	Waste Extracion, Colorimetric	<0.01	5
Chromium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	1.6	5
Chromium Trivalent	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma /Waste Extraction, Colorimetric/Calculation	1.6	5
Lead	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.05	5.0
Mercury	mg/L	Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric	<0.001	0.2
Zinc	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.20	250

Remark : [1'] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Solid Waste Sampling
Sampling Point : **กอง Slag ที่ 3**
GPS. Coordinate : UTM (WGS84) 47P 0725971 E, 1443463 N
Sampling Date : March 5, 2026
Sampling Time : 09:35
Sampling Method : Grab
Sampling By : Mr.Akarawat Kochobog, Registration No.ว-099-จ-0015
Analyzed By : Environment Research & Technology Co., Ltd. Laboratory Registration No.ว-099
Physical Properties : -

Quotation No. : MR2026-00144
Analysis No. : 2026-AA900-006
Received Date : March 6, 2026
Analytical Date : March 6-24, 2026
Report No. : 2026-RAAE402
Report Date : March 26, 2026

Parameter	Unit	Method of Analysis	Result	Standard[1'] (STLC)
Arsenic	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.05	5.0
Cadmium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.01	1.0
Chromium Hexavalent	mg/L	Waste Extracion, Colorimetric	<0.01	5
Chromium	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.66	5
Chromium Trivalent	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma /Waste Extraction, Colorimetric/Calculation	0.66	5
Lead	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	<0.05	5.0
Mercury	mg/L	Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric	<0.001	0.2
Zinc	mg/L	Waste Extraction, Digestion, Inductively Coupled Plasma	0.04	250

Remark : [1'] Notification of the Ministry of Industry, B.E.2566 (2023), dated March 16, B.E.2566 (2023) issued under Factory Act B.E.2562 (2022) and B.E.2535 (1992), published in the Royal Government Gazette No.140 Part 126D dated May 31, B.E.2566 (2023).

(Ms.Raiwin Posit)
Laboratory Reviewer No. ว-099-ค-0011

(Ms.Ramita Taengthai)
Laboratory Supervisor No. ว-099-ค-0010

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Work Place Noise
Measured Date : March 19, 2026
Measured By : Mr.Noppasit Taweepornpadit
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter ACO Model 6236 Serial Number 222124

Quotation No. : MR2026-00144
Analysis No. : 2026-AB265-003
Report No. : 2026-RAAF596
Report Date : March 30, 2026

Measured Location/ Employee Name	Interval Time	Equivalent Level; dB(A)	Maximum Level; dB(A)	Standard
ห้องควบคุมของโรงหลอม (คุณนิติ นีระพจน์)	10:31 - 11:31	77.6	97.8	-
	11:31 - 12:31	75.5	91.2	-
	12:31 - 13:31	76.9	89.8	-
	13:31 - 14:31	76.5	92.1	-
	14:31 - 15:31	73.8	93.2	-
	15:31 - 16:31	77.9	97.2	-
	16:31 - 17:31	76.6	92.6	-
	17:31 - 18:31	77.9	88.5	-
	Equivalent Level 8 hrs (Leq 8 hrs)	**76.8**		**-**
	Time Weighted Average (TWA 8 hrs)[1']	**76.7**		**85[2']**
	Maximum Level (Lmax)	**97.8**		**115[3']**

Remark :
1' Calculates the Case of Employees Working in this Area throughout the Work Period.
2' The Announcement of the Department of Labour Protection and Welfare, issued under the Labour Ministerial Regulation, B.E.2559 (2016), published in the Royal Government Gazette Volume 135 Special Part 19D dated January 26, B.E.2561 (2018) and published in the Royal Government Gazette Volume 135 Special Part 57D dated March 12, B.E.2561 (2018).
3' Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

(Ms.Thidarat Pukkha)
Laboratory Reviewer

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Head Office/Tax ID 0105 542 064 981

ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Work Place Noise
Measured Date : March 19, 2026
Measured By : Mr.Noppasit Taweepornpadit
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter ACO Model 6236 Serial Number 222122

Quotation No. : MR2026-00144
Analysis No. : 2026-AB265-002
Report No. : 2026-RAAF595
Report Date : March 30, 2026

Measured Location/ Employee Name	Interval Time	Equivalent Level; dB(A)	Maximum Level; dB(A)	Standard
ห้องควบคุมของโรงรีด 1 (คุณอนุศักดิ์ รับโคสา)	10:16 - 11:16	68.6	80.6	-
	11:16 - 12:16	71.0	89.4	-
	12:16 - 13:16	70.3	85.3	-
	13:16 - 14:16	71.8	88.7	-
	14:16 - 15:16	67.3	80.8	-
	15:16 - 16:16	69.1	85.3	-
	16:16 - 17:16	67.1	76.5	-
	17:16 - 18:16	67.2	77.1	-
	Equivalent Level 8 hrs (Leq 8 hrs)	**69.4**		**-**
	Time Weighted Average (TWA 8 hrs)[1']	**69.3**		**85[2']**
	Maximum Level (Lmax)	**89.4**		**115[3']**

Remark : 1' Calculates the Case of Employees Working in this Area throughout the Work Period.
2' The Announcement of the Department of Labour Protection and Welfare, issued under the Labour Ministerial Regulation, B.E.2559 (2016), published in the Royal Government Gazette Volume 135 Special Part 19D dated January 26, B.E.2561 (2018) and published in the Royal Government Gazette Volume 135 Special Part 57D dated March 12, B.E.2561 (2018).
3' Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source : Work Place Noise
Measured Date : March 19, 2026
Measured By : Mr.Noppasit Taweepornpadit
Analyzed By : Environment Research & Technology Co., Ltd.
Measured Instrument : Integrating Sound Level Meter ACO Model 6236 Serial Number 222123

Quotation No. : MR2026-00144
Analysis No. : 2026-AB265-001
Report No. : 2026-RAAF594
Report Date : March 30, 2026

Measured Location/ Employee Name	Interval Time	Equivalent Level; dB(A)	Maximum Level; dB(A)	Standard
ห้องควบคุมของโรงรีด 2 (คุณภิรมย์ สุขสนตรี)	10:09 - 11:09	72.7	88.2	-
	11:09 - 12:09	69.7	87.1	-
	12:09 - 13:09	63.7	82.2	-
	13:09 - 14:09	65.8	83.1	-
	14:09 - 15:09	66.8	84.4	-
	15:09 - 16:09	68.7	86.0	-
	16:09 - 17:09	63.3	72.5	-
	17:09 - 18:09	62.9	71.6	-
	Equivalent Level 8 hrs (Leq 8 hrs)	**68.0**		**-**
	Time Weighted Average (TWA 8 hrs)[1']	**67.9**		**85[2']**
	Maximum Level (Lmax)	**88.2**		**115[3']**

Remark :
1' Calculates the Case of Employees Working in this Area throughout the Work Period.
2' The Announcement of the Department of Labour Protection and Welfare, issued under the Labour Ministerial Regulation, B.E.2559 (2016), published in the Royal Government Gazette Volume 135 Special Part 19D dated January 26, B.E.2561 (2018) and published in the Royal Government Gazette Volume 135 Special Part 57D dated March 12, B.E.2561 (2018).
3' Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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ANALYSIS REPORT

Customer Name :Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address :351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name :โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source :Work Place Air Temperature
Measured Date :April 30, 2026
Measured By :Ms.Asmah Hayimali
Analyzed By :Environment Research & Technology Co., Ltd.
Measured Instrument :Heat Stress Monitor/Electronic Metrosonics Model hs-32 Serial Number MCG080057

Quotation No. :MR2026-00144
Analysis No. :2026-AC176-005
Report No. :2026-RAAK115
Report Date :May 12, 2026

Measured Location	Working Area	Job Description/Activities	Work Load, WL		Duration	Measurement Temperature; °C				
			Metabolic Rate Average (Kcal/hr)	Workload Rate		T_{NWB}	T_{DB}	T_{GT}	WBGT	WBGT[1'] (Avg.)
หน้าเตาหลอม EAF	หน้าเตาหลอม EAF (Indoor)	ขับรถโฟล์คลิฟท์	195.0	Light	09:40-10:10	28.9	37.1	37.9	31.6	**31.9**
		- นั่ง ทำงานด้วยร่างกายทุกส่วน (เบา)			10:10-10:40	29.1	37.4	38.2	31.8	
		ควบคุมเครื่องจักร			10:40-11:10	29.5	37.7	38.6	32.2	
		- นั่ง ทำงานด้วยมือ (เบา)			11:10-11:40	29.3	37.8	38.4	32.0	
		การเผาผลาญพื้นฐานของร่างกาย								
Standard[2']						-	-	-	-	**34.0**

Remark : T_{NWB} = Nature Wet Bulb Temperature, T_{DB} = Dry Bulb Temperature, T_{GT} = Globe Temperature, WBGT = Wet Bulb Globe Temperature Index.

1' Calculate by $((WBGT_1 \times Time_1)+(WBGT_2 \times Time_2)+...+(WBGTn \times Timen)) / (Time_1 + Time_2 +...+Timen)$

2' Standards Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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ANALYSIS REPORT

Customer Name :Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address :351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name :โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source :Work Place Air Temperature
Measured Date :April 30, 2026
Measured By :Ms.Asmah Hayimali
Analyzed By :Environment Research & Technology Co., Ltd.
Measured Instrument :Heat Stress Monitor/Electronic Quest Technologies Model QT-32 Serial Number TPG030012

Quotation No. :MR2026-00144
Analysis No. :2026-AC176-006
Report No. :2026-RAAK116
Report Date :May 12, 2026

Measured Location	Working Area	Job Description/Activities	Work Load, WL		Duration	Measurement Temperature; °C				
			Metabolic Rate Average (Kcal/hr)	Workload Rate		T_{NWB}	T_{DB}	T_{GT}	WBGT	WBGT[1'] (Avg.)
หน้าเตาหลอม LF	หน้าเตาหลอม LF (Indoor)	เขี่ยเหล็ก	183.0	Light	09:46-10:16	28.6	39.0	40.2	32.1	**32.3**
		- ยืน ทำงานด้วยแขนทั้ง 2 ข้าง (เบา)			10:16-10:46	29.0	39.4	40.1	32.3	
		ตรวจสอบการทำงานของเครื่องจักร			10:46-11:16	29.2	39.5	40.3	32.5	
		- เดินบนพื้นราบ			11:16-11:46	29.1	39.7	40.2	32.4	
		การเผาผลาญพื้นฐานของร่างกาย								
Standard[2']						-	-	-	-	**34.0**

Remark : T_{NWB} = Nature Wet Bulb Temperature, T_{DB} = Dry Bulb Temperature, T_{GT} = Globe Temperature, WBGT = Wet Bulb Globe Temperature Index.

1' Calculate by $((WBGT_1 \times Time_1)+(WBGT_2 \times Time_2)+...+(WBGTn \times Timen)) / (Time_1 + Time_2 +...+Timen)$

2' Standards Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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ANALYSIS REPORT

Customer Name :Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address :351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name :โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source :Work Place Air Temperature
Measured Date :April 29, 2026
Measured By :Ms.Asmah Hayimali
Analyzed By :Environment Research & Technology Co., Ltd.
Measured Instrument :Heat Stress Monitor/Electronic Metrosonics Model hs-32 Serial Number MCG080057

Quotation No. :MR2026-00144
Analysis No. :2026-AC176-001
Report No. :2026-RAAK111
Report Date :May 12, 2026

Measured Location	Working Area	Job Description/Activities	Work Load, WL		Duration	Measurement Temperature; °C				
			Metabolic Rate Average (Kcal/hr)	Workload Rate		T_{NWB}	T_{DB}	T_{GT}	WBGT	WBGT[1'] (Avg.)
โรงรีด 1										
เตาอบเหล็ก	เตาอบเหล็ก (Indoor)	ตรวจสอบการทำงานของเครื่องจักร	185.0	Light	10:00-10:30	29.1	37.1	37.7	31.7	**31.6**
		- เดินบนพื้นราบ			10:30-11:00	28.7	36.8	37.3	31.3	
		ควบคุมเครื่องจักร			11:00-11:30	29.0	36.9	37.6	31.6	
		- ยืน ทำงานด้วยแขนทั้ง 2 ข้าง (เบา)			11:30-12:00	29.2	37.2	37.8	31.8	
		การเผาผลาญพื้นฐานของร่างกาย								
Standard[2']						-	-	-	-	**34.0**

Remark : T_{NWB} = Nature Wet Bulb Temperature, T_{DB} = Dry Bulb Temperature, T_{GT} = Globe Temperature, WBGT = Wet Bulb Globe Temperature Index.

1' Calculate by $((WBGT_1 \times Time_1)+(WBGT_2 \times Time_2)+...+(WBGTn \times Timen)) / (Time_1 + Time_2 +...+Timen)$

2' Standards Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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Address :351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name :โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Measured Source :Work Place Air Temperature
Measured Date :April 29, 2026
Measured By :Ms.Asmah Hayimali
Analyzed By :Environment Research & Technology Co., Ltd.
Measured Instrument :Heat Stress Monitor/Electronic Metrosonics Model hs-32 Serial Number MCG080057

Quotation No. :MR2026-00144
Analysis No. :2026-AC176-004
Report No. :2026-RAAK114
Report Date :May 12, 2026

Measured Location	Working Area	Job Description/Activities	Work Load, WL		Duration	Measurement Temperature; °C				
			Metabolic Rate Average (Kcal/hr)	Workload Rate		T_{NWB}	T_{DB}	T_{GT}	WBGT	WBGT[1'] (Avg.)
โรงรีด 2 เตาอบเหล็ก	เตาอบเหล็ก (Indoor)	ตรวจสอบการทำงานของเครื่องจักร - เดินบนพื้นราบ ควบคุมเครื่องจักร - ยืน ทำงานด้วยแขนทั้ง 2 ข้าง (เบา) การเผาผลาญพื้นฐานของร่างกาย	185.0	Light	13:15-13:45	28.4	37.4	37.8	31.2	**31.6**
					13:45-14:15	29.0	37.7	38.0	31.7	
					14:15-14:45	28.8	37.8	38.2	31.6	
					14:45-15:15	29.2	38.0	38.5	32.0	
Standard[2']						-	-	-	-	**34.0**

Remark : T_{NWB} = Nature Wet Bulb Temperature, T_{DB} = Dry Bulb Temperature, T_{GT} = Globe Temperature, WBGT = Wet Bulb Globe Temperature Index.

1' Calculate by $((WBGT_1 \times Time_1)+(WBGT_2 \times Time_2)+...+(WBGTn \times Timen)) / (Time_1 + Time_2 +...+Timen)$

2' Standards Ministerial Regulation of the Ministry of Labour, B.E.2559 (2016), published in the Royal Government Gazette No.133, Part 91A dated October 17, B.E.2559 (2016).

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Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Work Place Air Quality
Sampling Date : February 26, 2026
Sampling Time : 10:04-11:10
Sampling Method : APHA, NIOSH
Sampling By : Mr.Jirayuth Samart
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AA837
Received Date : March 2, 2026
Analytical Date : March 2-5, 2026
Report No. : 2026-RAAD747
Report Date : March 5, 2026

Item	Sampling Area	Parameter	Method of Analysis	Unit	Result	Standard	
						Thai[1']	ACGIH[2']
1	หน้าเตาหลอม EAF	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	0.16	-	10
2	หน้าเตาหลอม LF	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	0.16	-	10
3	ห่างจากเตาหลอม EAF ประมาณ 10 เมตร	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	<0.10	-	10
4	ห่างจากเตาหลอม LF ประมาณ 10 เมตร	Sulfur Dioxide	Titration	ppm	0.16	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	<0.10	-	10

Remark : [1'] The Announcement of the Department of Labour Protection and Welfare, issued under the Labour Ministerial Regulation, B.E.2556 (2013), published in the Royal Government Gazette Volume 134 Special Part 198D dated August 3, B.E.2560 (2017).
[2'] ACGIH = American Conference of Governmental Industrial Hygienists, 2021.

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ANALYSIS REPORT

Customer Name : Tata Steel Manufacturing (Thailand) PCL. (Branch : 00001)
Address : 351 Moo 6 WHA Chonburi Industrial Estate 1, 331 Highway Road, Bo Win, Si Racha, Chon Buri 20230
Project Name : โครงการขยายกำลังการผลิตเหล็กลวด ระยะที่ 2
Sampling Source : Work Place Air Quality
Sampling Date : June 30, 2026
Sampling Time : 15:07-17:08
Sampling Method : APHA, NIOSH
Sampling By : Mr.Akarawat Kochobog
Analyzed By : Environment Research & Technology Co., Ltd.

Quotation No. : MR2026-00144
Analysis No. : 2026-AD714
Received Date : July 2, 2026
Analytical Date : July 2-7, 2026
Report No. : 2026-RAAQ380
Report Date : July 8, 2026

Item	Sampling Area	Parameter	Method of Analysis	Unit	Result	Standard	
						Thai[1']	ACGIH[2']
1	หน้าเตาหลอม EAF	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	0.25	-	10
2	หน้าเตาหลอม LF	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	<0.10	-	10
3	ห่างจากเตาหลอม EAF ประมาณ 10 เมตร	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	0.25	-	10
4	ห่างจากเตาหลอม LF ประมาณ 10 เมตร	Sulfur Dioxide	Titration	ppm	<0.11	5	0.25
		Inhalable Dust	Gravimetric	mg/m³	0.17	-	10

Remark : [1'] The Announcement of the Department of Labour Protection and Welfare, issued under the Labour Ministerial Regulation, B.E.2556 (2013), published in the Royal Government Gazette Volume 134 Special Part 198D dated August 3, B.E.2560 (2017).
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