

ภาคผนวก ง

ใบรับรองผลการตรวจวัดและวิเคราะห์

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนวิมลทองประไพ แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : (662) 959-3600 FAX : (662) 959-3535 website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co.,Ltd. REFERENCE NO. : POSCO-225012-Cer-Amb/TSP_Jan25

SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17-24/01/2025

RECEIVED DATE : 27/01/2025 ANALYTICAL DATE : 27-28/01/2025

REPORT DATE : 30/01/2025 SAMPLE CONDITION : Normal

SITE OPERATOR : Mr. Siwanon Kulawong

LOCATION DESCRIPTION : 1. Map Yang Porn Sub-district Health Promoting Hospital

2. Wat Ratatsadaram

3. Suankularb Wittayalai Chonburi School

PARAMETER	SAMPLING DATE	UNIT	RESULTS			STANDARD*	REFERENCE METHOD
			1	2	3		
TSP (24 hr)	17-18/01/2025	mg/m ³	0.128	0.160	0.133	0.330	40 CFR 50 App B
	18-19/01/2025	mg/m ³	0.144	0.150	0.137		
	19-20/01/2025	mg/m ³	0.154	0.197	0.138		
	20-21/01/2025	mg/m ³	0.154	0.211	0.148		
	21-22/01/2025	mg/m ³	0.173	0.248	0.182		
	22-23/01/2025	mg/m ³	0.158	0.269	0.195		
	23-24/01/2025	mg/m ³	0.204	0.293	0.190		

Rompa Puthum

(Miss Pornnapa Budthum)

Analyst

Manin Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. * Notification of the National Environment Board, No.24, B.E.2547 (2004).

R:\Database\Ambient\AirControl\Amb-225012-Mab Yang Porn Sub-District Health Promoting Hospital-SO2 17-24 Jan 2025



Ambient Air Monitoring Results : Sulfur dioxide MTR-POSCO

Location : Mab Yang Porn Sub-District Health Promoting Hospital Monitor Period : 17-24 Jan 2025

Analyzer Model : API 100A Station No : SECOT-019

Serial No : 186 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587

Calibration Gas Cylinder I.D.: EB0102326

Certified Date : 10 Jan 2025 Cal Concentration (ppb) : 0,100,200,400

Expire Date : 09 Jan 2026

Time	SO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
10:00 - 11:00	0.0048	0.0033	0.0053	0.0048	0.0054	0.0032	0.0047
11:00 - 12:00	0.0045	0.0062	0.0050	0.0047	0.0028	0.0088	0.0081
12:00 - 13:00	0.0024	0.0049	0.0041	0.0064	0.0056	0.0060	0.0042
13:00 - 14:00	0.0032	0.0035	0.0040	0.0104	0.0057	0.0061	0.0051
14:00 - 15:00	0.0051	0.0039	0.0259	0.0230	0.0053	0.0066	0.0049
15:00 - 16:00	0.0048	0.0081	0.0261	0.0187	0.0029	0.0041	0.0018
16:00 - 17:00	0.0032	0.0163	0.0158	0.0036	0.0038	0.0051	0.0032
17:00 - 18:00	0.0051	0.0039	0.0095	0.0039	0.0058	0.0072	0.0043
18:00 - 19:00	0.0024	0.0131	0.0054	0.0044	0.0032	0.0046	0.0027
19:00 - 20:00	0.0033	0.0164	0.0029	0.0046	0.0093	0.0098	0.0085
20:00 - 21:00	0.0024	0.0099	0.0035	0.0039	0.0036	0.0040	0.0030
21:00 - 22:00	0.0031	0.0042	0.0059	0.0038	0.0035	0.0042	0.0027
22:00 - 23:00	0.0049	0.0085	0.0026	0.0040	0.0035	0.0043	0.0026
23:00 - 00:00	0.0058	0.0030	0.0042	0.0028	0.0065	0.0076	0.0052
00:00 - 01:00	0.0042	0.0070	0.0055	0.0056	0.0060	0.0069	0.0048
01:00 - 02:00	0.0022	0.0036	0.0096	0.0036	0.0067	0.0081	0.0060
02:00 - 03:00	0.0109	0.0049	0.0036	0.0047	0.0050	0.0055	0.0036
03:00 - 04:00	0.0046	0.0047	0.0046	0.0046	0.0056	0.0064	0.0044
04:00 - 05:00	0.0060	0.0061	0.0028	0.0067	0.0056	0.0060	0.0050
05:00 - 06:00	0.0055	0.0028	0.0035	0.0041	0.0068	0.0073	0.0054
06:00 - 07:00	0.0057	0.0058	0.0051	0.0042	0.0046	0.0081	0.0031
07:00 - 08:00	0.0061	0.0040	0.0035	0.0057	0.0063	0.0078	0.0051
08:00 - 09:00	0.0062	0.0030	0.0047	0.0057	0.0055	0.0059	0.0040
09:00 - 10:00	0.0031	0.0027	0.0060	0.0043	0.0047	0.0058	0.0035
Average-24Hr*	0.0046	0.0060	0.0070	0.0062	0.0052	0.0061	0.0044
Max-1Hr	0.0109	0.0164	0.0261	0.0230	0.0093	0.0098	0.0085
Min-1Hr	0.0022	0.0027	0.0026	0.0028	0.0028	0.0032	0.0018
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-POSCO

Location : Wat Ratadaram	Monitor Period : 17-24 Jan 2025
Analyzer Model : Teledyne T100	Station No : SCT-15
Serial No : 120	Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E	Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326	
Certified Date : 10 Jan 2025	Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026	

Time	SO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
10:00 - 11:00	0.0028	0.0039	0.0054	0.0037	0.0052	0.0035	0.0075
11:00 - 12:00	0.0034	0.0035	0.0054	0.0041	0.0038	0.0075	0.0038
12:00 - 13:00	0.0031	0.0032	0.0048	0.0031	0.0046	0.0042	0.0062
13:00 - 14:00	0.0023	0.0041	0.0055	0.0089	0.0060	0.0040	0.0048
14:00 - 15:00	0.0034	0.0056	0.0222	0.0233	0.0042	0.0037	0.0038
15:00 - 16:00	0.0030	0.0076	0.0221	0.0217	0.0056	0.0034	0.0043
16:00 - 17:00	0.0039	0.0191	0.0133	0.0038	0.0063	0.0035	0.0052
17:00 - 18:00	0.0038	0.0045	0.0105	0.0052	0.0050	0.0042	0.0063
18:00 - 19:00	0.0044	0.0159	0.0063	0.0050	0.0059	0.0040	0.0083
19:00 - 20:00	0.0054	0.0207	0.0041	0.0061	0.0082	0.0043	0.0195
20:00 - 21:00	0.0048	0.0072	0.0063	0.0059	0.0035	0.0047	0.0048
21:00 - 22:00	0.0053	0.0047	0.0038	0.0058	0.0054	0.0056	0.0167
22:00 - 23:00	0.0049	0.0064	0.0050	0.0063	0.0037	0.0068	0.0214
23:00 - 00:00	0.0049	0.0056	0.0063	0.0046	0.0035	0.0054	0.0086
00:00 - 01:00	0.0031	0.0071	0.0053	0.0032	0.0055	0.0058	0.0056
01:00 - 02:00	0.0062	0.0045	0.0098	0.0041	0.0038	0.0057	0.0072
02:00 - 03:00	0.0089	0.0058	0.0029	0.0067	0.0071	0.0053	0.0066
03:00 - 04:00	0.0041	0.0064	0.0065	0.0048	0.0035	0.0045	0.0078
04:00 - 05:00	0.0059	0.0054	0.0029	0.0059	0.0059	0.0074	0.0049
05:00 - 06:00	0.0044	0.0057	0.0037	0.0058	0.0068	0.0101	0.0066
06:00 - 07:00	0.0063	0.0037	0.0050	0.0067	0.0053	0.0071	0.0075
07:00 - 08:00	0.0062	0.0032	0.0032	0.0044	0.0048	0.0071	0.0061
08:00 - 09:00	0.0026	0.0033	0.0049	0.0039	0.0068	0.0047	0.0067
09:00 - 10:00	0.0048	0.0036	0.0039	0.0053	0.0035	0.0070	0.0049
Average-24Hr*	0.0045	0.0067	0.0070	0.0066	0.0052	0.0053	0.0077
Max-1Hr	0.0089	0.0207	0.0222	0.0233	0.0082	0.0101	0.0214
Min-1Hr	0.0023	0.0032	0.0029	0.0031	0.0035	0.0034	0.0038
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Sulfur dioxide MTR-POSCO

Location : Suangulhab School	Monitor Period : 17-24 Jan 2025
Analyzer Model : Teledyne T100	Station No : SCT-18
Serial No : 119	Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E	Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326	
Certified Date : 10 Jan 2025	Cal Concentration (ppb) : 0,100,200,400
Expire Date : 09 Jan 2026	

Time	SO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
16:00 - 17:00	0.0025	0.0130	0.0138	0.0085	0.0028	0.0136	0.0044
17:00 - 18:00	0.0040	0.0036	0.0203	0.0039	0.0048	0.0048	0.0043
18:00 - 19:00	0.0042	0.0167	0.0051	0.0040	0.0053	0.0171	0.0057
19:00 - 20:00	0.0043	0.0112	0.0054	0.0018	0.0106	0.0123	0.0063
20:00 - 21:00	0.0040	0.0107	0.0022	0.0058	0.0038	0.0114	0.0030
21:00 - 22:00	0.0042	0.0054	0.0024	0.0042	0.0017	0.0060	0.0035
22:00 - 23:00	0.0054	0.0032	0.0038	0.0052	0.0086	0.0040	0.0044
23:00 - 00:00	0.0058	0.0024	0.0058	0.0085	0.0106	0.0029	0.0070
00:00 - 01:00	0.0028	0.0076	0.0023	0.0051	0.0081	0.0086	0.0028
01:00 - 02:00	0.0024	0.0053	0.0077	0.0058	0.0082	0.0065	0.0089
02:00 - 03:00	0.0099	0.0049	0.0032	0.0108	0.0044	0.0061	0.0040
03:00 - 04:00	0.0039	0.0030	0.0039	0.0049	0.0025	0.0036	0.0047
04:00 - 05:00	0.0058	0.0028	0.0088	0.0062	0.0104	0.0036	0.0100
05:00 - 06:00	0.0050	0.0037	0.0037	0.0032	0.0039	0.0046	0.0045
06:00 - 07:00	0.0078	0.0043	0.0041	0.0040	0.0087	0.0047	0.0049
07:00 - 08:00	0.0042	0.0054	0.0046	0.0065	0.0033	0.0064	0.0061
08:00 - 09:00	0.0035	0.0049	0.0052	0.0025	0.0037	0.0061	0.0056
09:00 - 10:00	0.0049	0.0055	0.0070	0.0035	0.0090	0.0066	0.0079
10:00 - 11:00	0.0027	0.0025	0.0020	0.0019	0.0026	0.0034	0.0028
11:00 - 12:00	0.0056	0.0046	0.0020	0.0053	0.0095	0.0055	0.0030
12:00 - 13:00	0.0049	0.0048	0.0040	0.0029	0.0036	0.0060	0.0046
13:00 - 14:00	0.0052	0.0025	0.0098	0.0093	0.0055	0.0036	0.0109
14:00 - 15:00	0.0047	0.0220	0.0258	0.0062	0.0056	0.0025	0.0167
15:00 - 16:00	0.0103	0.0250	0.0108	0.0037	0.0110	0.0058	0.0117
Average-24Hr*	0.0049	0.0073	0.0068	0.0052	0.0060	0.0065	0.0061
Max-1Hr	0.0103	0.0250	0.0258	0.0108	0.0110	0.0171	0.0167
Min-1Hr	0.0024	0.0024	0.0020	0.0018	0.0017	0.0025	0.0028
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor Period : 17-24 Jan 2025
Analyzer Model : API 200A Station No : SECOT-019
Serial No : 1505 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
10:00 - 11:00	0.0100	0.0080	0.0061	0.0055	0.0077	0.0104	0.0078
11:00 - 12:00	0.0131	0.0078	0.0045	0.0079	0.0067	0.0083	0.0061
12:00 - 13:00	0.0108	0.0067	0.0050	0.0067	0.0063	0.0075	0.0055
13:00 - 14:00	0.0153	0.0084	0.0062	0.0102	0.0064	0.0104	0.0058
14:00 - 15:00	0.0122	0.0108	0.0092	0.0072	0.0098	0.0069	0.0107
15:00 - 16:00	0.0128	0.0115	0.0047	0.0120	0.0037	0.0117	0.0039
16:00 - 17:00	0.0139	0.0143	0.0092	0.0214	0.0069	0.0210	0.0070
17:00 - 18:00	0.0136	0.0242	0.0107	0.0251	0.0148	0.0251	0.0155
18:00 - 19:00	0.0130	0.0139	0.0210	0.0252	0.0229	0.0251	0.0228
19:00 - 20:00	0.0263	0.0119	0.0148	0.0255	0.0210	0.0259	0.0212
20:00 - 21:00	0.0179	0.0142	0.0152	0.0147	0.0191	0.0148	0.0193
21:00 - 22:00	0.0135	0.0142	0.0119	0.0201	0.0114	0.0192	0.0111
22:00 - 23:00	0.0117	0.0075	0.0103	0.0136	0.0026	0.0141	0.0032
23:00 - 00:00	0.0134	0.0075	0.0110	0.0045	0.0233	0.0046	0.0223
00:00 - 01:00	0.0111	0.0082	0.0045	0.0171	0.0146	0.0177	0.0154
01:00 - 02:00	0.0089	0.0066	0.0039	0.0021	0.0025	0.0024	0.0021
02:00 - 03:00	0.0079	0.0082	0.0100	0.0087	0.0091	0.0078	0.0092
03:00 - 04:00	0.0085	0.0060	0.0095	0.0079	0.0091	0.0074	0.0091
04:00 - 05:00	0.0072	0.0057	0.0103	0.0050	0.0053	0.0053	0.0054
05:00 - 06:00	0.0150	0.0079	0.0108	0.0188	0.0096	0.0182	0.0098
06:00 - 07:00	0.0243	0.0076	0.0087	0.0163	0.0181	0.0170	0.0188
07:00 - 08:00	0.0124	0.0048	0.0160	0.0214	0.0209	0.0215	0.0216
08:00 - 09:00	0.0092	0.0067	0.0110	0.0145	0.0115	0.0143	0.0110
09:00 - 10:00	0.0148	0.0079	0.0092	0.0085	0.0107	0.0075	0.0116
Average-24Hr*	0.0132	0.0096	0.0097	0.0133	0.0114	0.0135	0.0115
Max-1Hr	0.0263	0.0242	0.0210	0.0255	0.0233	0.0259	0.0228
Min-1Hr	0.0072	0.0048	0.0039	0.0021	0.0025	0.0024	0.0021
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Wat Ratasadaram Monitor Period : 17-24 Jan 2025
Analyzer Model : API 200A Station No : SCT-15
Serial No : 2386 Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326
Certified Date : 08 Jan 2025 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026

Time	NO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
10:00 - 11:00	0.0101	0.0103	0.0088	0.0066	0.0072	0.0165	0.0078
11:00 - 12:00	0.0174	0.0092	0.0063	0.0078	0.0102	0.0078	0.0099
12:00 - 13:00	0.0100	0.0069	0.0053	0.0061	0.0062	0.0076	0.0066
13:00 - 14:00	0.0150	0.0086	0.0077	0.0084	0.0092	0.0085	0.0102
14:00 - 15:00	0.0152	0.0112	0.0110	0.0086	0.0078	0.0078	0.0085
15:00 - 16:00	0.0147	0.0128	0.0072	0.0215	0.0032	0.0216	0.0028
16:00 - 17:00	0.0131	0.0134	0.0133	0.0166	0.0065	0.0165	0.0081
17:00 - 18:00	0.0154	0.0254	0.0122	0.0240	0.0187	0.0249	0.0187
18:00 - 19:00	0.0160	0.0124	0.0169	0.0255	0.0204	0.0262	0.0204
19:00 - 20:00	0.0264	0.0117	0.0210	0.0231	0.0203	0.0234	0.0200
20:00 - 21:00	0.0198	0.0143	0.0196	0.0200	0.0118	0.0197	0.0122
21:00 - 22:00	0.0131	0.0116	0.0127	0.0144	0.0197	0.0148	0.0200
22:00 - 23:00	0.0130	0.0100	0.0084	0.0210	0.0016	0.0212	0.0012
23:00 - 00:00	0.0159	0.0096	0.0088	0.0043	0.0225	0.0039	0.0220
00:00 - 01:00	0.0127	0.0067	0.0066	0.0163	0.0192	0.0169	0.0197
01:00 - 02:00	0.0109	0.0082	0.0069	0.0058	0.0026	0.0059	0.0018
02:00 - 03:00	0.0078	0.0068	0.0086	0.0070	0.0081	0.0081	0.0077
03:00 - 04:00	0.0076	0.0096	0.0095	0.0069	0.0069	0.0075	0.0073
04:00 - 05:00	0.0102	0.0092	0.0105	0.0058	0.0080	0.0051	0.0078
05:00 - 06:00	0.0157	0.0091	0.0113	0.0193	0.0106	0.0192	0.0102
06:00 - 07:00	0.0179	0.0065	0.0084	0.0172	0.0142	0.0177	0.0135
07:00 - 08:00	0.0122	0.0093	0.0173	0.0242	0.0216	0.0250	0.0214
08:00 - 09:00	0.0073	0.0072	0.0121	0.0198	0.0142	0.0197	0.0145
09:00 - 10:00	0.0112	0.0082	0.0124	0.0101	0.0139	0.0095	0.0139
Average-24Hr*	0.0137	0.0103	0.0110	0.0142	0.0119	0.0148	0.0119
Max-1Hr	0.0264	0.0254	0.0210	0.0255	0.0225	0.0262	0.0220
Min-1Hr	0.0073	0.0065	0.0053	0.0043	0.0016	0.0039	0.0012
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Suangulhab School	Monitor Period : 17-24 Jan 2025
Analyzer Model : API 200A	Station No : SCT-18
Serial No : 1523	Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E	Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326	
Certified Date : 08 Jan 2025	Cal Concentration (ppb) : 0,100,200,400
Expire Date : 07 Jan 2026	

Time	NO2 Concentration (ppm)						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
18:00 - 17:00	0.0072	0.0130	0.0082	0.0169	0.0078	0.0111	0.0105
17:00 - 18:00	0.0123	0.0171	0.0176	0.0202	0.0177	0.0228	0.0109
18:00 - 19:00	0.0111	0.0105	0.0256	0.0229	0.0192	0.0148	0.0114
19:00 - 20:00	0.0219	0.0115	0.0247	0.0242	0.0172	0.0137	0.0110
20:00 - 21:00	0.0151	0.0123	0.0187	0.0196	0.0129	0.0109	0.0078
21:00 - 22:00	0.0131	0.0106	0.0074	0.0216	0.0103	0.0142	0.0048
22:00 - 23:00	0.0107	0.0074	0.0096	0.0049	0.0070	0.0132	0.0032
23:00 - 00:00	0.0142	0.0048	0.0084	0.0038	0.0160	0.0070	0.0051
00:00 - 01:00	0.0123	0.0036	0.0027	0.0219	0.0145	0.0091	0.0088
01:00 - 02:00	0.0078	0.0046	0.0028	0.0033	0.0017	0.0060	0.0042
02:00 - 03:00	0.0092	0.0069	0.0102	0.0082	0.0025	0.0062	0.0081
03:00 - 04:00	0.0060	0.0051	0.0065	0.0068	0.0070	0.0103	0.0057
04:00 - 05:00	0.0066	0.0090	0.0098	0.0037	0.0063	0.0172	0.0060
05:00 - 06:00	0.0108	0.0056	0.0054	0.0166	0.0156	0.0129	0.0042
06:00 - 07:00	0.0166	0.0060	0.0074	0.0224	0.0142	0.0078	0.0038
07:00 - 08:00	0.0122	0.0043	0.0150	0.0185	0.0070	0.0103	0.0106
08:00 - 09:00	0.0087	0.0047	0.0075	0.0094	0.0155	0.0139	0.0054
09:00 - 10:00	0.0104	0.0102	0.0089	0.0062	0.0209	0.0056	0.0047
10:00 - 11:00	0.0134	0.0061	0.0031	0.0087	0.0080	0.0129	0.0102
11:00 - 12:00	0.0049	0.0052	0.0034	0.0067	0.0036	0.0072	0.0044
12:00 - 13:00	0.0127	0.0113	0.0054	0.0047	0.0016	0.0125	0.0110
13:00 - 14:00	0.0068	0.0048	0.0051	0.0069	0.0071	0.0166	0.0051
14:00 - 15:00	0.0127	0.0107	0.0096	0.0064	0.0077	0.0137	0.0088
15:00 - 16:00	0.0168	0.0048	0.0189	0.0021	0.0117	0.0174	0.0170
Average-24Hr*	0.0114	0.0079	0.0101	0.0119	0.0105	0.0120	0.0075
Max-1Hr	0.0219	0.0171	0.0256	0.0242	0.0209	0.0228	0.0170
Min-1Hr	0.0049	0.0036	0.0027	0.0021	0.0016	0.0056	0.0032
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 18:00-18:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

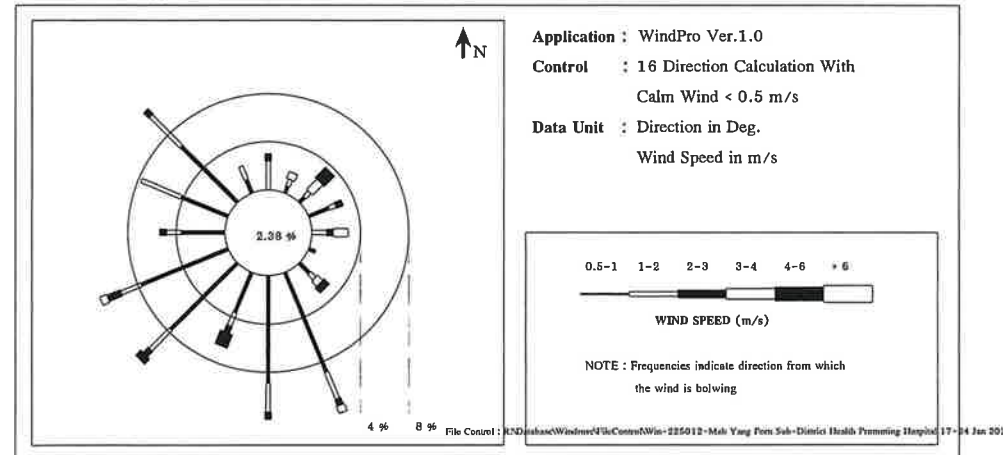
Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital	Monitor period : 17-24 Jan 2025
Wind Speed Model : Novalynx WS-25	Serial No : A5084
Wind Direction Model : Novalynx WS-25	Serial No : A5084

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0000	0.0238	0.0060	0.0000	0.0000	0.0000	0.0298
NNE	0.0060	0.0060	0.0000	0.0060	0.0000	0.0000	0.0179
NE	0.0060	0.0060	0.0000	0.0119	0.0119	0.0000	0.0357
ENE	0.0179	0.0060	0.0060	0.0000	0.0000	0.0000	0.0298
E	0.0000	0.0119	0.0060	0.0119	0.0000	0.0000	0.0298
ESE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0119	0.0060	0.0000	0.0060	0.0060	0.0000	0.0298
SSE	0.0893	0.0238	0.0060	0.0060	0.0000	0.0000	0.1250
S	0.0893	0.0238	0.0060	0.0000	0.0000	0.0000	0.1190
SSW	0.0357	0.0119	0.0060	0.0000	0.0119	0.0000	0.0655
SW	0.0774	0.0238	0.0060	0.0000	0.0060	0.0000	0.1131
WSW	0.0774	0.0179	0.0119	0.0060	0.0000	0.0000	0.1131
W	0.0357	0.0119	0.0060	0.0000	0.0000	0.0000	0.0536
WNW	0.0417	0.0357	0.0000	0.0000	0.0000	0.0000	0.0774
NW	0.0655	0.0357	0.0060	0.0000	0.0000	0.0000	0.1071
NNW	0.0119	0.0119	0.0000	0.0000	0.0000	0.0000	0.0238
CALM	0.0238						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor period : 17-24 Jan 2025

Wind Speed Model : Novalynx WS-25

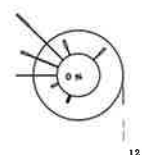
Serial No : A5084

Wind Direction Model : Novalynx WS-25

Serial No : A5084

Time	17-18 Jan 2025		18-19 Jan 2025		19-20 Jan 2025		20-21 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	0.8	W	1.1	NW	0.9	NW	1.0	N
11:00 - 12:00	1.9	NNW	0.6	NW	1.3	WNW	0.7	NNW
12:00 - 13:00	0.9	NW	1.0	WSW	1.4	NW	0.6	WNW
13:00 - 14:00	0.5	W	0.9	SSW	0.9	NW	1.1	NW
14:00 - 15:00	1.0	NW	1.8	SSE	0.5	NW	2.0	W
15:00 - 16:00	1.8	WSW	1.6	SSE	1.5	SSE	1.0	WNW
16:00 - 17:00	0.7	W	1.1	S	0.5	SSE	2.2	WSW
17:00 - 18:00	0.6	W	0.6	SSE	0.6	SSE	0.6	WSW
18:00 - 19:00	1.3	WNW	0.5	SSE	0.7	S	0.6	SW
19:00 - 20:00	0.7	WNW	0.6	SSE	1.4	WSW	0.6	SW
20:00 - 21:00	0.6	NW	0.6	SSE	0.5	WSW	0.5	SW
21:00 - 22:00	0.5	WNW	0.6	SSE	0.6	WSW	0.6	SW
22:00 - 23:00	0.6	WNW	0.6	SSE	0.6	WSW	0.5	SW
23:00 - 24:00	0.7	NW	0.5	SSE	0.5	WSW	0.5	SW
00:00 - 01:00	0.5	NNW	0.5	SSE	0.6	WSW	0.5	SW
01:00 - 02:00	0.7	W	0.7	SSE	0.6	WSW	1.1	SW
02:00 - 03:00	0.5	NW	0.7	SSE	0.5	WSW	0.7	SW
03:00 - 04:00	0.5	NW	0.7	SSE	0.5	WSW	0.7	SW
04:00 - 05:00	0.6	NW	0.6	S	0.7	WSW	0.6	SW
05:00 - 06:00	2.1	SSW	2.0	SW	0.5	NW	0.6	SW
06:00 - 07:00	1.2	NW	1.2	WNW	0.7	WNW	1.8	WNW
07:00 - 08:00	0.6	WNW	1.2	NW	1.0	W	0.9	SSW
08:00 - 09:00	1.1	NE	0.8	ENE	2.4	E	2.1	SSE
09:00 - 10:00	0.6	NE	1.1	W	1.0	SSW	1.0	SW

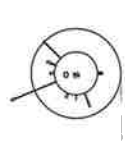
Wind Rose



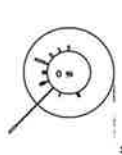
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File Control : R:\Database\Windrose\FileControl\Win-225012-Mab Yang Pom Sub-District Health Promoting Hospital 17-24 Jan 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor period : 17-24 Jan 2025

Wind Speed Model : Novalynx WS-25

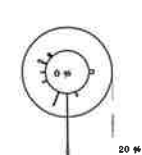
Serial No : A5084

Wind Direction Model : Novalynx WS-25

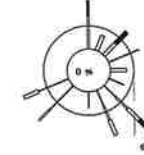
Serial No : A5084

Time	21-22 Jan 2025		22-23 Jan 2025		23-24 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	0.9	WNW	3.5	WSW	4.0	NE
11:00 - 12:00	0.5	SSE	3.5	NNE	2.8	ENE
12:00 - 13:00	0.8	SSW	3.1	SSE	5.7	SSW
13:00 - 14:00	2.0	NW	4.7	SE	4.8	SSW
14:00 - 15:00	0.9	W	4.0	NE	5.2	SW
15:00 - 16:00	1.7	S	3.3	E	3.3	NE
16:00 - 17:00	0.6	WSW	2.1	N	2.1	WSW
17:00 - 18:00	0.5	SSW	1.8	SW	1.9	E
18:00 - 19:00	0.7	S	1.6	N	0.3	SSE
19:00 - 20:00	0.6	S	0.6	SE	1.0	SW
20:00 - 21:00	0.5	S	0.9	SW	0.6	SSW
21:00 - 22:00	1.1	S	0.9	ESE	1.0	NNE
22:00 - 23:00	0.6	S	1.1	SE	0.6	S
23:00 - 24:00	0.5	S	1.1	N	1.2	ENE
00:00 - 01:00	0.7	S	0.9	WSW	1.1	SSW
01:00 - 02:00	0.7	S	0.6	ENE	0.9	SE
02:00 - 03:00	0.5	S	0.7	S	0.0	SE
03:00 - 04:00	0.6	S	0.9	ENE	1.5	E
04:00 - 05:00	0.6	S	0.7	SSE	1.0	S
05:00 - 06:00	0.7	S	0.5	WSW	0.0	E
06:00 - 07:00	2.4	S	0.8	SW	0.2	S
07:00 - 08:00	1.2	WNW	1.8	SSE	0.8	NNE
08:00 - 09:00	0.9	SSW	3.2	NE	1.1	N
09:00 - 10:00	3.1	E	3.4	SE	1.1	NNW

Wind Rose



20 %



6 %



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File Control : R:\Database\Windrose\FileControl\Win-225012-Mab Yang Pom Sub-District Health Promoting Hospital 17-24 Jan 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

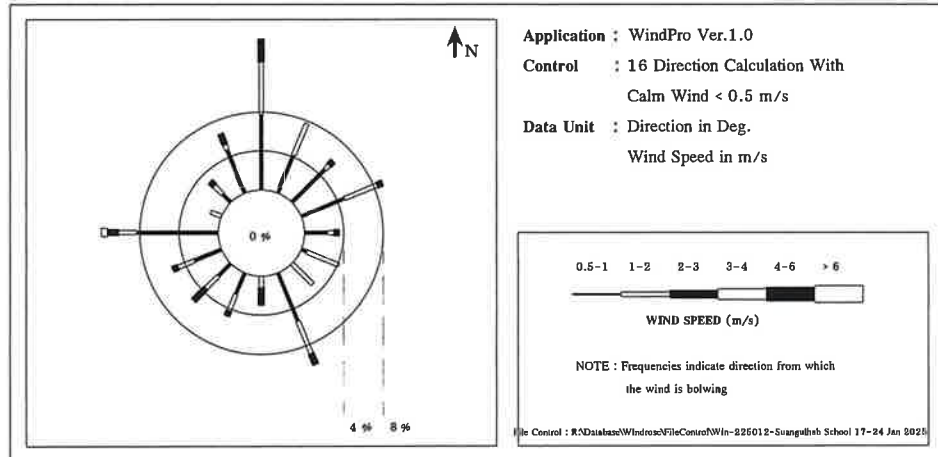
Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Suangulhab School Monitor period : 17-24 Jan 2025
 Wind Speed Model : Novalynx WS-25 Serial No : A5090
 Wind Direction Model : Novalynx WS-25 Serial No : A5090

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0774	0.0536	0.0238	0.0000	0.0000	0.0000	0.1548
NNE	0.0417	0.0357	0.0000	0.0000	0.0000	0.0000	0.0774
NE	0.0476	0.0060	0.0000	0.0000	0.0000	0.0000	0.0536
ENE	0.0476	0.0357	0.0060	0.0000	0.0000	0.0000	0.0893
E	0.0238	0.0060	0.0060	0.0000	0.0000	0.0000	0.0357
ESE	0.0060	0.0357	0.0000	0.0000	0.0000	0.0000	0.0417
SE	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0298
SSE	0.0536	0.0357	0.0119	0.0000	0.0000	0.0000	0.1012
S	0.0000	0.0119	0.0179	0.0000	0.0000	0.0000	0.0298
SSW	0.0238	0.0179	0.0060	0.0000	0.0000	0.0000	0.0476
SW	0.0179	0.0179	0.0179	0.0000	0.0000	0.0000	0.0536
WSW	0.0298	0.0179	0.0060	0.0000	0.0000	0.0000	0.0536
W	0.0833	0.0179	0.0119	0.0060	0.0000	0.0000	0.1190
WNW	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
NW	0.0119	0.0119	0.0060	0.0000	0.0000	0.0000	0.0298
NNW	0.0476	0.0060	0.0119	0.0000	0.0000	0.0000	0.0655
CALM	0.0000						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Suangulhab School Monitor period : 17-24 Jan 2025
 Wind Speed Model : Novalynx WS-25 Serial No : A5090
 Wind Direction Model : Novalynx WS-25 Serial No : A5090

Time	17-18 Jan 2025		18-19 Jan 2025		19-20 Jan 2025		20-21 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	2.5	NE	1.3	NNE	1.2	N	1.8	W
17:00 - 18:00	0.5	NNE	2.2	S	1.9	N	1.6	WSW
18:00 - 19:00	0.7	NE	2.3	SW	1.4	N	0.8	W
19:00 - 20:00	1.5	SSE	2.5	S	2.4	WSW	0.7	W
20:00 - 21:00	2.1	E	1.8	WNW	1.5	W	0.5	W
21:00 - 22:00	0.7	E	0.6	W	1.2	WSW	0.6	W
22:00 - 23:00	0.6	NNE	0.7	W	0.7	WSW	0.7	W
23:00 - 24:00	0.7	NE	1.3	W	0.6	WSW	0.6	W
00:00 - 01:00	0.7	E	0.6	WSW	0.7	WSW	0.6	W
01:00 - 02:00	0.5	NNE	2.4	NNW	0.7	SSW	2.2	SSE
02:00 - 03:00	0.6	NE	0.7	NNW	1.7	N	0.5	SSE
03:00 - 04:00	0.7	ENE	0.5	NNW	0.6	NNW	2.4	SW
04:00 - 05:00	0.7	N	0.7	N	0.5	NNW	0.6	W
05:00 - 06:00	0.7	NNE	0.5	NNE	0.7	NNW	0.7	W
06:00 - 07:00	0.6	E	0.5	NNE	2.0	S	0.6	W
07:00 - 08:00	0.6	N	0.7	N	2.3	N	2.2	N
08:00 - 09:00	0.6	ENE	2.1	N	2.5	ENE	1.4	ESE
09:00 - 10:00	0.6	ENE	1.0	NNE	0.6	NE	0.5	NNE
10:00 - 11:00	0.5	N	0.5	NE	0.7	N	0.9	NW
11:00 - 12:00	0.5	ENE	0.5	N	1.9	WNW	1.7	SW
12:00 - 13:00	0.7	NE	0.5	ENE	0.6	NNW	0.5	SW
13:00 - 14:00	2.3	N	0.7	N	0.9	SSW	1.8	ESE
14:00 - 15:00	0.6	N	0.7	N	2.5	NW	2.1	W
15:00 - 16:00	0.5	NE	0.5	NW	3.4	W	2.4	SW



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

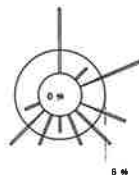
Location : Suangulhab School Monitor period : 17-24 Jan 2025
 Wind Speed Model : Novalynx WS-25 Serial No : A5090
 Wind Direction Model : Novalynx WS-25 Serial No : A5090

Time	21-22 Jan 2025		22-23 Jan 2025		23-24 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	0.6	WSW	0.7	SW	1.6	S
17:00 - 18:00	0.7	W	0.9	ESE	1.7	ESE
18:00 - 19:00	0.7	W	1.7	ENE	1.4	SSE
19:00 - 20:00	1.8	SSE	1.6	ENE	0.6	SSW
20:00 - 21:00	0.7	SSE	1.6	SSW	1.3	ENE
21:00 - 22:00	0.7	SSE	1.5	SE	1.2	NNE
22:00 - 23:00	0.6	SSE	1.0	N	1.3	SE
23:00 - 24:00	0.6	SSE	1.0	ENE	0.9	NE
00:00 - 01:00	2.3	SSW	1.5	SSW	1.4	SSE
01:00 - 02:00	2.5	SSE	1.5	SE	0.9	SW
02:00 - 03:00	0.6	SSE	1.7	N	1.7	ESE
03:00 - 04:00	0.5	SSE	1.3	SSE	1.5	SSW
04:00 - 05:00	0.5	SSE	1.5	NE	1.0	ENE
05:00 - 06:00	0.5	SSE	1.3	ESE	1.6	N
06:00 - 07:00	2.4	W	1.3	SW	1.1	SE
07:00 - 08:00	1.7	NW	1.3	WSW	0.7	SSW
08:00 - 09:00	1.6	E	1.5	S	0.7	E
09:00 - 10:00	1.7	NNE	1.5	N	0.7	N
10:00 - 11:00	2.2	NNW	1.4	SSE	1.3	NNE
11:00 - 12:00	0.9	N	0.7	ENE	0.7	N
12:00 - 13:00	1.9	NNW	1.2	SE	0.9	NNW
13:00 - 14:00	0.7	ENE	1.7	SW	1.0	NW
14:00 - 15:00	0.7	ENE	1.7	ESE	1.1	NNE
15:00 - 16:00	1.4	ENE	1.5	N	0.8	NNW

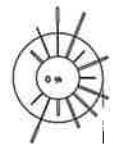
Wind Rose



20 %



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6 %



WIND SPEED (m/s) - Scale 1:3

File Control : R:\Database\Windrose\FileControl\Win-225012-Suangulhab School 17-24 Jan 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

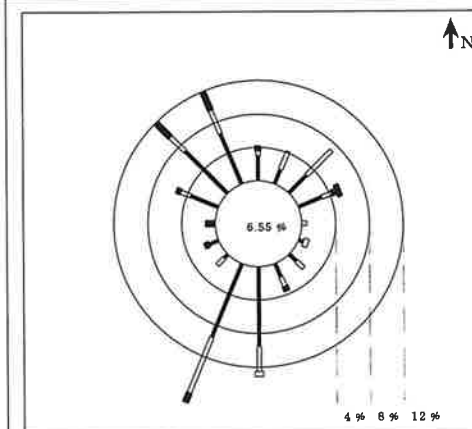
Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadaram Monitor period : 17-24 Jan 2025
 Wind Speed Model : Novalynx WS-25 Serial No : A5091
 Wind Direction Model : Novalynx WS-25 Serial No : A5091

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0298	0.0060	0.0060	0.0000	0.0000	0.0000	0.0417
NNE	0.0179	0.0238	0.0000	0.0000	0.0000	0.0000	0.0417
NE	0.0298	0.0417	0.0000	0.0000	0.0000	0.0000	0.0714
ENE	0.0298	0.0119	0.0060	0.0000	0.0060	0.0000	0.0536
E	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
ESE	0.0060	0.0000	0.0000	0.0060	0.0000	0.0000	0.0119
SE	0.0119	0.0119	0.0000	0.0000	0.0000	0.0000	0.0238
SSE	0.0179	0.0119	0.0060	0.0000	0.0000	0.0000	0.0357
S	0.0952	0.0298	0.0000	0.0060	0.0000	0.0000	0.1310
SSW	0.0952	0.0714	0.0119	0.0000	0.0000	0.0000	0.1786
SW	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
WSW	0.0119	0.0000	0.0060	0.0000	0.0000	0.0000	0.0179
W	0.0000	0.0000	0.0119	0.0000	0.0000	0.0000	0.0119
WNW	0.0357	0.0119	0.0060	0.0000	0.0000	0.0000	0.0536
NW	0.0714	0.0238	0.0238	0.0000	0.0000	0.0000	0.1190
NNW	0.0655	0.0298	0.0238	0.0000	0.0000	0.0000	0.1190
CALM	0.0655						



4 % 6 % 12 %

Application : WindPro Ver.1.0
 Control : 16 Direction Calculation With
 Calm Wind < 0.5 m/s
 Data Unit : Direction in Deg.
 Wind Speed in m/s



NOTE : Frequencies indicate direction from which
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-225012-Wat Ratasadaram 17-24 Jan 2025

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadaram

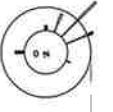

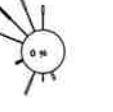
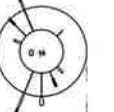
Monitor period : 17-24 Jan 2025

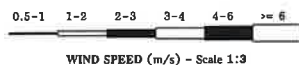
Wind Speed Model : Novalynx WS-25

Serial No : A5091

Wind Direction Model : Novalynx WS-25

Serial No : A5091

Time	17-18 Jan 2025		18-19 Jan 2025		19-20 Jan 2025		20-21 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	0.9	ENE	0.5	ENE	1.4	SSW	2.0	NNW
11:00 - 12:00	0.7	ESE	1.1	NW	1.6	SSE	0.6	NNW
12:00 - 13:00	1.8	ENE	1.6	E	2.1	NW	1.5	SSW
13:00 - 14:00	1.9	NE	0.7	NNE	0.7	NW	3.3	S
14:00 - 15:00	2.9	ENE	2.2	NNW	1.8	NNW	0.6	S
15:00 - 16:00	1.9	NE	1.9	ENE	0.6	NNW	0.6	SSW
16:00 - 17:00	1.0	NE	1.9	NE	0.7	NNW	1.7	SE
17:00 - 18:00	0.6	NE	1.9	SE	0.6	N	0.5	SSE
18:00 - 19:00	0.6	NNE	1.9	SSW	1.4	SSW	0.5	S
19:00 - 20:00	2.1	W	2.1	NNW	0.5	SSW	2.4	SSW
20:00 - 21:00	1.9	NE	1.3	SSW	0.7	S	0.5	SSW
21:00 - 22:00	0.5	NE	0.5	SSW	2.2	NW	0.6	S
22:00 - 23:00	0.7	NNE	0.6	SW	2.0	WSW	2.1	NW
23:00 - 24:00	0.7	NE	0.6	SSW	1.7	NNW	0.5	NW
00:00 - 01:00	2.5	N	0.9	NW	0.6	NW	0.8	NE
01:00 - 02:00	1.9	NE	0.6	NNW	0.7	WNW	0.8	NW
02:00 - 03:00	0.7	NE	0.7	NNW	0.6	WNW	1.2	SSW
03:00 - 04:00	0.5	ENE	1.5	SSW	0.5	WNW	0.5	SSW
04:00 - 05:00	0.5	ENE	0.5	SSW	0.5	WNW	0.7	NNW
05:00 - 06:00	2.0	W	1.4	WNW	0.7	NW	2.1	SSW
06:00 - 07:00	1.0	NNE	0.8	NW	0.6	NNW	0.8	NNW
07:00 - 08:00	1.1	NE	2.6	NNW	0.6	WNW	1.8	WNW
08:00 - 09:00	1.1	NNE	2.3	WNW	1.2	N	1.5	NNW
09:00 - 10:00	0.5	ENE	1.8	NNE	0.6	N	2.1	SSE
Wind Rose								
	20 %		12 %		12 %		12 %	




(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadaram

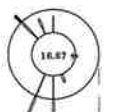
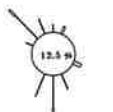

Monitor period : 17-24 Jan 2025

Wind Speed Model : Novalynx WS-25

Serial No : A5091

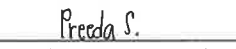
Wind Direction Model : Novalynx WS-25

Serial No : A5091

Time	21-22 Jan 2025		22-23 Jan 2025		23-24 Jan 2025	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.1	NW	0.4	NNW	4.0	ENE
11:00 - 12:00	0.7	NNW	3.0	ESE	0.8	SE
12:00 - 13:00	0.8	N	0.7	S	0.8	S
13:00 - 14:00	1.4	SSW	0.5	SSE	0.5	SSW
14:00 - 15:00	1.5	SSE	0.2	S	1.2	SSW
15:00 - 16:00	1.1	S	0.9	S	0.7	SSW
16:00 - 17:00	0.8	S	0.6	SSE	1.5	S
17:00 - 18:00	1.5	S	1.2	S	1.3	SSW
18:00 - 19:00	1.3	SSW	0.6	NW	0.7	S
19:00 - 20:00	0.5	SSW	0.3	S	0.0	NW
20:00 - 21:00	0.5	SSW	0.8	NW	0.4	NW
21:00 - 22:00	0.4	NNW	0.6	NW	0.9	WSW
22:00 - 23:00	1.1	SSW	0.5	NW	1.1	SW
23:00 - 24:00	0.3	NW	0.5	SSW	0.4	WSW
00:00 - 01:00	1.1	NW	0.5	WNW	1.2	SW
01:00 - 02:00	0.9	S	0.9	S	0.7	SSW
02:00 - 03:00	1.1	NW	0.5	S	1.2	NNW
03:00 - 04:00	0.6	NW	0.8	SSW	0.5	S
04:00 - 05:00	0.8	SSW	0.6	SSW	0.9	S
05:00 - 06:00	0.9	S	0.7	NNW	1.0	S
06:00 - 07:00	1.8	NNW	1.3	NNE	0.5	S
07:00 - 08:00	0.7	N	0.5	NNW	0.7	WSW
08:00 - 09:00	0.3	NE	1.3	NW	0.8	SE
09:00 - 10:00	0.3	NNE	0.7	N	0.1	WSW
Wind Rose						
	12 %		12 %		12 %	




(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากแหล่งกำเนิด



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : (662) 959-3600 FAX : (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Furnace (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 27-28/01/2025
REPORT DATE	: 30/01/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Annealing Furnace	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 43.0 m	Gas Velocity	: 8.7 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 596 Ncu.m./min
Temperature	: 185 °C	Excess Oxygen	: 9.9 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		9.9%O ₂	7.0%O ₂	7.0%O ₂	
Total Suspended Particulate	mg/Nm ³	3.33	4.22	10 ^{2/} /120 ^{3/} /320 ^{4/}	US. EPA Method 5

Pornnapa Budthum

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-0-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ^{3/} Emission Standard in Notification of the Ministry of Science, Technology and Environment for Steel Industry (New Source), B.E.2544 (2001).

6. ^{4/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : (662) 959-3600 FAX : (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Furnace (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 29/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Annealing Furnace	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 43.0 m	Gas Velocity	: 8.7 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 596 Ncu.m./min
Temperature	: 185 °C	Excess Oxygen	: 9.9 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		9.9%O ₂	7.0%O ₂	7.0%O ₂	
Sulfur Dioxide (SO ₂)	mg/Nm ³	ND (<5.0)	ND (<6.3)	30 ^{2/} /2,094 ^{3/} /157 ^{4/}	US. EPA Method 6

Pornnapa Budthum

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-0-0010

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7. ND means non-detectable.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Furnace (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Annealing Furnace	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 43.0 m	Gas Velocity	: 8.7 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 596 Ncu.m./min
Temperature	: 185 °C	Excess Oxygen	: 9.9 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD ^{2/}	REFERENCE
		9.9%O ₂	7.0%O ₂	7.0%O ₂	
Oxide of Nitrogen (NO _x)	mg/Nm ³	33.52	42.40	300 ^{2/} /339 ^{3/} /376 ^{4/}	US. EPA Method 7

Bongsa Puthum.
(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-ก-0018

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 7-239-ก-0010

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บริษัท ซีคอต จำกัด

SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : (662) 959-3600 FAX : (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Boiler (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 27-28/01/2025
REPORT DATE	: 30/01/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 20.0 m	Gas Velocity	: 4.3 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 184 Ncu.m./min
Temperature	: 81.8 °C	Excess Oxygen	: 9.7 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE
		9.7%O ₂	7.0%O ₂	7.0%O ₂	
Total Suspended Particulate	mg/Nm ³	1.82	2.26	10 ^{2/} /120 ^{3/} /320 ^{4/}	US. EPA Method 5

Bongsa Puthum.
(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-ก-0018

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 7-239-ก-0010

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6. ^{4/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Boiler (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 29/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 20.0 m	Gas Velocity	: 4.3 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 184 Ncu.m./min
Temperature	: 81.8 °C	Excess Oxygen	: 9.7 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE
		9.7%O ₂	7.0%O ₂	7.0%O ₂	METHOD
Sulfur Dioxide (SO ₂)	mg/Nm ³	ND (<5.0)	ND (<6.2)	30 ^{2/} /2,094 ^{3/} /157 ^{4/}	US. EPA Method 6

Pornapa Budthum

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-0-0010

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SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Boiler (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Boiler	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 20.0 m	Gas Velocity	: 4.3 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 184 Ncu.m./min
Temperature	: 81.8 °C	Excess Oxygen	: 9.7 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE
		9.7%O ₂	7.0%O ₂	7.0%O ₂	METHOD
Oxide of Nitrogen (NO _x)	mg/Nm ³	37.96	47.28	300 ^{2/} /339 ^{3/} /376 ^{4/}	US. EPA Method 7

Pornapa Budthum

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-0-0010

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บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Cleaning (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 27-28/01/2025
REPORT DATE	: 30/01/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Cleaning	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Process	FUEL TYPE	: *

STACK DESCRIPTION

Height	: 44.8	m	Gas Velocity	: 5.5	m/s
Diameter	: 1.1	m	Flow Rate ^{1/}	: 295	Ncu.m./min
Temperature	: 35.0	°C	Excess Oxygen	: 20.6	%

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	1.74	30 ^{2/} /400 ^{3/}	US. EPA Method 5

Bongpa Puthum

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-0-0018

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-0-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ^{3/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Cleaning (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24-30/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Cleaning	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Process	FUEL TYPE	: *

STACK DESCRIPTION

Height	: 44.8	m	Gas Velocity	: 5.5	m/s
Diameter	: 1.1	m	Flow Rate ^{1/}	: 295	Ncu.m./min
Temperature	: 35.0	°C	Excess Oxygen	: 20.6	%

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Sodium Hydroxide (NaOH)	mg/Nm ³	ND (<0.005)	8.66	Modify US. EPA Method 29

Krisana Chanthoom

(Miss Krisana Chanthoom)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ND means non-detectable.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/SKP (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 27-28/01/2025
REPORT DATE : 30/01/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Skin Pass SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : *

STACK DESCRIPTION

Height : 44.5 m Gas Velocity : 16.3 m/s
Diameter : 1.2 m Flow Rate^{1/} : 924 Nm³/min
Temperature : 34.3 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	1.75	30 ^{2/} /400 ^{3/}	US. EPA Method 5

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-ก-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ^{3/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/Coater&Oven (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 27-28/01/2025
REPORT DATE : 30/01/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Coater&Oven SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : *

STACK DESCRIPTION

Height : 50.0 m Gas Velocity : 10.3 m/s
Diameter : 0.8 m Flow Rate^{1/} : 302 Nm³/min
Temperature : 30.0 °C Excess Oxygen : 20.7 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	0.79	30 ^{2/} /400 ^{3/}	US. EPA Method 5

(Miss Pornnapa Budthum)

Analyst

REG.NO.7-239-ก-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ^{3/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Coater&Oven (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24-30/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Coater&Oven	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Process	FUEL TYPE	: "

STACK DESCRIPTION

Height	: 50.0	m	Gas Velocity	: 10.3	m/s
Diameter	: 0.8	m	Flow Rate ^{1/}	: 302	Ncu.m./min
Temperature	: 30.0	°C	Excess Oxygen	: 20.7	%

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Chromium	mg/Nm ³	ND (<0.008)	0.5	US. EPA Method 29


(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-0-0017


(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ND means non-detectable.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 225012-Stk(Cer)/Chromium Plating (Jan25)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/01/2025
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 29/01/2025
REPORT DATE	: 01/02/2025	SAMPLE CONDITION	: Normal
STACK LOCATION	: Chromium Plating	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Process	FUEL TYPE	: "

STACK DESCRIPTION

Height	: 8.5	m	Gas Velocity	: 7.1	m/s
Diameter	: 0.8	m	Flow Rate ^{1/}	: 199.6	Ncu.m./min
Temperature	: 31.3	°C	Excess Oxygen	: 20.6	%

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Sulfur Dioxide (SO ₂)	ppm	ND (<1.9)	9.2 ^{2/} /500 ^{3/}	US. EPA Method 6


(Miss Pornnapa Budthum)

Analyst

REG. NO. 7-239-0-0018


(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

5. ^{3/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).

6. ND means non-detectable.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/Chromium Plating (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 24-30/01/2025
REPORT DATE : 01/02/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Chromium Plating SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : -

STACK DESCRIPTION

Height : 8.5 m Gas Velocity : 7.1 m/s
Diameter : 0.8 m Flow Rate^{1/} : 199.6 Ncu.m./min
Temperature : 31.3 °C Excess Oxygen : 20.6 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Chromium (Cr)	mg/Nm ³	ND (<0.008)	0.084	US. EPA Method 29


(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-9-0017


(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-R-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/Pot Roll (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE¹ : 24-30/01/2025
REPORT DATE : 01/02/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Pot Roll Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : -

STACK DESCRIPTION

Height : 20.0 m Gas Velocity : 5.9 m/s
Diameter : 0.7 m Flow Rate^{1/} : 122.2 Ncu.m./min
Temperature : 46.0 °C Excess Oxygen : 20.8 %

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Sodium Hydroxide (NaOH)	mg/Nm ³	ND (<0.005)	0.03	Modify US. EPA Method 29


(Miss Krisana Chanthoom)

Analyst


(Miss Narisa Poowasanpetch)

Technical Management Team

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/Pot Roll (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 29/01/2025
REPORT DATE : 01/02/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Pot Roll Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : -

STACK DESCRIPTION

Height : 20.0 m Gas Velocity : 5.9 m/s
Diameter : 0.7 m Flow Rate^{1/} : 122.2 Ncu.m./min
Temperature : 46.0 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Phosphoric acid (H ₃ PO ₄)	mg/Nm ³	ND (<0.04)	0.16	Ion Chromatography

(Miss Pornnapa Budthum)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 225012-Stk(Cer)/Pot Roll (Jan25)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/01/2025
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 27/01/2025
REPORT DATE : 01/02/2025 SAMPLE CONDITION : Normal
STACK LOCATION : Pot Roll Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : -

STACK DESCRIPTION

Height : 20.0 m Gas Velocity : 5.9 m/s
Diameter : 0.7 m Flow Rate^{1/} : 122.2 Ncu.m./min
Temperature : 46.0 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Hydrogen Chloride (HCl)	mg/Nm ³	0.05	0.16	US. EPA Method 26

(Miss Janista Kui-on)

Analyst

REG.NO.7-239-ก-0023

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-0010

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3. ^{1/} At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. ^{2/} Emission standard @ actual O₂ according to EIA report.

ใบรับรองผลการตรวจวัดระดับเสียง



Noise Monitoring Result : Community Noise MTR-POSCO

Location : East Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G302740
Site Operator : Mr. Siwanon Kulawong *

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	Equivalent Sound Pressure Level (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	60.8	45.8	53.5	59.7	59.5	60.1	61.0
15:00 - 16:00	60.1	47.8	45.1	59.7	58.3	61.6	64.7
16:00 - 17:00	52.1	47.6	45.6	60.0	61.6	61.6	60.1
17:00 - 18:00	48.9	48.3	45.7	57.6	56.4	55.4	59.8
18:00 - 19:00	49.2	53.4	46.2	59.8	60.7	57.4	63.6
19:00 - 20:00	49.6	53.7	46.7	62.1	60.5	58.3	64.0
20:00 - 21:00	49.1	56.7	48.2	53.8	60.1	61.2	57.0
21:00 - 22:00	48.2	59.4	47.0	55.5	59.2	61.6	63.9
22:00 - 23:00	47.7	62.6	46.6	50.9	56.0	47.7	57.3
23:00 - 00:00	47.3	48.3	45.6	51.0	51.2	47.7	47.0
00:00 - 01:00	46.3	47.8	44.6	50.5	48.6	47.8	47.5
01:00 - 02:00	47.0	47.1	44.6	50.2	49.2	48.0	47.4
02:00 - 03:00	47.4	46.3	44.4	48.5	48.2	48.2	47.4
03:00 - 04:00	46.8	46.2	44.4	47.8	48.7	48.5	47.3
04:00 - 05:00	46.9	46.1	44.2	48.1	48.2	49.9	47.5
05:00 - 06:00	47.9	46.7	44.9	48.0	50.1	49.2	48.8
06:00 - 07:00	47.0	49.3	47.7	48.5	50.3	51.7	47.0
07:00 - 08:00	49.7	51.0	51.5	52.3	49.9	50.6	52.5
08:00 - 09:00	48.2	58.3	54.0	59.9	59.7	55.7	53.7
09:00 - 10:00	47.5	62.7	58.6	60.8	63.3	57.8	60.3
10:00 - 11:00	51.5	63.5	58.4	60.8	64.9	61.3	62.6
11:00 - 12:00	47.7	60.1	61.7	61.1	61.2	58.1	64.2
12:00 - 13:00	46.7	51.5	54.5	51.5	55.9	47.2	59.3
13:00 - 14:00	44.9	60.0	62.5	63.0	62.4	58.2	58.1

Leq(24)*	51.9	56.7	54.1	57.8	58.7	57.3	59.7
Ldn	55.2	61.2	55.7	59.5	60.6	59.0	61.1
Lmax **	84.4	89.2	91.5	91.7	91.8	93.9	95.8

Standard-24Hr 70 dB(A)
Standard-Max 115 dB(A)

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : East Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G302740
Site Operator : Mr. Siwanon Kulawong *

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	L90 (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	50.4	43.4	43.3	47.5	46.4	46.2	48.9
15:00 - 16:00	48.2	44.3	43.3	50.0	46.7	49.5	54.3
16:00 - 17:00	46.2	44.3	43.0	47.7	48.5	49.0	47.6
17:00 - 18:00	46.4	45.4	43.4	46.6	46.4	46.3	45.1
18:00 - 19:00	46.0	46.5	43.7	48.2	47.0	47.6	49.0
19:00 - 20:00	46.5	46.7	45.4	48.3	50.7	48.7	51.6
20:00 - 21:00	47.2	50.0	46.4	47.6	47.9	51.6	49.5
21:00 - 22:00	47.4	48.8	45.7	48.1	48.5	48.3	57.3
22:00 - 23:00	46.5	48.1	45.1	46.9	49.7	46.5	46.0
23:00 - 00:00	46.2	47.0	43.9	47.6	48.9	46.2	45.5
00:00 - 01:00	45.2	46.6	42.9	48.8	47.0	46.5	45.7
01:00 - 02:00	45.5	45.6	43.2	48.1	47.7	47.0	46.2
02:00 - 03:00	45.8	45.5	43.2	47.4	47.2	47.4	46.4
03:00 - 04:00	46.0	45.3	43.0	46.5	47.2	47.3	46.3
04:00 - 05:00	46.1	45.1	43.0	46.7	46.5	46.7	46.4
05:00 - 06:00	46.0	44.4	43.2	46.3	47.6	46.2	47.6
06:00 - 07:00	45.4	45.2	44.9	47.0	48.1	45.1	45.8
07:00 - 08:00	47.6	47.9	48.4	50.1	47.0	47.4	48.3
08:00 - 09:00	46.1	46.6	46.2	46.5	45.4	45.8	45.0
09:00 - 10:00	45.7	48.5	47.5	45.9	47.3	44.8	46.3
10:00 - 11:00	46.0	47.0	44.8	46.5	51.0	45.3	52.1
11:00 - 12:00	45.0	44.4	44.6	48.1	45.1	44.7	55.7
12:00 - 13:00	43.4	41.2	42.6	45.1	51.8	42.3	41.8
13:00 - 14:00	43.2	45.0	48.3	51.4	47.9	44.1	45.4

L90(avg)*	46.4	46.4	44.9	47.9	48.1	47.1	50.0
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Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : South Fence	Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162C	Serial No : G301029
Site Operator : Mr. Siwanon Kulawong	.

Calibrator Model : Cirrus CR:515	Serial No : 94296
Calibration Ref dB(A) : 94.0	Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012	

Time	Equivalent Sound Pressure Level (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	56.0	51.8	52.3	53.8	53.5	56.2	54.6
15:00 - 16:00	52.6	52.0	52.0	55.0	53.9	60.7	55.3
16:00 - 17:00	52.3	51.7	52.4	55.6	54.6	55.9	56.0
17:00 - 18:00	51.9	52.3	53.1	54.0	54.0	55.0	55.3
18:00 - 19:00	52.8	53.3	51.9	56.0	54.1	54.4	54.3
19:00 - 20:00	53.5	53.1	52.1	56.4	55.1	56.1	55.2
20:00 - 21:00	54.5	53.6	52.5	54.8	56.1	56.9	53.7
21:00 - 22:00	53.5	52.8	52.4	55.7	54.5	55.8	54.3
22:00 - 23:00	53.0	52.9	52.2	54.8	55.3	54.2	53.9
23:00 - 00:00	52.7	53.1	52.0	54.6	54.4	53.6	52.8
00:00 - 01:00	52.4	52.5	52.3	54.0	52.9	53.6	52.8
01:00 - 02:00	52.1	52.5	52.8	53.7	53.0	53.8	53.4
02:00 - 03:00	52.1	52.4	52.6	54.4	52.8	53.9	53.6
03:00 - 04:00	51.8	52.9	52.2	54.1	53.4	54.5	53.9
04:00 - 05:00	52.3	52.4	52.1	54.3	53.1	54.4	54.7
05:00 - 06:00	52.2	52.6	52.3	54.2	54.1	53.7	55.0
06:00 - 07:00	53.6	53.0	52.9	55.6	55.3	54.0	54.7
07:00 - 08:00	53.3	52.8	53.8	54.2	54.7	53.9	59.5
08:00 - 09:00	52.6	53.3	53.2	54.6	55.5	55.6	54.2
09:00 - 10:00	52.6	53.1	54.5	54.8	55.2	54.0	54.5
10:00 - 11:00	52.3	53.5	54.4	53.8	55.1	54.6	54.1
11:00 - 12:00	52.2	52.4	54.1	53.1	54.8	53.3	54.1
12:00 - 13:00	51.6	51.6	54.0	52.6	53.8	53.9	52.6
13:00 - 14:00	51.7	52.3	53.5	53.5	54.8	54.3	53.5
Leq(24)*	52.9	52.7	52.9	54.6	54.4	55.2	54.7
Ldn	59.0	59.1	58.9	60.9	60.4	60.7	60.5
Lmax **	72.2	77.2	79.5	77.8	87.5	87.1	84.9
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : South Fence	Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162C	Serial No : G301029
Site Operator : Mr. Siwanon Kulawong	.

Calibrator Model : Cirrus CR:515	Serial No : 94296
Calibration Ref dB(A) : 94.0	Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012	

Time	L90 (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	52.6	50.9	51.0	52.0	51.5	53.2	51.9
15:00 - 16:00	51.5	51.1	51.0	52.2	51.8	53.7	52.7
16:00 - 17:00	51.5	50.9	51.3	52.5	52.1	53.4	53.0
17:00 - 18:00	51.0	51.4	51.4	52.7	52.2	53.1	52.7
18:00 - 19:00	51.9	52.4	51.2	53.4	52.9	53.1	52.9
19:00 - 20:00	52.6	52.2	51.4	53.8	53.2	54.1	52.9
20:00 - 21:00	53.0	52.6	51.8	53.6	53.2	54.8	52.7
21:00 - 22:00	52.1	52.0	51.7	53.7	53.0	53.8	52.8
22:00 - 23:00	51.9	52.1	51.5	53.5	53.3	53.5	52.5
23:00 - 00:00	51.9	52.2	51.3	53.3	53.4	53.0	51.9
00:00 - 01:00	51.6	51.9	51.4	53.4	51.9	53.0	52.0
01:00 - 02:00	51.4	51.9	51.9	53.1	52.3	53.1	52.8
02:00 - 03:00	51.4	51.8	51.7	53.6	52.2	53.3	53.0
03:00 - 04:00	51.1	51.8	51.4	53.2	52.5	53.9	53.2
04:00 - 05:00	51.5	51.8	51.5	53.7	52.4	53.8	53.6
05:00 - 06:00	51.3	51.9	51.6	53.3	53.0	53.0	53.8
06:00 - 07:00	52.1	52.1	52.0	54.1	54.2	53.1	53.3
07:00 - 08:00	52.3	52.0	52.1	53.0	53.0	52.5	53.4
08:00 - 09:00	51.0	51.6	52.2	52.5	52.8	52.3	52.7
09:00 - 10:00	51.2	51.4	52.6	52.3	52.9	52.0	52.8
10:00 - 11:00	51.3	51.5	51.7	51.7	53.1	51.6	52.4
11:00 - 12:00	51.0	51.0	51.3	50.9	52.4	51.2	52.0
12:00 - 13:00	50.7	50.7	52.1	50.5	52.3	52.6	51.7
13:00 - 14:00	50.9	51.0	51.5	51.2	52.6	51.3	52.2
L90(avg)*	51.7	51.7	51.6	52.9	52.7	53.1	52.7

Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : West Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162C Serial No : G301065
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	Equivalent Sound Pressure Level (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	54.7	51.0	50.8	54.8	54.1	54.1	55.3
15:00 - 16:00	53.2	50.7	50.4	56.1	55.5	58.4	57.5
16:00 - 17:00	53.2	50.0	51.2	56.2	56.7	57.7	56.9
17:00 - 18:00	51.7	50.9	51.4	56.1	56.1	57.7	55.5
18:00 - 19:00	52.6	52.4	50.9	56.4	55.5	56.1	55.9
19:00 - 20:00	54.2	52.7	50.5	56.8	55.8	56.1	55.6
20:00 - 21:00	55.8	55.6	52.6	57.4	57.1	58.1	56.1
21:00 - 22:00	54.8	53.3	53.4	56.9	56.2	57.2	57.5
22:00 - 23:00	53.3	53.2	52.8	55.7	56.3	56.4	57.6
23:00 - 00:00	52.4	53.7	52.1	55.9	56.0	55.9	55.9
00:00 - 01:00	52.4	53.4	51.8	55.7	53.9	55.0	54.4
01:00 - 02:00	51.8	52.7	52.5	55.7	55.4	56.6	55.2
02:00 - 03:00	51.9	51.5	51.5	55.4	54.6	55.1	54.9
03:00 - 04:00	51.2	51.2	51.3	55.4	54.3	55.2	55.6
04:00 - 05:00	52.6	51.6	51.8	55.1	54.2	54.9	56.4
05:00 - 06:00	51.9	51.2	51.5	55.7	56.0	54.5	55.7
06:00 - 07:00	55.5	53.6	53.6	58.0	57.6	56.7	56.1
07:00 - 08:00	54.1	52.9	53.6	57.2	56.2	56.4	57.4
08:00 - 09:00	52.3	51.7	52.7	54.6	54.3	55.8	60.3
09:00 - 10:00	52.6	50.1	56.4	53.3	54.7	56.7	56.5
10:00 - 11:00	51.7	50.8	52.5	53.2	52.9	54.4	55.0
11:00 - 12:00	52.2	50.4	53.7	53.5	53.3	60.2	54.0
12:00 - 13:00	50.4	49.9	51.3	51.6	51.9	50.9	52.0
13:00 - 14:00	52.1	51.0	54.2	54.4	53.1	54.1	71.7
Leq(24)*	53.1	52.1	52.5	55.7	55.3	56.4	60.1
Ldn	59.2	58.9	58.7	62.3	61.9	62.2	63.7
Lmax **	74.0	70.8	72.7	77.0	71.2	80.1	89.8
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : West Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162C Serial No : G301065
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	L90 (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	51.9	49.1	48.6	52.4	52.4	51.0	53.3
15:00 - 16:00	51.1	48.8	48.5	54.0	53.8	54.9	53.9
16:00 - 17:00	51.6	47.8	49.3	54.2	54.8	55.2	54.5
17:00 - 18:00	49.7	49.0	49.2	54.1	54.4	54.3	53.9
18:00 - 19:00	51.4	50.2	48.2	54.7	54.0	54.2	53.8
19:00 - 20:00	52.4	50.8	48.8	55.0	54.2	54.3	53.9
20:00 - 21:00	52.9	53.5	50.4	55.3	54.8	55.7	54.0
21:00 - 22:00	51.6	51.9	51.5	54.9	54.0	54.5	54.1
22:00 - 23:00	51.2	51.8	51.4	53.6	55.0	53.2	53.5
23:00 - 00:00	51.1	51.9	50.6	54.0	54.8	52.5	52.8
00:00 - 01:00	50.8	51.5	49.8	54.0	52.7	53.0	52.2
01:00 - 02:00	50.5	51.4	49.9	54.0	54.2	54.3	53.7
02:00 - 03:00	50.6	50.5	49.5	54.0	53.6	54.0	54.1
03:00 - 04:00	50.0	50.0	49.7	53.7	53.4	54.3	54.7
04:00 - 05:00	50.6	49.0	50.2	54.0	53.4	54.0	55.0
05:00 - 06:00	50.4	49.1	49.0	54.1	54.0	53.1	54.1
06:00 - 07:00	51.5	49.1	51.0	56.5	55.9	55.0	54.8
07:00 - 08:00	52.0	49.8	51.8	55.0	53.9	54.2	55.8
08:00 - 09:00	50.1	49.3	50.8	52.8	52.4	52.6	53.6
09:00 - 10:00	50.3	48.5	50.7	51.1	51.6	51.8	52.0
10:00 - 11:00	49.7	48.4	50.0	50.5	50.9	51.3	51.5
11:00 - 12:00	49.4	48.5	51.1	50.0	50.2	51.0	51.3
12:00 - 13:00	48.8	48.1	49.5	49.4	50.1	49.2	49.9
13:00 - 14:00	49.4	48.7	52.0	51.3	50.9	50.8	51.8
L90(avg)*	50.9	50.1	50.2	53.8	53.6	53.5	53.6

Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : North Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G302741
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	Equivalent Sound Pressure Level (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	66.4	66.2	66.0	65.9	65.9	64.6	64.5
15:00 - 16:00	66.6	66.3	66.2	66.1	66.2	64.7	64.3
16:00 - 17:00	66.6	66.1	66.1	66.3	66.1	64.8	64.4
17:00 - 18:00	66.8	66.5	66.3	66.4	66.3	64.5	64.5
18:00 - 19:00	66.7	66.6	66.5	66.7	66.5	64.5	64.5
19:00 - 20:00	66.5	66.4	66.5	66.5	66.4	64.0	64.2
20:00 - 21:00	66.3	66.5	66.6	66.3	66.1	64.1	64.1
21:00 - 22:00	66.7	66.8	66.5	66.7	66.3	64.3	63.9
22:00 - 23:00	66.4	67.7	66.2	66.6	66.4	64.3	64.1
23:00 - 00:00	66.1	66.6	66.1	66.6	66.4	64.3	64.1
00:00 - 01:00	66.2	66.4	66.1	66.6	66.2	65.1	64.8
01:00 - 02:00	66.1	66.1	66.1	66.4	66.4	65.6	64.6
02:00 - 03:00	66.2	65.9	66.1	66.5	66.4	65.7	64.4
03:00 - 04:00	66.3	65.9	66.0	66.4	66.6	65.6	64.4
04:00 - 05:00	66.3	66.2	66.0	66.3	66.8	65.8	64.4
05:00 - 06:00	66.3	66.1	66.3	66.5	66.9	65.8	64.7
06:00 - 07:00	66.2	66.0	66.1	66.6	66.5	65.4	64.4
07:00 - 08:00	66.2	66.1	66.1	66.2	66.1	65.3	64.5
08:00 - 09:00	66.2	66.0	66.1	66.1	63.4	63.4	64.6
09:00 - 10:00	66.3	65.8	66.2	66.1	64.3	64.0	64.3
10:00 - 11:00	66.3	66.1	65.9	66.4	64.8	64.5	64.7
11:00 - 12:00	66.2	66.3	65.6	66.0	64.6	64.6	64.6
12:00 - 13:00	66.2	66.3	65.6	66.1	64.6	64.7	65.2
13:00 - 14:00	66.2	66.1	65.9	66.2	64.7	64.7	65.6
Leq(24)*	66.4	66.3	66.1	66.4	66.0	64.8	64.5
Ldn	72.7	72.8	72.5	72.9	72.8	71.6	70.9
Lmax **	86.2	83.5	86.2	87.8	80.7	76.9	85.0
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : North Fence Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G302741
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	L90 (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
14:00 - 15:00	65.8	65.6	65.4	65.3	65.3	63.9	63.9
15:00 - 16:00	65.9	65.7	65.5	65.5	65.6	64.1	63.8
16:00 - 17:00	66.0	65.7	65.6	65.7	65.6	64.2	63.9
17:00 - 18:00	66.2	65.9	65.8	65.8	65.9	64.2	64.1
18:00 - 19:00	66.2	66.2	66.1	66.2	66.1	64.0	64.1
19:00 - 20:00	65.9	66.0	66.1	66.1	65.9	63.6	63.9
20:00 - 21:00	65.8	66.2	66.2	66.0	65.8	63.6	63.8
21:00 - 22:00	66.1	66.3	66.1	66.3	66.0	63.8	63.4
22:00 - 23:00	65.8	66.4	65.8	66.3	66.1	64.0	63.4
23:00 - 00:00	65.6	66.1	65.7	66.3	66.2	63.9	63.6
00:00 - 01:00	65.8	65.9	65.7	66.3	65.8	64.6	64.1
01:00 - 02:00	65.7	65.6	65.6	66.1	66.1	65.1	64.2
02:00 - 03:00	65.8	65.6	65.6	66.2	66.1	65.3	64.1
03:00 - 04:00	65.9	65.6	65.6	66.1	66.3	65.3	64.1
04:00 - 05:00	65.9	65.8	65.7	66.0	66.4	65.5	64.1
05:00 - 06:00	65.9	65.7	65.8	66.0	66.4	65.4	64.4
06:00 - 07:00	65.8	65.6	65.8	66.2	66.2	65.0	64.0
07:00 - 08:00	65.7	65.6	65.7	65.6	63.3	64.3	64.1
08:00 - 09:00	65.8	65.5	65.4	65.5	62.7	62.8	63.9
09:00 - 10:00	65.8	65.3	65.5	65.6	63.6	63.3	63.8
10:00 - 11:00	65.8	65.5	65.3	65.5	64.2	64.0	64.3
11:00 - 12:00	65.7	65.7	65.2	65.5	64.1	64.1	64.2
12:00 - 13:00	65.7	65.8	65.2	65.6	64.1	64.1	64.4
13:00 - 14:00	65.7	65.5	65.3	65.5	64.1	64.1	63.9
L90(avg)*	65.8	65.8	65.7	65.9	65.5	64.3	64.0

Remark : * Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G301014
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	Equivalent Sound Pressure Level (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
12:00 - 13:00	63.3	62.3	63.5	61.4	60.8	60.6	64.8
13:00 - 14:00	62.0	62.8	62.4	61.2	60.9	61.6	61.3
14:00 - 15:00	61.3	62.3	62.9	61.3	60.5	62.3	61.7
15:00 - 16:00	61.6	62.0	63.7	61.7	62.2	61.7	61.8
16:00 - 17:00	62.6	63.2	62.1	62.2	61.0	62.6	60.9
17:00 - 18:00	64.5	64.8	62.9	63.2	63.0	62.0	63.7
18:00 - 19:00	63.7	66.0	62.4	62.0	61.8	61.6	62.6
19:00 - 20:00	63.1	68.0	63.1	63.1	62.5	63.8	61.9
20:00 - 21:00	64.0	70.3	63.3	64.0	64.3	61.7	63.4
21:00 - 22:00	63.0	71.0	62.1	60.1	60.2	59.7	60.1
22:00 - 23:00	61.1	71.0	59.4	58.9	58.9	59.0	58.6
23:00 - 00:00	58.6	71.1	58.0	56.4	58.0	57.9	57.4
00:00 - 01:00	58.2	70.4	59.0	58.0	56.9	57.4	56.4
01:00 - 02:00	57.0	64.1	57.1	56.4	55.5	55.4	55.4
02:00 - 03:00	55.7	58.8	54.5	55.1	54.6	55.4	54.3
03:00 - 04:00	55.8	57.8	55.4	55.8	54.7	55.1	53.9
04:00 - 05:00	56.1	56.4	56.7	55.8	55.3	56.2	55.1
05:00 - 06:00	59.3	59.5	57.2	58.7	57.9	59.3	58.6
06:00 - 07:00	61.1	60.8	61.6	62.2	61.5	61.8	61.4
07:00 - 08:00	65.2	63.7	66.5	65.6	65.3	64.1	65.3
08:00 - 09:00	65.3	64.3	64.9	64.3	64.3	63.6	64.0
09:00 - 10:00	63.6	63.2	64.0	64.8	62.0	63.1	63.4
10:00 - 11:00	64.2	62.9	62.7	62.7	63.5	62.3	63.1
11:00 - 12:00	63.4	62.9	62.3	61.3	62.2	63.2	61.5
Leq(24)*	62.3	66.2	62.1	61.6	61.3	61.2	61.5
Ldn	66.1	73.1	65.8	65.6	65.2	65.4	65.2
Lmax **	86.8	88.6	90.9	93.5	88.6	88.2	85.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 12:00-12:00

** Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor Period : 17-24 Jan 2025
SLM Model : Cirrus CR162B Serial No : G301014
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515 Serial No : 94296
Calibration Ref dB(A) : 94.0 Certified Date : 14 Feb 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : 13 Feb 2025
Cal Sheet No.: CR-515-2025-012

Time	L90 (dB(A))						
	17-18 Jan 2025	18-19 Jan 2025	19-20 Jan 2025	20-21 Jan 2025	21-22 Jan 2025	22-23 Jan 2025	23-24 Jan 2025
12:00 - 13:00	57.7	57.5	58.2	56.0	54.5	54.6	55.7
13:00 - 14:00	57.5	57.0	57.1	56.0	54.5	54.8	53.8
14:00 - 15:00	56.4	56.4	56.5	55.7	54.2	54.6	54.4
15:00 - 16:00	56.7	56.1	56.5	56.2	55.9	55.7	55.7
16:00 - 17:00	58.0	56.4	56.9	56.4	55.2	56.6	55.9
17:00 - 18:00	59.9	59.4	57.5	58.2	57.5	57.2	57.8
18:00 - 19:00	59.3	58.6	56.5	56.4	56.7	56.3	56.7
19:00 - 20:00	58.3	59.5	56.8	56.9	56.3	56.6	56.7
20:00 - 21:00	58.5	61.5	56.7	57.8	57.2	55.2	56.7
21:00 - 22:00	58.1	61.5	54.2	53.8	52.6	52.6	53.4
22:00 - 23:00	53.4	66.5	51.8	51.2	49.1	49.5	49.8
23:00 - 00:00	51.5	69.1	50.0	49.0	47.7	46.9	48.3
00:00 - 01:00	50.6	67.0	49.2	47.7	46.2	47.0	47.9
01:00 - 02:00	49.5	51.8	47.4	45.7	44.9	45.7	46.4
02:00 - 03:00	48.7	50.7	47.0	44.8	46.3	45.9	46.2
03:00 - 04:00	48.4	50.0	47.5	46.6	46.9	46.8	46.4
04:00 - 05:00	49.7	50.1	48.5	49.1	48.7	48.4	48.6
05:00 - 06:00	54.0	53.2	51.0	53.2	52.9	52.2	52.9
06:00 - 07:00	55.4	55.0	56.5	55.8	56.2	55.6	56.0
07:00 - 08:00	60.3	58.3	60.3	59.9	60.3	58.9	59.6
08:00 - 09:00	60.1	59.9	59.5	59.2	59.5	58.3	59.1
09:00 - 10:00	59.0	58.5	58.3	57.6	57.3	57.4	57.6
10:00 - 11:00	58.6	58.7	57.8	57.5	56.8	56.4	56.7
11:00 - 12:00	58.4	57.9	56.9	55.7	55.2	56.5	55.5
L90(avg)*	57.1	61.0	56.0	55.7	55.2	54.9	55.2

Remark : * Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

ใบรับรองผลการตรวจวัดคุณภาพน้ำ



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0117/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 23/01/2025 SAMPLING TIME : 11:05
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 24-29/01/2025
REPORT DATE : 30/01/2025 SITE OPERATOR : Mr.Sittichai Sawangwongchai
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_January

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				บ่อกักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Temperature	°C	2550 B	< 0.5	36.5	≤ 45
pH	-	4500-H ⁺ B	< 0.10	6.93	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,442	-
Total Dissolved Solids	mg/l	2540 C	< 25	834	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	12	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	25.0	≤ 500
COD	mg/l	5220 D	< 40.00	53.64	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.32	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0117/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 23/01/2025 SAMPLING TIME : 10:45
RECEIVED DATE : 24/01/2025 ANALYTICAL DATE : 24-27/01/2025
REPORT DATE : 30/01/2025 SITE OPERATOR : Mr.Sittichai Sawangwongchai
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_January

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				บ่อกักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B, Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0117/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 23/01/2025	SAMPLING TIME	: 11:05
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24-29/01/2025
REPORT DATE	: 30/01/2025	SITE OPERATOR	: Mr.Sittichai Sawangwongchai
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_January

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	8.73	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	936	-
Total Dissolved Solids	mg/l	2540 C	< 25	365	≤ 3,000

REFERENCE: STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0117/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 23/01/2025	SAMPLING TIME	: 11:05
RECEIVED DATE	: 24/01/2025	ANALYTICAL DATE	: 24-27/01/2025
REPORT DATE	: 30/01/2025	SITE OPERATOR	: Mr.Sittichai Sawangwongchai
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_January

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE: STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0310/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 18/02/2025 SAMPLING TIME : 09:14
RECEIVED DATE : 19/02/2025 ANALYTICAL DATE : 19-27/02/2025
REPORT DATE : 27/02/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งอุตสาหกรรม (Holding Pond)	STANDARD "
Temperature	°C	2550 B	< 0.5	34.2	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.04	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,770	-
Total Dissolved Solids	mg/l	2540 C	< 25	948	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	18	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	19.7	≤ 500
COD	mg/l	5220 D	< 40.00	67.91	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.48	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21ST ED. 2017 (AWWA-APHA-WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-R-0005

(Mrs. Araya Tippiaruk)

Technical Management Team

REG. NO. 7-239-R-0004

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0310/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 18/02/2025 SAMPLING TIME : 09:14
RECEIVED DATE : 19/02/2025 ANALYTICAL DATE : 19, 24/02/2025
REPORT DATE : 27/02/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งอุตสาหกรรม (Holding Pond)	STANDARD "
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21ST ED. 2017 (AWWA-APHA-WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-R-0005

(Mrs. Araya Tippiaruk)

Technical Management Team

REG. NO. 7-239-R-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0310/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/02/2025	SAMPLING TIME	: 14:00
RECEIVED DATE	: 19/02/2025	ANALYTICAL DATE	: 19-27/02/2025
REPORT DATE	: 27/02/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD ^{1/}
				จุดระบายน้ำ (Drain) ของระบบ	Wet Scrubber ปล่อง Coater&Oven	
pH	-	4500-H ⁺ B	< 0.10	7.31		5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	126		-
Total Dissolved Solids	mg/l	2540 C	< 25	< 25		≤ 3,000

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insom

(Miss Khemchuda Insom)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0310/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/02/2025	SAMPLING TIME	: 14:00
RECEIVED DATE	: 19/02/2025	ANALYTICAL DATE	: 19, 24/02/2025
REPORT DATE	: 27/02/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD ^{1/}
				จุดระบายน้ำ (Drain) ของระบบ	Wet Scrubber ปล่อง Coater&Oven	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND		≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B.Calculation	< 0.01	ND		≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insom

(Miss Khemchuda Insom)

Analyst

REG. NO. 2-239-ก-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0506/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 18/03/2025 SAMPLING TIME : 11:34
RECEIVED DATE : 19/03/2025 ANALYTICAL DATE : 19-25/03/2025
REPORT DATE : 25/03/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD "
				บ่อพักน้ำทิ้งอุตสาหกรรม (Holding Pond)	
Temperature	°C	2550 B	< 0.5	36.0	≤ 45
pH		4500-H ⁺ B	< 0.10	6.92	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,866	-
Total Dissolved Solids	mg/l	2540 C	< 25	1,064	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	13	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	28.2	≤ 500
COD	mg/l	5220 D	< 40.00	86.83	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.62	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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 5. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0506/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 18/03/2025 SAMPLING TIME : 11:34
RECEIVED DATE : 19/03/2025 ANALYTICAL DATE : 19-21/03/2025
REPORT DATE : 25/03/2025 SITE OPERATOR : Mr.Natthachai Chaiyakhot
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD "
				บ่อพักน้ำทิ้งอุตสาหกรรม (Holding Pond)	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0506/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/03/2025	SAMPLING TIME	: 13:40
RECEIVED DATE	: 19/03/2025	ANALYTICAL DATE	: 19-25/03/2025
REPORT DATE	: 25/03/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD ¹⁾
				จุดระบายน้ำ (Drain) ของระบบ	Wet Scrubber ปล่อง Coater&Oven	
pH	-	4500-H ⁺ B	< 0.10	8.44		5.5-9.0
Conductivity*	μS/cm	2510 B	< 1.0	107		-
Total Dissolved Solids	mg/l	2540 C	< 25	78		≤ 3,000

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/03/2025	SAMPLING TIME	: 13:40
RECEIVED DATE	: 19/03/2025	ANALYTICAL DATE	: 19-21/03/2025
REPORT DATE	: 25/03/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD ¹⁾
				จุดระบายน้ำ (Drain) ของระบบ	Wet Scrubber ปล่อง Coater&Oven	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND		≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND		≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0708/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 23/04/2025 SAMPLING TIME : 08:32
RECEIVED DATE : 24/04/2025 ANALYTICAL DATE : 24-30/04/2025
REPORT DATE : 30/04/2025 SITE OPERATOR : Miss Thipsuda Wannakran
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ¹⁾
Temperature	°C	2550 B	< 0.5	35.0	≤ 45
pH		4500-H ⁺ B	< 0.10	7.44	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,531	*
Total Dissolved Solids	mg/l	2540 C	< 25	858	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	13	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	19.3	≤ 500
COD	mg/l	5220 D	< 40.00	75.56	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.39	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-R-0005

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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RECEIVED DATE : 24/04/2025 ANALYTICAL DATE : 24-25/04/2025
REPORT DATE : 30/04/2025 SITE OPERATOR : Miss Thipsuda Wannakran
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ¹⁾
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B, Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA APHA WEF)

Khemchuda Insorn

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REG. NO. 2-239-R-0005

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0708/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 23/04/2025	SAMPLING TIME	: 08:54
RECEIVED DATE	: 24/04/2025	ANALYTICAL DATE	: 24-30/04/2025
REPORT DATE	: 30/04/2025	SITE OPERATOR	: Miss Thipsuda Wannakran
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	8.58	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	391	-
Total Dissolved Solids	mg/l	2540 C	< 25	86	≤ 3,000

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA,APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-R-0005

(Mrs. Araya Tipparuk)

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RECEIVED DATE	: 24/04/2025	ANALYTICAL DATE	: 24-25/04/2025
REPORT DATE	: 30/04/2025	SITE OPERATOR	: Miss Thipsuda Wannakran
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23rd ED. 2017 (AWWA,APHA, WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 0894/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 16/05/2025 SAMPLING TIME : 13.46
RECEIVED DATE : 17/05/2025 ANALYTICAL DATE : 17-23/05/2025
REPORT DATE : 24/05/2025 SITE OPERATOR : Mr. Baworn Deechaiya
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_May

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ¹⁾
		METHODS	(non-detectable)	บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Temperature	°C	2550 B	< 0.5	32.0	≤ 45
pH		4500-H ⁺ B	< 0.10	6.68	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,102	*
Total Dissolved Solids	mg/l	2540 C	< 25	622	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	14	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	18.8	≤ 500
COD	mg/l	5220 D	< 40.00	70.00	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.83	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

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REPORT DATE : 24/05/2025 SITE OPERATOR : Mr. Baworn Deechaiya
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_May

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ¹⁾
		METHODS	(non-detectable)	บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B, Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0894/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 16/05/2025	SAMPLING TIME	: 14:01
RECEIVED DATE	: 17/05/2025	ANALYTICAL DATE	: 17-23/05/2025
REPORT DATE	: 24/05/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
pH		4500-H ⁺ B	< 0.10	8.16	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	229	
Total Dissolved Solids	mg/l	2540 C	< 25	80	≤ 3,000

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, A.P.H.A. WEF)

(Miss Khemchuda Insorn)

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REPORT DATE	: 24/05/2025	SITE OPERATOR	: Mr. Baworn Deechaiya
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_WW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B, Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, A.P.H.A. WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 1128/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 17/06/2025 SAMPLING TIME : 08.57
RECEIVED DATE : 18/06/2025 ANALYTICAL DATE : 18-24/06/2025
REPORT DATE : 25/06/2025 SITE OPERATOR : Mr.Rommadon Lemmad
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Temperature	°C	2550 B	< 0.5	35.9	≤ 45
pH		4500-H ⁺ B	< 0.10	7.15	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	1,072	-
Total Dissolved Solids	mg/l	2540 C	< 25	722	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	16	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	39.0	≤ 500
COD	mg/l	5220 D	< 40.00	70.41	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 2.0	ND	≤ 10
Zinc	mg/l	3120 B	< 0.003	0.56	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. ^{1/} Notification of the Industrial Estate Authority of Thailand No. 029, B.E.2567 (2024).

4. * Not registered with the Department of Industrial Works.

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 1128/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
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RECEIVED DATE : 18/06/2025 ANALYTICAL DATE : 18-21/06/2025
REPORT DATE : 25/06/2025 SITE OPERATOR : Mr.Rommadon Lemmad
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD ^{1/}
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 1128/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 17/06/2025 SAMPLING TIME : 09:12
RECEIVED DATE : 18/06/2025 ANALYTICAL DATE : 18-24/06/2025
REPORT DATE : 25/06/2025 SITE OPERATOR : Mr.Rommadon Lemmad
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_June

PARAMETER	UNIT	ANALYSIS	ND	STATION	
		METHODS	(non-detectable)	จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.71	5.5-9.0
Conductivity*	µS/cm	2510 B	< 1.0	337	-
Total Dissolved Solids	mg/l	2540 C	< 25	198	≤ 3,000

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co., Ltd. REQUEST SERVICE No. : 1128/68
SAMPLING BY : SECOT Co., Ltd. SAMPLING METHOD : Grab
SAMPLING DATE : 17/06/2025 SAMPLING TIME : 09:12
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REPORT DATE : 25/06/2025 SITE OPERATOR : Mr.Rommadon Lemmad
SAMPLE CONDITION : Normal FILE CODE : 225012_WW_June

PARAMETER	UNIT	ANALYSIS	ND	STATION	
		METHODS	(non-detectable)	จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber ปล่อง Coater&Oven	STANDARD ^{1/}
Chromium Hexavalent (Cr ⁶⁺)	mg/l	3500-Cr B	< 0.01	ND	≤ 0.25
Chromium Trivalent (Cr ³⁺)	mg/l	3120 B/3500-Cr B,Calculation	< 0.01	ND	≤ 0.75

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0311/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 18/02/2025	SAMPLING TIME	: 10:04-10:28
RECEIVED DATE	: 19/02/2025	ANALYTICAL DATE	: 19-27/02/2025
REPORT DATE	: 27/02/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_GW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				GW 1	STANDARD ^{1/}
Temperature*	°C	2550 B	< 0.5	30.2	-
pH	-	4500-H ⁺ B	< 0.10	6.52	-
Total Dissolved Solids*	mg/l	2540 C	< 2.5	240	-
Total Suspended Solids*	mg/l	2540 D	< 2.5	690	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0463	≤ 0.1
Total Chromium (T-Cr)	mg/l	3120 B	< 0.001	0.03	≤ 6.0
Copper (Cu)*	mg/l	3120 B	< 0.001	0.03	-
Lead (Pb)	mg/l	3120 B	< 0.008	0.20	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	0.02	≤ 5.0
Total Coliform Bacteria*	MPN/100 ml	9221 B	< 1.8	< 1.8	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA,APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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 3. ^{1/} Notification of the Ministry of Industry, B.E.2559 (2016).
 4. * Not registered with the Department of Industrial Works.
 5. - Not available.



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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0311/68
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 18/02/2025	SAMPLING TIME	: 09:30-09:44
RECEIVED DATE	: 19/02/2025	ANALYTICAL DATE	: 19-27/02/2025
REPORT DATE	: 27/02/2025	SITE OPERATOR	: Mr.Natthachai Chaiyakhot
SAMPLE CONDITION	: Normal	FILE CODE	: 225012_GW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				GW 2	STANDARD ^{1/}
Temperature*	°C	2550 B	< 0.5	29.9	-
pH	-	4500-H ⁺ B	< 0.10	6.47	-
Total Dissolved Solids*	mg/l	2540 C	< 2.5	222	-
Total Suspended Solids*	mg/l	2540 D	< 2.5	456	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.1542	≤ 0.1
Total Chromium (T-Cr)	mg/l	3120 B	< 0.001	< 0.01	≤ 6.0
Copper (Cu)*	mg/l	3120 B	< 0.001	ND	-
Lead (Pb)	mg/l	3120 B	< 0.008	0.07	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	< 0.01	≤ 5.0
Total Coliform Bacteria	MPN/100 ml	9221 B	< 1.8	< 1.8	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21st ED. 2017 (AWWA,APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

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(Mrs. Araya Tipparuk)

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
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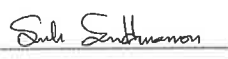
HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-225012-Cer-Heat/Apr25
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 23/04/2025 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210177
MEASUREMENT LOCATION : Process Area SITE OPERATION : Miss Wiraya Patchimboon

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	WBGT
Annealing Furnace	10.00-10.30	29.9	36.6	38.6	32.5	33.2	34.0
	10.30-11.00	30.4	37.7	39.5	33.1		
	11.00-11.30	30.8	38.6	40.1	33.6		
	11.30-12.00	30.7	38.4	40.6	33.6		
Galvannealing Furnace	13.30-14.00	28.1	36.4	36.8	30.7	31.2	34.0
	14.00-14.30	28.9	36.9	37.5	31.5		
	14.30-15.00	28.7	35.9	37.2	31.3		
	15.00-15.30	29.0	35.8	36.8	31.3		


(Miss Katesarin Vorradetwittaya)

Environmental Scientist


(Miss Sununta Sirawuttinanon)

Technical Management Team

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3. * WBGT Standard was notified by the Ministerial Regulations of Labour, B.E.2559 (2016).

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

5. Work Load : Light work load = 34.0 °C, Moderate work load = 32.0 °C and Heavy work load = 30.0 °C



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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-225012-Cer-Heat/Apr25
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 23/04/2025 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210172
MEASUREMENT LOCATION : Process Area SITE OPERATION : Miss Wiraya Patchimboon

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	WBGT
Coater&Oven	10.04-10.34	32.1	34.1	35.5	33.1	33.4	34.0
	10.34-11.04	32.8	34.5	35.4	33.6		
	11.04-11.34	32.5	34.7	36.1	33.6		
	11.34-12.04	31.1	34.0	38.2	33.2		
Boiler	13.40-14.10	28.8	33.3	34.2	30.4	31.4	34.0
	14.10-14.40	29.1	33.6	34.8	30.8		
	14.40-15.10	29.9	34.9	36.2	31.8		
	15.10-15.40	30.4	36.5	37.5	32.5		


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(Miss Sununta Sirawuttinanon)

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-225012-Cer-Heat/Apr25
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : WBGT Meter
MEASUREMENT DATE : 23/04/2025 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210178
MEASUREMENT LOCATION : Process Area SITE OPERATION : Miss Wiraya Patchimboon

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	WBGT
Chromium Plating	13.34-14.04	27.5	34.4	34.5	29.6	30.3	34.0
	14.04-14.34	27.3	34.3	34.6	29.5		
	14.34-15.04	28.7	35.6	36.3	31.0		
	15.04-15.34	28.8	36.3	36.4	31.1		

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Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0714/68
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 23/04/2025
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 24/04/2025
Tel/Fax	: 038 -6272421	Test Date	: 25/04/2025
		Report Date	: 06/05/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND mg/m ³	RESULT mg/m ³	STANDARD mg/m ³
Annealing furnace	23/04/2025 09:35-11:35	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	23/04/2025 09:35-11:35	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5
Raw Material Area	23/04/2025 09:58-11:58	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	23/04/2025 09:58-11:58	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5

Analyst By : Bongpa Puthum
(Miss Pornnapa Budthum)

Approved By : Maing Poowanapetch
(Miss Narisa Poowanapetch)
Technical Management Team

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3. Notification of the Occupational Safety and Health Administration (OSHA).
4. ND = non-detectable.



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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0714/68
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 23/04/2025
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 24/04/2025
Tel/Fax	: 038 -6272421	Test Date	: 25/04/2025
		Report Date	: 06/05/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND mg/m ³	RESULT mg/m ³	STANDARD mg/m ³
Zn Pot Area	23/04/2025 09:28-13:28	Zinc oxide fume	NIOSH 7030/FAAS	< 0.002	ND	5

Analyst By : NR
(Mrs. Araya Tipparuk)

Approved By : Maing Poowanapetch
(Miss Narisa Poowanapetch)
Technical Management Team

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th


ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0714/68
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 23/04/2025
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 24/04/2025
		Test Date	: 25/04/2025
Tel/Fax	: 038 -6272421	Report Date	: 06/05/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND mg/m ³	RESULT mg/m ³	STANDARD mg/m ³
Chromium Plating	23/04/2025 10:55-14:55	Sodium hydroxide	OSHA ID 121/FAAS	< 0.004	ND	2

Analyst By : 
(Mrs. Araya Tipparuk)

Approved By : 
(Miss Narisa Poowasanpetch)
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.
3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. ND = non-detectable.



บริษัท ซีคอต จำกัด
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800
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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0714/68
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 23/04/2025
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 24/04/2025
		Test Date	: 29/04/2025
Tel/Fax	: 038 -6272421	Report Date	: 06/05/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND mg/m ³	RESULT mg/m ³	STANDARD mg/m ³
Chromium Plating	23/04/2025 10:55-14:55	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1

Analyst By : 
(Miss Pornnapa Budthum)

Approved By : 
(Miss Narisa Poowasanpetch)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0714/68
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 23/04/2025
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 24/04/2025
Tel/Fax	: 038 -6272421	Test Date	: 25/04/2025
		Report Date	: 06/05/2025

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Filtration
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				mg/m ³	mg/m ³	mg/m ³
Chromium Plating	23/04/2025 10:55-14:55	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5
Coater&Oven	23/04/2025 09:52-13:52	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5

Analyst By : 
(Mrs. Anya Tipparuk)

Approved By : 
(Miss Narisa Poowasanpetch)
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. TLV-TWA of American Conference of Governmental Industrial Hygienists (ACGIH).

4. ND = non-detectable.

ใบรับรองผลการตรวจวัดระดับเสียงในสถานที่ทำงาน



Noise Monitoring Result : Working Noise MTR-POSCO

Location : Annealing Furnace Monitor Period : Apr 23, 2025
SLM Model : SCARLET ST-21D Serial No : 820728
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Oct 02 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Oct 01 2025
Cal Sheet No.: CR-515-2025-093

Time	Equivalent Sound Pressure Level (dB(A))	
	Apr 23, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	84.3	
10:00 - 11:00	84.9	
11:00 - 12:00	84.8	
12:00 - 13:00	84.7	
13:00 - 14:00	84.7	
14:00 - 15:00	84.8	
15:00 - 16:00	84.8	
16:00 - 17:00	84.6	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(8)*	84.7	
Lmax **	99.2	
Standard-8Hr	85 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-POSCO

Location : Air Knives Monitor Period : Apr 23, 2025
SLM Model : Cirrus CR162C Serial No : G300832
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Oct 02 2024
SLM Reading / Adjust dB(A) : 93.7/0.0 Expire Date : Oct 01 2025
Cal Sheet No.: CR-515-2025-094

Time	Equivalent Sound Pressure Level (dB(A))	
	Apr 23, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	98.5	
10:00 - 11:00	99.0	
11:00 - 12:00	98.9	
12:00 - 13:00	99.1	
13:00 - 14:00	99.0	
14:00 - 15:00	99.1	
15:00 - 16:00	99.1	
16:00 - 17:00	98.8	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(8)*	98.9	
Lmax **	112.6	
Standard-8Hr	85 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-POSCO

Location : Skin Pass Mill Monitor Period : Apr 23, 2025
SLM Model : SCARLET ST-21D Serial No : 820725
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Oct 02 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Oct 01 2025
Cal Sheet No.: CR-515-2025-093

Time	Equivalent Sound Pressure Level (dB(A))	
	Apr 23, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	84.3	
10:00 - 11:00	84.3	
11:00 - 12:00	84.4	
12:00 - 13:00	84.5	
13:00 - 14:00	84.6	
14:00 - 15:00	84.6	
15:00 - 16:00	84.8	
16:00 - 17:00	84.4	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(8)*	84.5	
Lmax **	95.8	
Standard-8Hr	85 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-POSCO

Location : Trimmer Monitor Period : Apr 23, 2025
SLM Model : SCARLET ST-21D Serial No : 820730
Site Operator : Miss Wiraya Patchimboon

Calibrator Model : Cirrus CR:515 Serial No : 97097
Calibration Ref dB(A) : 94.0 Certified Date : Oct 02 2024
SLM Reading / Adjust dB(A) : 93.8/0.0 Expire Date : Oct 01 2025
Cal Sheet No.: CR-515-2025-093

Time	Equivalent Sound Pressure Level (dB(A))	
	Apr 23, 2025	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	80.7	
10:00 - 11:00	80.7	
11:00 - 12:00	80.1	
12:00 - 13:00	80.2	
13:00 - 14:00	81.5	
14:00 - 15:00	80.6	
15:00 - 16:00	81.8	
16:00 - 17:00	81.7	
17:00 - 18:00		
18:00 - 19:00		
19:00 - 20:00		
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(8)*	81.0	
Lmax **	97.5	
Standard-8Hr	85 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 09:00-17:00

** Maximum Sound Pressure Level between 09:00-17:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Sununta Sirawuttinanon)
Technical Management Team



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

NOISE MEASUREMENT RESULT : NOISE DOSE

CLIENT NAME	: POSCO Coated Steel (Thailand) Co., Ltd.	REFERENCE NO.	: 225012-NsDose-2504-0171
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 23/04/2025	CALIBRATOR TYPE	: Citrus : RC110A
MEASUREMENT LOCATION	: Process area	SERIAL NO.	: 95167
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 1,000 Hz, 114 dB

USER NAME	TIME	% DOSE	SOUND PRESSURE LEVEL (dBA)	
			TWA (8 hr)	STANDARD*
Operator Annealing Furnace	08.56-16.43	22.5	78.5	85.0
Operator Air Knives	08.57-16.42	419.5	91.2	85.0
Operator Skin Pass Mill	08.55-16.43	20.1	78.0	85.0
Operator Trimmer	09.33-17.00	46.7	81.7	85.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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 3. * Noise standard in working environment was notified by the Department of Labour Protection and Welfare, B.E.2561 (2018).
 4. TWA means Time Weighted Average.