

ภาคผนวก ค

ใบรับรองผลการตรวจวัดและวิเคราะห์

คุณภาพอากาศในบรรยากาศ



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

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : Posco Coated Steel (Thailand) Co.,Ltd. **REFERENCE NO.** : POSCO-222018-Cer-Amb/TSP_May22

SAMPLING BY : SECOT Co., Ltd. **SAMPLING DATE** : 13-20/05/2022

RECEIVED DATE : 31/05/2022 **ANALYTICAL DATE** : 03-04/06/2022

REPORT DATE : 07/06/2022 **SAMPLE CONDITION** : Normal

SITE OPERATOR : Mr. Supakit Tamoka

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)	13-14/05/2022	mg/m ³	0.060	0.121	0.067	0.330	40 CFR 50 App B
	14-15/05/2022	mg/m ³	0.077	0.099	0.061		
	15-16/05/2022	mg/m ³	0.062	0.090	0.065		
	16-17/05/2022	mg/m ³	0.067	0.081	0.065		
	17-18/05/2022	mg/m ³	0.099	0.085	0.072		
	18-19/05/2022	mg/m ³	0.070	0.083	0.063		
	19-20/05/2022	mg/m ³	0.033	0.118	0.042		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Naissa 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-222018-Mab Yang Porn Sub-District Health Promoting Hospital-SO2 13-20 May 2022



Ambient Air Monitoring Results : Sulfur dioxide
MTR-POSCO

Location : Mab Yang Porn Sub-District Health Promoting Hospital **Monitor Period** : 13-20 May 2022

Analyzer Model : API 100A **Station No** : SCT-14

Serial No : 238 **Site Operator** : Mr. Phuwadech Kaewjirakulsi

Calibrator Model : Teledyne 700E **Serial No** : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 13 Jan 2022 **Cal Concentration (ppb)** : 0,100,200,400

Expire Date : 12 Jan 2023

Time	SO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
10:00 - 11:00	0.0015	0.0008	0.0027	0.0008	0.0016	0.0032	0.0017
11:00 - 12:00	0.0018	0.0014	0.0040	0.0014	0.0012	0.0023	0.0008
12:00 - 13:00	0.0014	0.0035	0.0014	0.0027	0.0013	0.0027	0.0009
13:00 - 14:00	0.0027	0.0024	0.0023	0.0018	0.0009	0.0039	0.0008
14:00 - 15:00	0.0037	0.0028	0.0018	0.0026	0.0004	0.0039	0.0004
15:00 - 16:00	0.0025	0.0022	0.0007	0.0012	0.0026	0.0008	0.0007
16:00 - 17:00	0.0014	0.0017	0.0014	0.0008	0.0013	0.0070	0.0004
17:00 - 18:00	0.0024	0.0020	0.0026	0.0016	0.0013	0.0025	0.0016
18:00 - 19:00	0.0039	0.0018	0.0019	0.0038	0.0027	0.0026	0.0010
19:00 - 20:00	0.0026	0.0020	0.0024	0.0023	0.0015	0.0017	0.0019
20:00 - 21:00	0.0046	0.0033	0.0026	0.0021	0.0012	0.0029	0.0027
21:00 - 22:00	0.0064	0.0016	0.0017	0.0018	0.0014	0.0011	0.0025
22:00 - 23:00	0.0059	0.0043	0.0023	0.0013	0.0023	0.0005	0.0015
23:00 - 00:00	0.0005	0.0009	0.0007	0.0059	0.0063	0.0018	0.0012
00:00 - 01:00	0.0012	0.0005	0.0004	0.0012	0.0030	0.0007	0.0005
01:00 - 02:00	0.0008	0.0010	0.0008	0.0008	0.0021	0.0014	0.0002
02:00 - 03:00	0.0001	0.0015	0.0007	0.0006	0.0018	0.0026	0.0009
03:00 - 04:00	0.0014	0.0034	0.0004	0.0018	0.0013	0.0018	0.0016
04:00 - 05:00	0.0029	0.0026	0.0008	0.0023	0.0005	0.0024	0.0027
05:00 - 06:00	0.0032	0.0013	0.0008	0.0013	0.0012	0.0026	0.0015
06:00 - 07:00	0.0023	0.0046	0.0007	0.0014	0.0008	0.0017	0.0016
07:00 - 08:00	0.0027	0.0029	0.0003	0.0039	0.0001	0.0023	0.0007
08:00 - 09:00	0.0039	0.0038	0.0010	0.0026	0.0014	0.0003	0.0015
09:00 - 10:00	0.0039	0.0042	0.0015	0.0022	0.0029	0.0010	0.0008
Average-24Hr*	0.0027	0.0024	0.0015	0.0020	0.0017	0.0022	0.0013
Max-1Hr	0.0064	0.0046	0.0040	0.0059	0.0063	0.0070	0.0027
Min-1Hr	0.0001	0.0005	0.0003	0.0006	0.0001	0.0003	0.0002
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 : Wat Ratadaram Monitor Period : 13-20 May 2022
Analyzer Model : Teledyne T100 Station No : SCT-15
Serial No : 120 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0108319
Certified Date : 13 Jan 2022 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 12 Jan 2023

Time	SO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
13:00 - 14:00	0.0033	0.0039	0.0025	0.0022	0.0016	0.0027	0.0005
14:00 - 15:00	0.0029	0.0016	0.0027	0.0016	0.0027	0.0013	0.0007
15:00 - 16:00	0.0023	0.0026	0.0007	0.0035	0.0017	0.0033	0.0008
16:00 - 17:00	0.0005	0.0010	0.0015	0.0010	0.0007	0.0019	0.0017
17:00 - 18:00	0.0004	0.0005	0.0017	0.0013	0.0004	0.0029	0.0025
18:00 - 19:00	0.0008	0.0006	0.0013	0.0013	0.0017	0.0027	0.0026
19:00 - 20:00	0.0014	0.0005	0.0029	0.0009	0.0018	0.0012	0.0007
20:00 - 21:00	0.0013	0.0017	0.0023	0.0004	0.0008	0.0005	0.0015
21:00 - 22:00	0.0018	0.0018	0.0016	0.0013	0.0003	0.0008	0.0017
22:00 - 23:00	0.0018	0.0033	0.0013	0.0013	0.0005	0.0007	0.0004
23:00 - 00:00	0.0017	0.0006	0.0005	0.0030	0.0018	0.0014	0.0016
00:00 - 01:00	0.0019	0.0022	0.0007	0.0012	0.0005	0.0020	0.0009
01:00 - 02:00	0.0020	0.0009	0.0016	0.0023	0.0008	0.0006	0.0007
02:00 - 03:00	0.0033	0.0022	0.0008	0.0034	0.0007	0.0024	0.0006
03:00 - 04:00	0.0015	0.0012	0.0003	0.0015	0.0014	0.0016	0.0004
04:00 - 05:00	0.0029	0.0030	0.0006	0.0019	0.0020	0.0027	0.0004
05:00 - 06:00	0.0007	0.0003	0.0019	0.0013	0.0007	0.0017	0.0006
06:00 - 07:00	0.0030	0.0024	0.0014	0.0017	0.0009	0.0007	0.0002
07:00 - 08:00	0.0016	0.0033	0.0015	0.0020	0.0002	0.0004	0.0007
08:00 - 09:00	0.0010	0.0019	0.0009	0.0004	0.0004	0.0017	0.0010
09:00 - 10:00	0.0027	0.0018	0.0029	0.0008	0.0018	0.0018	0.0006
10:00 - 11:00	0.0032	0.0005	0.0019	0.0004	0.0002	0.0008	0.0011
11:00 - 12:00	0.0029	0.0007	0.0013	0.0008	0.0019	0.0003	0.0016
12:00 - 13:00	0.0026	0.0017	0.0030	0.0024	0.0017	0.0005	0.0028

Average-24Hr*	0.0020	0.0017	0.0016	0.0016	0.0011	0.0015	0.0011
Max-1Hr	0.0033	0.0039	0.0030	0.0035	0.0027	0.0033	0.0028
Min-1Hr	0.0004	0.0003	0.0003	0.0004	0.0002	0.0003	0.0002

Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

Remark : * Average time between 13:00-13:00

(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 : 13-20 May 2022
Analyzer Model : Teledyne T100 Station No : SCT-16
Serial No : 2009 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0108319
Certified Date : 13 Jan 2022 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 12 Jan 2023

Time	SO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
12:00 - 13:00	0.0018	0.0019	0.0015	0.0020	0.0044	0.0018	0.0007
13:00 - 14:00	0.0028	0.0012	0.0027	0.0012	0.0025	0.0018	0.0010
14:00 - 15:00	0.0037	0.0014	0.0027	0.0007	0.0022	0.0009	0.0007
15:00 - 16:00	0.0038	0.0003	0.0021	0.0003	0.0016	0.0008	0.0006
16:00 - 17:00	0.0027	0.0002	0.0020	0.0006	0.0019	0.0010	0.0006
17:00 - 18:00	0.0024	0.0006	0.0018	0.0013	0.0006	0.0020	0.0016
18:00 - 19:00	0.0017	0.0004	0.0019	0.0014	0.0004	0.0025	0.0015
19:00 - 20:00	0.0053	0.0014	0.0018	0.0019	0.0026	0.0017	0.0018
20:00 - 21:00	0.0043	0.0025	0.0017	0.0029	0.0025	0.0007	0.0019
21:00 - 22:00	0.0028	0.0029	0.0018	0.0026	0.0012	0.0007	0.0026
22:00 - 23:00	0.0040	0.0013	0.0019	0.0035	0.0027	0.0002	0.0022
23:00 - 00:00	0.0013	0.0016	0.0021	0.0021	0.0008	0.0016	0.0019
00:00 - 01:00	0.0019	0.0013	0.0035	0.0017	0.0002	0.0015	0.0019
01:00 - 02:00	0.0019	0.0019	0.0033	0.0019	0.0008	0.0019	0.0021
02:00 - 03:00	0.0008	0.0019	0.0043	0.0040	0.0001	0.0018	0.0011
03:00 - 04:00	0.0002	0.0008	0.0042	0.0028	0.0017	0.0008	0.0024
04:00 - 05:00	0.0008	0.0002	0.0026	0.0026	0.0014	0.0009	0.0017
05:00 - 06:00	0.0001	0.0008	0.0039	0.0004	0.0005	0.0006	0.0016
06:00 - 07:00	0.0017	0.0001	0.0027	0.0007	0.0017	0.0001	0.0017
07:00 - 08:00	0.0015	0.0017	0.0024	0.0008	0.0007	0.0003	0.0002
08:00 - 09:00	0.0005	0.0015	0.0049	0.0017	0.0015	0.0007	0.0007
09:00 - 10:00	0.0022	0.0005	0.0035	0.0025	0.0027	0.0009	0.0004
10:00 - 11:00	0.0022	0.0016	0.0022	0.0027	0.0028	0.0014	0.0016
11:00 - 12:00	0.0013	0.0007	0.0025	0.0040	0.0017	0.0012	0.0009

Average-24Hr*	0.0022	0.0012	0.0027	0.0019	0.0016	0.0012	0.0014
Max-1Hr	0.0053	0.0029	0.0049	0.0040	0.0044	0.0025	0.0026
Min-1Hr	0.0001	0.0001	0.0015	0.0003	0.0001	0.0001	0.0002

Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

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

(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 : 13-20 May 2022
Analyzer Model : API 200A Station No : SCT-14
Serial No : 1645 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0108319
Certified Date : 13 Jan 2022 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 12 Jan 2023

Time	NO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
10:00 - 11:00	0.0194	0.0180	0.0151	0.0143	0.0128	0.0144	0.0148
11:00 - 12:00	0.0144	0.0186	0.0183	0.0206	0.0130	0.0196	0.0083
12:00 - 13:00	0.0185	0.0246	0.0157	0.0255	0.0194	0.0129	0.0108
13:00 - 14:00	0.0132	0.0149	0.0129	0.0284	0.0183	0.0119	0.0124
14:00 - 15:00	0.0157	0.0164	0.0119	0.0230	0.0185	0.0087	0.0119
15:00 - 16:00	0.0126	0.0055	0.0087	0.0230	0.0174	0.0114	0.0139
16:00 - 17:00	0.0125	0.0085	0.0114	0.0261	0.0169	0.0124	0.0183
17:00 - 18:00	0.0163	0.0079	0.0124	0.0075	0.0153	0.0150	0.0215
18:00 - 19:00	0.0224	0.0080	0.0150	0.0208	0.0118	0.0158	0.0207
19:00 - 20:00	0.0179	0.0066	0.0158	0.0072	0.0149	0.0124	0.0214
20:00 - 21:00	0.0087	0.0109	0.0124	0.0119	0.0164	0.0107	0.0245
21:00 - 22:00	0.0096	0.0088	0.0107	0.0123	0.0055	0.0136	0.0164
22:00 - 23:00	0.0063	0.0106	0.0136	0.0064	0.0085	0.0080	0.0216
23:00 - 00:00	0.0086	0.0080	0.0043	0.0149	0.0079	0.0093	0.0162
00:00 - 01:00	0.0079	0.0093	0.0051	0.0074	0.0080	0.0075	0.0166
01:00 - 02:00	0.0062	0.0075	0.0063	0.0058	0.0066	0.0071	0.0173
02:00 - 03:00	0.0064	0.0071	0.0059	0.0086	0.0109	0.0073	0.0145
03:00 - 04:00	0.0062	0.0073	0.0073	0.0137	0.0088	0.0097	0.0118
04:00 - 05:00	0.0079	0.0097	0.0043	0.0145	0.0106	0.0107	0.0070
05:00 - 06:00	0.0092	0.0163	0.0059	0.0174	0.0162	0.0075	0.0059
06:00 - 07:00	0.0141	0.0207	0.0063	0.0159	0.0166	0.0084	0.0068
07:00 - 08:00	0.0163	0.0188	0.0238	0.0178	0.0095	0.0087	0.0046
08:00 - 09:00	0.0169	0.0267	0.0221	0.0143	0.0125	0.0095	0.0117
09:00 - 10:00	0.0163	0.0177	0.0206	0.0183	0.0123	0.0084	0.0095
Average-24Hr*	0.0126	0.0129	0.0119	0.0154	0.0129	0.0109	0.0141
Max-1Hr	0.0224	0.0267	0.0238	0.0264	0.0194	0.0196	0.0245
Min-1Hr	0.0062	0.0055	0.0043	0.0058	0.0055	0.0071	0.0046
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 Ratadaram Monitor Period : 13-20 May 2022
Analyzer Model : API 200A Station No : SCT-15
Serial No : 1505 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E Serial No : 587
Calibration Gas Cylinder I.D.: EB0108319
Certified Date : 13 Jan 2022 Cal Concentration (ppb) : 0,100,200,400
Expire Date : 12 Jan 2023

Time	NO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
13:00 - 14:00	0.0187	0.0120	0.0136	0.0173	0.0174	0.0147	0.0145
14:00 - 15:00	0.0151	0.0106	0.0145	0.0150	0.0169	0.0161	0.0138
15:00 - 16:00	0.0194	0.0079	0.0127	0.0133	0.0137	0.0168	0.0149
16:00 - 17:00	0.0143	0.0064	0.0179	0.0151	0.0149	0.0184	0.0114
17:00 - 18:00	0.0168	0.0072	0.0206	0.0170	0.0097	0.0159	0.0108
18:00 - 19:00	0.0169	0.0098	0.0184	0.0144	0.0124	0.0181	0.0112
19:00 - 20:00	0.0195	0.0099	0.0179	0.0133	0.0173	0.0174	0.0126
20:00 - 21:00	0.0157	0.0147	0.0153	0.0181	0.0162	0.0188	0.0139
21:00 - 22:00	0.0149	0.0134	0.0185	0.0207	0.0162	0.0198	0.0097
22:00 - 23:00	0.0099	0.0146	0.0159	0.0089	0.0199	0.0154	0.0146
23:00 - 00:00	0.0147	0.0123	0.0118	0.0099	0.0085	0.0126	0.0068
00:00 - 01:00	0.0148	0.0137	0.0093	0.0072	0.0086	0.0133	0.0062
01:00 - 02:00	0.0138	0.0150	0.0096	0.0058	0.0119	0.0130	0.0079
02:00 - 03:00	0.0149	0.0084	0.0106	0.0043	0.0096	0.0120	0.0095
03:00 - 04:00	0.0114	0.0072	0.0119	0.0048	0.0114	0.0087	0.0104
04:00 - 05:00	0.0108	0.0109	0.0108	0.0070	0.0100	0.0151	0.0095
05:00 - 06:00	0.0112	0.0126	0.0128	0.0063	0.0105	0.0106	0.0078
06:00 - 07:00	0.0126	0.0125	0.0148	0.0047	0.0159	0.0114	0.0092
07:00 - 08:00	0.0139	0.0080	0.0169	0.0124	0.0135	0.0094	0.0114
08:00 - 09:00	0.0097	0.0106	0.0175	0.0168	0.0146	0.0084	0.0164
09:00 - 10:00	0.0146	0.0153	0.0192	0.0156	0.0150	0.0085	0.0196
10:00 - 11:00	0.0169	0.0174	0.0163	0.0179	0.0135	0.0150	0.0147
11:00 - 12:00	0.0143	0.0137	0.0144	0.0181	0.0124	0.0098	0.0187
12:00 - 13:00	0.0178	0.0109	0.0150	0.0183	0.0153	0.0134	0.0225
Average-24Hr*	0.0147	0.0115	0.0148	0.0126	0.0136	0.0139	0.0124
Max-1Hr	0.0195	0.0174	0.0206	0.0207	0.0199	0.0198	0.0225
Min-1Hr	0.0097	0.0064	0.0093	0.0043	0.0085	0.0084	0.0062
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Suangulhab School
Analyzer Model : Teledyne T200
Serial No : 110

Monitor Period : 13-20 May 2022
Station No : SCT-16
Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E
Calibration Gas Cylinder I.D.: EB0108319
Certified Date : 13 Jan 2022
Expire Date : 12 Jan 2023

Serial No : 587
Cal Concentration (ppb) : 0,100,200,400

Time	NO2 Concentration (ppm)						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
12:00 - 13:00	0.0133	0.0215	0.0124	0.0193	0.0160	0.0105	0.0105
13:00 - 14:00	0.0087	0.0208	0.0063	0.0168	0.0219	0.0094	0.0124
14:00 - 15:00	0.0165	0.0185	0.0097	0.0214	0.0196	0.0118	0.0108
15:00 - 16:00	0.0206	0.0218	0.0090	0.0185	0.0173	0.0081	0.0096
16:00 - 17:00	0.0208	0.0198	0.0116	0.0176	0.0194	0.0127	0.0098
17:00 - 18:00	0.0189	0.0185	0.0076	0.0148	0.0229	0.0076	0.0093
18:00 - 19:00	0.0185	0.0128	0.0115	0.0151	0.0185	0.0130	0.0083
19:00 - 20:00	0.0203	0.0164	0.0088	0.0140	0.0176	0.0075	0.0085
20:00 - 21:00	0.0223	0.0119	0.0126	0.0149	0.0148	0.0109	0.0098
21:00 - 22:00	0.0219	0.0125	0.0076	0.0124	0.0151	0.0104	0.0129
22:00 - 23:00	0.0098	0.0120	0.0087	0.0151	0.0140	0.0098	0.0119
23:00 - 00:00	0.0119	0.0075	0.0106	0.0105	0.0093	0.0105	0.0121
00:00 - 01:00	0.0167	0.0085	0.0137	0.0094	0.0083	0.0072	0.0109
01:00 - 02:00	0.0108	0.0094	0.0108	0.0118	0.0085	0.0112	0.0183
02:00 - 03:00	0.0098	0.0107	0.0126	0.0081	0.0098	0.0165	0.0172
03:00 - 04:00	0.0115	0.0089	0.0198	0.0127	0.0129	0.0152	0.0221
04:00 - 05:00	0.0089	0.0074	0.0174	0.0076	0.0119	0.0121	0.0226
05:00 - 06:00	0.0063	0.0113	0.0064	0.0130	0.0120	0.0112	0.0215
06:00 - 07:00	0.0075	0.0145	0.0070	0.0075	0.0197	0.0108	0.0209
07:00 - 08:00	0.0067	0.0105	0.0096	0.0193	0.0143	0.0138	0.0150
08:00 - 09:00	0.0106	0.0095	0.0126	0.0112	0.0126	0.0103	0.0153
09:00 - 10:00	0.0108	0.0125	0.0078	0.0115	0.0138	0.0194	0.0149
10:00 - 11:00	0.0228	0.0123	0.0129	0.0127	0.0120	0.0126	0.0124
11:00 - 12:00	0.0232	0.0104	0.0089	0.0136	0.0114	0.0088	0.0142
Average-24Hr*	0.0145	0.0133	0.0107	0.0137	0.0147	0.0113	0.0138
Max-1Hr	0.0232	0.0218	0.0198	0.0214	0.0229	0.0194	0.0226
Min-1Hr	0.0063	0.0074	0.0063	0.0075	0.0083	0.0072	0.0083

Standard-1Hr
Standard-24Hr

0.17 ppm(320 ug/cu.m)

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

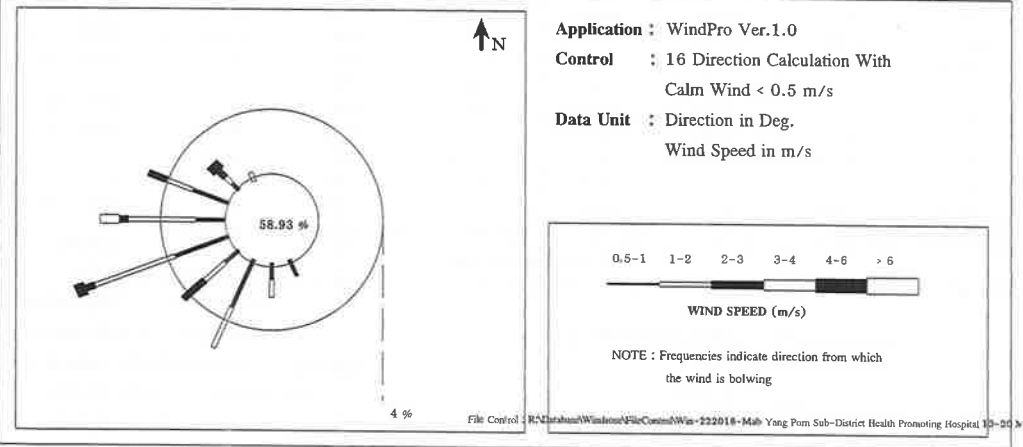


Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital
Wind Speed Model : NRG Symphonie
Wind Direction Model : NRG Symphonie

Monitor period : 13-20 May 2022
Serial No : A5088
Serial No : A5088

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5 - 1 m/s	1 - 2 m/s	2 - 3 m/s	3 - 4 m/s	4 - 6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
S	0.0119	0.0119	0.0000	0.0000	0.0000	0.0000	0.0238
SSW	0.0357	0.0298	0.0000	0.0000	0.0000	0.0000	0.0655
SW	0.0119	0.0179	0.0179	0.0000	0.0000	0.0000	0.0476
WSW	0.0357	0.0536	0.0060	0.0000	0.0060	0.0000	0.1012
W	0.0179	0.0417	0.0060	0.0119	0.0000	0.0000	0.0774
WNW	0.0238	0.0179	0.0119	0.0000	0.0000	0.0000	0.0536
NW	0.0060	0.0060	0.0060	0.0000	0.0060	0.0000	0.0238
NNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
CALM	0.5893						



(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

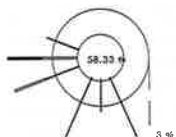


Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor period : 13-20 May 2022
Wind Speed Model : NRG Symphonie Serial No : A5088
Wind Direction Model : NRG Symphonie Serial No : A5088

Time	13-14 May 2022		14-15 May 2022		15-16 May 2022		16-17 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
13:00 - 14:00	0.8	WNW	1.2	SSW	0.5	SW	0.0	SSW
14:00 - 15:00	1.1	W	1.7	SSW	4.2	WSW	0.0	SSW
15:00 - 16:00	0.0	SW	0.9	SSW	1.3	SW	0.0	SSW
16:00 - 17:00	0.5	SSW	1.5	SSW	1.9	SW	0.0	SW
17:00 - 18:00	0.5	S	1.4	S	1.5	SSW	0.0	SW
18:00 - 19:00	0.8	SSE	0.9	S	1.3	SSW	0.0	SW
19:00 - 20:00	0.7	SSE	0.0	S	0.6	SSW	0.0	WSW
20:00 - 21:00	0.0	SSE	0.0	S	0.0	SSW	0.0	WSW
21:00 - 22:00	0.0	S	1.1	S	0.0	SSW	0.0	WSW
22:00 - 23:00	0.0	S	0.0	S	0.0	SSW	0.0	WSW
23:00 - 24:00	0.0	S	0.0	S	0.0	SSW	0.5	W
00:00 - 01:00	0.0	S	0.0	SSW	0.8	SSW	0.3	W
01:00 - 02:00	0.0	S	0.1	SSW	0.0	SSW	0.9	W
02:00 - 03:00	0.0	S	0.9	SSW	0.9	SW	1.3	W
03:00 - 04:00	0.0	SSW	0.0	SSW	0.0	SW	0.0	W
04:00 - 05:00	0.2	SSW	0.0	SSW	0.0	SW	0.0	W
05:00 - 06:00	0.7	SSW	0.0	SW	0.0	SW	0.0	W
06:00 - 07:00	0.0	SSW	0.0	SW	0.0	SW	0.3	WNW
07:00 - 08:00	2.2	W	0.0	WSW	0.0	W	0.1	NW
08:00 - 09:00	0.4	WSW	0.4	W	0.4	W	1.7	WNW
09:00 - 10:00	1.4	WSW	0.5	W	1.7	WSW	0.9	WNW
10:00 - 11:00	0.0	W	0.6	WSW	0.2	WSW	0.2	WSW
11:00 - 12:00	0.8	WSW	0.3	WSW	2.0	SW	0.0	WSW
12:00 - 13:00	0.0	SW	0.6	WSW	0.2	SSW	0.0	WSW

Wind Rose



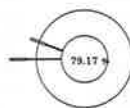
5 %



5 %



5 %



6 %



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team

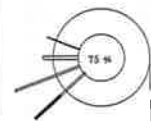


Meteorological Monitoring Results : Wind Rose MTR-POSCO

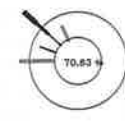
Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor period : 13-20 May 2022
Wind Speed Model : NRG Symphonie Serial No : A5088
Wind Direction Model : NRG Symphonie Serial No : A5088

Time	17-18 May 2022		18-19 May 2022		19-20 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
13:00 - 14:00	0.0	WNW	0.0	WSW	1.9	NW
14:00 - 15:00	0.0	WNW	0.0	W	1.2	WNW
15:00 - 16:00	0.0	WNW	0.0	W	1.1	W
16:00 - 17:00	0.4	W	0.1	W	1.2	WSW
17:00 - 18:00	1.8	WSW	0.0	W	2.5	WSW
18:00 - 19:00	2.4	SW	0.0	W	2.0	SW
19:00 - 20:00	0.0	SW	0.0	W	1.3	WSW
20:00 - 21:00	1.4	SW	0.0	W	0.6	WSW
21:00 - 22:00	0.0	SW	0.0	W	0.3	WSW
22:00 - 23:00	1.1	WSW	0.4	W	1.0	WSW
23:00 - 24:00	0.1	WSW	1.3	W	0.0	WSW
00:00 - 01:00	0.0	WSW	1.4	W	1.0	WSW
01:00 - 02:00	0.0	WSW	0.0	WNW	0.3	WSW
02:00 - 03:00	0.0	WSW	0.0	WNW	1.5	WSW
03:00 - 04:00	0.0	WSW	0.0	WNW	0.6	WSW
04:00 - 05:00	0.0	WSW	0.0	WNW	0.8	WSW
05:00 - 06:00	0.0	WSW	0.0	W	0.2	WSW
06:00 - 07:00	0.0	W	0.0	WNW	0.2	W
07:00 - 08:00	0.1	W	0.3	WNW	2.7	WNW
08:00 - 09:00	0.0	WNW	0.7	WNW	1.6	WNW
09:00 - 10:00	0.3	WNW	0.9	NW	3.1	W
10:00 - 11:00	0.5	WNW	1.0	NNW	1.5	W
11:00 - 12:00	0.2	W	4.1	NW	1.8	W
12:00 - 13:00	3.7	W	2.1	NW	2.1	WNW

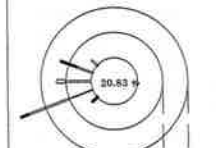
Wind Rose



3 %



6 %



12 % 24 %



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

(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 : 13-20 May 2022

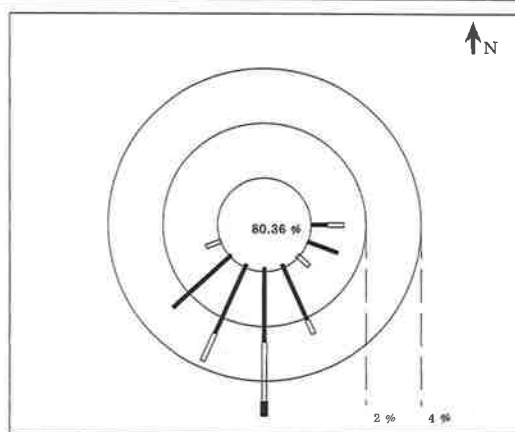
Wind Speed Model : NRG Symphonie

Serial No : A4905

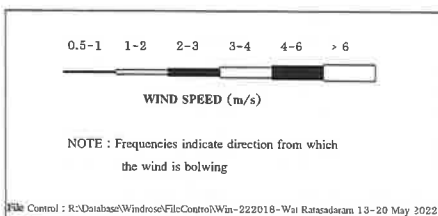
Wind Direction Model : NRG Symphonie

Serial No : A4905

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
ESE	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
SE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SSE	0.0238	0.0060	0.0000	0.0000	0.0000	0.0000	0.0298
S	0.0298	0.0238	0.0000	0.0000	0.0000	0.0000	0.0535
SSW	0.0298	0.0119	0.0000	0.0000	0.0000	0.0000	0.0417
SW	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0298
WSW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.8036						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With
Calm Wind < 0.5 m/sData Unit : Direction in Deg.
Wind Speed in m/s

(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 : 13-20 May 2022

Wind Speed Model : NRG Symphonie

Serial No : A4905

Wind Direction Model : NRG Symphonie

Serial No : A4905

Time	13-14 May 2022		14-15 May 2022		15-16 May 2022		16-17 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
13:00 - 14:00	0.0	W	0.6	SSE	0.0	S	0.1	SE
14:00 - 15:00	0.0	S	0.0	SE	1.1	SSE	0.4	SE
15:00 - 16:00	0.0	SE	0.9	ESE	1.0	SE	0.6	SSE
16:00 - 17:00	0.0	E	0.0	E	0.0	ESE	0.4	SSE
17:00 - 18:00	0.0	ENE	0.8	E	0.4	ESE	0.0	SSE
18:00 - 19:00	0.0	ENE	0.2	E	0.0	ESE	0.0	SSE
19:00 - 20:00	0.0	ENE	1.4	E	0.8	ESE	0.0	S
20:00 - 21:00	0.0	E	0.0	ESE	0.4	ESE	0.0	S
21:00 - 22:00	0.0	E	0.0	ESE	0.0	SE	0.0	S
22:00 - 23:00	0.0	ESE	0.0	SE	0.0	SE	0.0	SSE
23:00 - 24:00	0.0	ESE	0.0	SE	0.0	SE	0.4	S
00:00 - 01:00	0.0	ESE	0.0	SSE	0.0	SSE	0.5	S
01:00 - 02:00	0.0	SE	0.0	SSE	0.0	SSE	0.5	S
02:00 - 03:00	0.0	SE	0.0	SSE	0.0	SSE	0.0	S
03:00 - 04:00	0.0	SE	0.0	SSE	0.0	SSE	0.0	S
04:00 - 05:00	0.0	SE	0.0	S	0.0	S	0.0	S
05:00 - 06:00	0.0	SSE	0.0	S	0.0	S	2.4	S
06:00 - 07:00	0.0	SSE	0.0	S	0.0	S	0.4	S
07:00 - 08:00	0.7	SSE	1.2	S	0.0	S	0.5	S
08:00 - 09:00	0.3	SSE	0.5	S	0.0	S	1.0	S
09:00 - 10:00	0.0	S	0.0	S	0.0	S	1.9	S
10:00 - 11:00	0.0	SSW	0.4	S	0.8	SSW	0.0	S
11:00 - 12:00	0.0	SSW	0.0	S	0.3	SE	0.0	S
12:00 - 13:00	0.8	SSE	0.0	S	0.4	SE	0.5	SW

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-222018-Wat Ratasadaram 13-20 May 2022

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadam

Monitor period : 13-20 May 2022

Wind Speed Model : NRG Symphonie

Serial No : A4905

Wind Direction Model : NRG Symphonie

Serial No : A4905

Time	17-18 May 2022		18-19 May 2022		19-20 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
13:00 - 14:00	1.0	WSW	0.0	S	0.0	WNW
14:00 - 15:00	0.0	SSW	0.0	S	0.0	WSW
15:00 - 16:00	0.0	S	0.0	SSW	0.0	SSW
16:00 - 17:00	0.0	S	0.0	SSW	0.0	SSW
17:00 - 18:00	0.0	SSE	0.0	S	0.0	S
18:00 - 19:00	0.0	SSE	0.0	S	0.0	SSE
19:00 - 20:00	0.0	SSE	0.0	S	0.0	SSE
20:00 - 21:00	0.9	S	0.0	S	0.0	S
21:00 - 22:00	0.0	S	0.0	S	0.0	S
22:00 - 23:00	0.0	S	1.4	S	0.0	S
23:00 - 24:00	0.0	S	0.0	S	0.0	S
00:00 - 01:00	0.0	S	0.0	SSW	0.0	S
01:00 - 02:00	0.0	S	0.0	SSW	0.0	S
02:00 - 03:00	0.0	S	0.0	SSW	0.0	S
03:00 - 04:00	0.0	S	0.0	SSW	0.0	S
04:00 - 05:00	0.0	S	0.0	SSW	0.0	SSW
05:00 - 06:00	0.0	S	0.5	SSW	0.0	SSW
06:00 - 07:00	0.0	S	1.0	SSW	1.9	SSW
07:00 - 08:00	0.0	S	0.6	SSW	0.9	SSW
08:00 - 09:00	0.0	SSW	0.2	SW	0.0	SW
09:00 - 10:00	0.0	SW	0.6	SW	0.6	SW
10:00 - 11:00	0.0	SW	0.1	W	0.7	SSW
11:00 - 12:00	0.0	SSW	0.0	W	0.5	SW
12:00 - 13:00	0.0	S	0.0	NW	0.5	SW

Wind Rose



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

File Control : R:\Database\Windrose\FileControl\Win-222018-Wat Ratasadam 13-20 May 2022

(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 : 13-20 May 2022

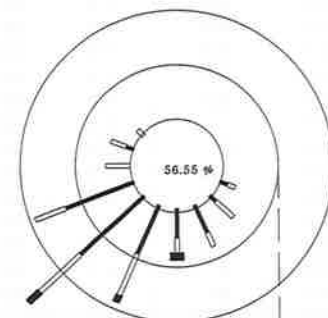
Wind Speed Model : NRG Symphonie

Serial No : A4901

Wind Direction Model : NRG Symphonie

Serial No : A4901

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ESE	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SE	0.0060	0.0179	0.0000	0.0000	0.0000	0.0000	0.0238
SSE	0.0238	0.0119	0.0000	0.0000	0.0000	0.0000	0.0357
S	0.0238	0.0119	0.0000	0.0000	0.0060	0.0000	0.0417
SSW	0.0417	0.0357	0.0060	0.0000	0.0000	0.0000	0.0833
SW	0.0655	0.0417	0.0119	0.0000	0.0000	0.0000	0.1190
WSW	0.0536	0.0238	0.0000	0.0000	0.0000	0.0000	0.0774
W	0.0000	0.0179	0.0000	0.0000	0.0000	0.0000	0.0179
WNW	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
NW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.5655						



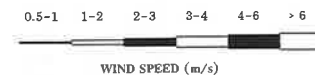
Application : WindPro Ver.1.0

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-222018-Suangulhab School 13-20 May 2022

(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 : 13-20 May 2022

Wind Speed Model : NRG Symphonie

Serial No : A4901

Wind Direction Model : NRG Symphonie

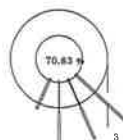
Serial No : A4901

Time	13-14 May 2022		14-15 May 2022		15-16 May 2022		16-17 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
12:00 - 13:00	2.3	SW	0.9	S	0.6	SSW	1.2	SSE
13:00 - 14:00	1.3	W	1.3	S	0.2	SSW	0.6	SSE
14:00 - 15:00	0.7	SW	0.5	SSE	1.8	SSW	0.7	SSE
15:00 - 16:00	0.1	S	1.0	SSE	0.3	S	0.7	S
16:00 - 17:00	1.1	SE	1.2	SE	0.0	S	0.0	S
17:00 - 18:00	0.0	ESE	0.0	SE	0.3	SSE	0.6	S
18:00 - 19:00	1.2	ESE	1.5	SE	0.8	SE	0.1	SSW
19:00 - 20:00	0.5	ESE	0.2	SE	0.9	SSE	0.0	SSW
20:00 - 21:00	0.4	ESE	0.2	SE	0.1	SSE	0.5	SSW
21:00 - 22:00	0.0	SE	0.2	SE	0.0	SSE	1.0	SSW
22:00 - 23:00	0.0	SE	0.2	SSE	0.0	SSE	0.0	SSW
23:00 - 24:00	0.0	SE	0.0	SSE	0.0	S	0.0	SSW
00:00 - 01:00	0.0	SE	0.0	SSE	0.0	S	1.1	SW
01:00 - 02:00	0.0	SSE	0.0	S	0.0	S	0.9	SW
02:00 - 03:00	0.0	SSE	0.0	S	0.0	S	0.0	SW
03:00 - 04:00	0.0	SSE	0.0	S	0.0	S	0.0	SW
04:00 - 05:00	0.0	SSE	0.0	S	0.0	S	0.0	SW
05:00 - 06:00	0.0	S	0.0	S	0.0	SSW	0.2	SW
06:00 - 07:00	0.1	S	0.0	SSW	0.6	SSW	0.4	SW
07:00 - 08:00	0.3	SSW	1.3	SSW	0.0	SW	0.6	WSW
08:00 - 09:00	0.4	SSW	0.0	SW	0.0	SW	0.6	WSW
09:00 - 10:00	0.9	SSW	0.0	SW	0.4	SW	0.5	SW
10:00 - 11:00	0.1	SW	0.0	SSW	0.6	SW	0.3	SSW
11:00 - 12:00	0.6	SW	0.2	SSW	5.3	S	0.0	SSW

Wind Rose



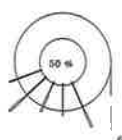
6 %



3 %



6 %



6 %



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

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Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Suangulhab School

Monitor period : 13-20 May 2022

Wind Speed Model : NRG Symphonie

Serial No : A4901

Wind Direction Model : NRG Symphonie

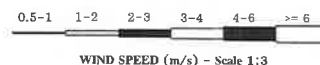
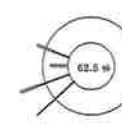
Serial No : A4901

Time	17-18 May 2022		18-19 May 2022		19-20 May 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
12:00 - 13:00	2.0	SW	0.0	SW	1.1	NW
13:00 - 14:00	1.5	W	0.4	SW	1.3	WNW
14:00 - 15:00	0.5	WSW	0.0	SW	0.0	W
15:00 - 16:00	1.2	SW	0.7	SW	0.6	WSW
16:00 - 17:00	0.6	SW	0.6	SW	1.3	SW
17:00 - 18:00	2.2	SSW	0.7	SW	0.2	SSW
18:00 - 19:00	0.7	S	0.0	SW	0.0	SSW
19:00 - 20:00	1.6	S	0.0	SW	1.6	SSW
20:00 - 21:00	0.8	SSW	0.0	SW	1.2	SSW
21:00 - 22:00	0.0	SSW	0.0	SW	1.3	SSW
22:00 - 23:00	0.0	SSW	0.2	SW	0.0	SSW
23:00 - 24:00	0.0	SSW	0.0	SW	0.5	SSW
00:00 - 01:00	0.3	SSW	0.0	SW	0.3	SSW
01:00 - 02:00	0.0	SSW	0.0	SW	0.0	SSW
02:00 - 03:00	0.0	SSW	0.0	SW	0.8	SSW
03:00 - 04:00	0.0	SSW	0.0	SW	0.0	SW
04:00 - 05:00	0.2	SSW	0.0	SW	1.0	SW
05:00 - 06:00	0.0	SSW	0.0	SW	1.3	SW
06:00 - 07:00	0.0	SW	0.6	WSW	0.7	SW
07:00 - 08:00	0.8	SW	0.8	WSW	1.4	WSW
08:00 - 09:00	0.7	WSW	1.0	WSW	0.7	WSW
09:00 - 10:00	0.4	WSW	1.1	W	1.0	WSW
10:00 - 11:00	0.7	WSW	0.5	WNW	1.0	SW
11:00 - 12:00	1.8	SW	1.4	WNW	1.0	WSW

Wind Rose



6 %



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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Furnace(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 17/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 20-21/05/2022
REPORT DATE	: 27/05/2022	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	: 8.5 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 584 Ncu.m./min
Temperature	: 202.3 °C	Excess Oxygen	: 8.6 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		8.6%O ₂	7.0%O ₂	7.0%O ₂	
Total Suspended Particulate	mg/Nm ³	1.6	1.8	10 ^{2/} /120 ^{3/} /320 ^{4/}	U.S. EPA Method 5

Phatchara Samanchan
(Miss Phatchara Samanchan)

Analyst

REG.NO. 2-239-ก-8183

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-ก-6419

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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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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Furnace(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 17/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 25/05/2022
REPORT DATE	: 31/05/2022	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	: 8.5 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 584 Ncu.m./min
Temperature	: 202.3 °C	Excess Oxygen	: 8.6 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		8.6%O ₂	7.0%O ₂	7.0%O ₂	
Sulfur Dioxide (SO ₂)	mg/Nm ³	ND (<5.0)	ND (<5.6)	30 ^{2/} /2,094 ^{3/} /157 ^{4/}	U.S. EPA Method 6

Phatchara Samanchan
(Miss Phatchara Samanchan)

Analyst

REG.NO. 2-239-ก-8183

Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-ก-6419

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CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Furnace(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 17/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 23/05/2022
REPORT DATE	: 31/05/2022	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	: 8.5 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 584 Nm ³ /min
Temperature	: 202.3 °C	Excess Oxygen	: 8.6 %

PARAMETER	UNIT	RESULT ^{1/}			REFERENCE METHOD
		8.6%O ₂	7.0%O ₂	7.0%O ₂	
Oxide of Nitrogen (NO _x)	mg/Nm ³	58.0	65.6	300 ^{2/} /339 ^{3/} /376 ^{4/}	U.S. EPA Method 7

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.7-239-8-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 17/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 20/05/2022
REPORT DATE	: 31/05/2022	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	: 8.5 m/s
Diameter	: 1.6 m	Flow Rate ^{1/}	: 584 Nm ³ /min
Temperature	: 202.3 °C	Excess Oxygen	: 8.6 %

PARAMETER	UNIT	RESULT ^{1/}			REFERENCE METHOD
		8.6%O ₂	7.0%O ₂	7.0%O ₂	
Carbon Monoxide (CO)	ppm	2.3	2.6	690	U.S. EPA Method 10

Sudaporn Soonthorn

(Miss Sudaporn Soonthorn)

Analyst

REG.NO.7-239-8-0001

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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

4. ^{2/} Emission Standard in Notification of the Ministry of Natural Resources and Environment for Industrial, B.E.2549 (2006).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Boiler(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 20-21/05/2022
REPORT DATE	: 27/05/2022	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	: 2.6 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 117 Ncu.m./min
Temperature	: 64.2 °C	Excess Oxygen	: 10.6 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		10.6%O ₂	7.0%O ₂	7.0%O ₂	
Total Suspended Particulate	mg/Nm ³	2.9	3.9	10 ^{2/} /120 ^{3/} /320 ^{4/}	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ก-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-6419

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CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Boiler(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 25/05/2022
REPORT DATE	: 31/05/2022	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	: 2.6 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 117 Ncu.m./min
Temperature	: 64.2 °C	Excess Oxygen	: 10.6 %

PARAMETER	UNIT	RESULT ^{1/}		STANDARD	REFERENCE METHOD
		10.6%O ₂	7.0%O ₂	7.0%O ₂	
Sulfur Dioxide (SO ₂)	mg/Nm ³	ND (<5.0)	ND (<6.7)	30 ^{2/} /2,094 ^{3/} /157 ^{4/}	U.S. EPA Method 6

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ก-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-6419

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REPORT DATE	: 31/05/2022	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	: 2.6 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 117 Ncu.m./min
Temperature	: 64.2 °C	Excess Oxygen	: 10.6 %

PARAMETER	UNIT	RESULT ^{1/}			REFERENCE METHOD
		10.6%O ₂	7.0%O ₂	7.0%O ₂	
Oxide of Nitrogen (NO _x)	mg/Nm ³	26.7	36.0	300 ^{2/} /339 ^{3/} /376 ^{4/}	U.S. EPA Method 7

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ท-8183

Narisa Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

REG.NO.7-239-ท-6419

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STACK DESCRIPTION

Height	: 20.0 m	Gas Velocity	: 2.6 m/s
Diameter	: 1.1 m	Flow Rate ^{1/}	: 117 Ncu.m./min
Temperature	: 64.2 °C	Excess Oxygen	: 10.6 %

PARAMETER	UNIT	RESULT ^{1/}			REFERENCE METHOD
		10.6%O ₂	7.0%O ₂	7.0%O ₂	
Carbon Monoxide (CO)	ppm	1.6	2.2	690 ^{2/}	U.S. EPA Method 10

Sudaporn Soonthorn

(Miss Sudaporn Soonthorn)

Analyst

REG.NO.7-239-ท-0001

Narisa Poowasanetch

(Miss Narisa Poowasanetch)

Technical Management Team

REG.NO.7-239-ท-6419

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

4. ^{2/} 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. : 222018-Stk(Cer)/Cleaning(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20-21/05/2022
REPORT DATE : 27/05/2022 SAMPLE CONDITION : Normal
STACK LOCATION : Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : *

STACK DESCRIPTION

Height : 44.8 m Gas Velocity : 2.5 m/s
Diameter : 1.1 m Flow Rate ^{1/} : 132 Ncu.m./min
Temperature : 34.3 °C Excess Oxygen : 20.9 %

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	2.0	30 ^{2/} /400 ^{3/}	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.7-239-0-8183

Maim Poowasanpet

(Miss Narisa Poowasanpet)

Technical Management Team

REG.NO.7-239-0-6419

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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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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Cleaning(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20-27/05/2022
REPORT DATE : 31/05/2022 SAMPLE CONDITION : Normal
STACK LOCATION : Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION : Process FUEL TYPE : *

STACK DESCRIPTION

Height : 44.8 m Gas Velocity : 2.5 m/s
Diameter : 1.1 m Flow Rate ^{1/} : 132 Ncu.m./min
Temperature : 34.3 °C Excess Oxygen : 20.9 %

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

Ki Ch

(Miss Krisana Chanthoom)

Analyst

Maim Poowasanpet

(Miss Narisa Poowasanpet)

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.

5. ND means non-detectable.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/SKP(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20-21/05/2022
REPORT DATE : 27/05/2022 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/} : 942 Ncu.m./min
Temperature : 32.0 °C Excess Oxygen : 20.9 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	2.5	30 ^{2/} /400 ^{3/}	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-8-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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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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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Coater&Oven(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20/05/2022
REPORT DATE : 27/05/2022 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 : 2.5 m/s
Diameter : 0.8 m Flow Rate^{1/} : 72.7 Ncu.m./min
Temperature : 28.0 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm ³	0.7	30 ^{2/} /400 ^{3/}	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-8-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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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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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Coater&Oven(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 17/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20-27/05/2022
REPORT DATE : 31/05/2022 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 : 2.5 m/s
Diameter : 0.8 m Flow Rate^{1/} : 72.7 Neu.m./min
Temperature : 28.0 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Chromium	mg/Nm ³	ND (<0.008)	0.000015	U.S. EPA Method 29

Krisana Chanthoom

(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-ก-7802

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-ก-6419

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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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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Pot Roll (May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 18/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 20-27/05/2022
REPORT DATE : 31/05/2022 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/} : 125 Neu.m./min
Temperature : 31.0 °C Excess Oxygen : 20.9 %

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Sodium Hydroxide (NaOH)	mg/Nm ³	0.006	0.03	U.S. EPA Method 29

Krisana Chanthoom

(Miss Krisana Chanthoom)

Analyst

Narisa Poowasanpetch

(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. : 222018-Stk(Cer)/Pot Roll(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 18/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 23/05/2022
REPORT DATE : 31/05/2022 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/} : 125 Ncu.m./min
Temperature : 31.0 °C Excess Oxygen : 20.9 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Phosphoric acid (H ₃ PO ₄)	mg/Nm ³	ND (<0.04)	0.16	Modify. U.S. EPA Method 26

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Pot Roll(May22)
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 18/05/2022
RECEIVED DATE : 20/05/2022 ANALYTICAL DATE : 21/05/2022
REPORT DATE : 31/05/2022 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/} : 125 Ncu.m./min
Temperature : 31.0 °C Excess Oxygen : 20.9 %

PARAMETER	UNIT	RESULTS ^{1/}	STANDARD ^{2/}	REFERENCE METHOD
Hydrogen Chloride (HCl)	mg/Nm ³	0.08	0.16	U.S. EPA Method 26

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO. 7-239-0-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 7-239-0-6419

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 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.	: 222018-Stk(Cer)/Chromium Plating(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 25/05/2022
REPORT DATE	: 31/05/2022	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	: 2.5	m/s
Diameter	: 0.8	m	Flow Rate ^{1/}	: 69.5	Ncu.m./min
Temperature	: 34.0	°C	Excess Oxygen	: 20.9	%

PARAMETER	UNITS	RESULTS ^{1/}	STANDARD	REFERENCE METHOD
Sulfur Dioxide (SO ₂)	ppm	ND (<1.90)	9.2 ^{2/} /500 ^{3/}	U.S. EPA Method 6

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.7-239-ก-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-6419

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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.	: 222018-Stk(Cer)/Chromium Plating(May22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/05/2022
RECEIVED DATE	: 20/05/2022	ANALYTICAL DATE	: 20-27/05/2022
REPORT DATE	: 31/05/2022	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	: 2.5	m/s
Diameter	: 0.8	m	Flow Rate ^{1/}	: 69.5	Ncu.m./min
Temperature	: 34.0	°C	Excess Oxygen	: 20.9	%

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

Krisana Chanthoom

(Miss Krisana Chanthoom)

Analyst

REG. NO.7-239-ก-7802

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO.7-239-ก-6419

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5. ND means non-detectable.

ระดับเสียงบริเวณโรงงานและชุมชนใกล้เคียง



Noise Monitoring Result : Community Noise

MTR-POSCO

Location : East Fence Monitor Period : 13-20 May 2022
 SLM Model : RION NL-21 Serial No : 00198274
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
 Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
 SLM Reading / Adjust dB(A) : 93.8/0.2 Expire Date : 23 Dec 2022
 Cal Sheet No.: NC-74-2022-053

Time	Equivalent Sound Pressure Level (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
09:00 - 10:00	56.1	54.5	42.3	55.6	76.8	56.8	57.5
10:00 - 11:00	56.4	51.9	42.7	58.9	63.9	58.0	59.0
11:00 - 12:00	54.7	57.4	47.0	61.1	54.4	58.5	59.3
12:00 - 13:00	51.1	49.8	59.2	56.4	50.8	58.4	55.0
13:00 - 14:00	48.0	47.9	59.1	55.2	48.7	54.7	52.5
14:00 - 15:00	45.0	48.2	45.3	59.0	47.3	52.9	45.8
15:00 - 16:00	53.8	49.6	46.3	67.5	54.2	56.1	49.2
16:00 - 17:00	55.4	50.4	59.6	68.2	54.7	54.5	56.4
17:00 - 18:00	53.4	49.8	49.7	67.6	53.4	54.7	55.7
18:00 - 19:00	55.7	46.8	50.0	65.0	58.1	53.1	57.4
19:00 - 20:00	57.0	45.4	49.1	65.8	56.6	53.3	57.2
20:00 - 21:00	53.6	45.0	56.2	65.7	56.4	49.6	55.9
21:00 - 22:00	52.2	44.7	57.3	66.2	64.3	47.7	57.8
22:00 - 23:00	53.9	44.8	55.8	65.9	53.7	47.8	58.6
23:00 - 00:00	49.1	45.4	54.7	66.0	45.8	47.4	56.9
00:00 - 01:00	48.8	50.0	47.0	65.4	49.2	49.0	56.8
01:00 - 02:00	52.7	49.1	52.1	50.7	56.4	49.2	58.0
02:00 - 03:00	53.5	46.7	50.9	46.0	55.7	48.3	58.5
03:00 - 04:00	54.6	49.8	57.7	48.4	57.4	50.5	58.4
04:00 - 05:00	55.0	48.2	54.9	50.8	57.2	48.0	54.7
05:00 - 06:00	52.5	43.4	54.6	50.5	55.9	61.4	52.9
06:00 - 07:00	53.1	44.9	58.0	53.4	57.8	58.1	56.1
07:00 - 08:00	53.6	44.2	55.1	52.8	58.6	54.5	50.8
08:00 - 09:00	53.4	45.3	54.6	55.9	56.9	56.5	48.7
Leq(24)*	53.7	49.7	54.9	63.1	64.0	55.1	56.4
Ldn	59.6	54.5	61.4	68.2	65.7	61.1	63.4
Lmax **	78.4	73.5	78.4	75.9	93.2	81.6	79.8
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

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

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

(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 : 13-20 May 2022
 SLM Model : RION NL-21 Serial No : 00198274
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
 Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
 SLM Reading / Adjust dB(A) : 93.8/0.2 Expire Date : 23 Dec 2022
 Cal Sheet No.: NC-74-2022-053

Time	L90 (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
09:00 - 10:00	49.7	49.8	40.3	51.0	61.7	52.1	49.0
10:00 - 11:00	51.3	49.4	40.3	51.4	42.6	52.1	50.5
11:00 - 12:00	50.9	47.5	41.0	52.5	44.7	51.9	53.2
12:00 - 13:00	44.3	46.1	43.6	52.7	44.2	51.7	48.5
13:00 - 14:00	42.0	45.4	43.1	51.4	43.3	48.7	46.2
14:00 - 15:00	41.9	46.0	42.4	55.4	42.2	48.6	43.3
15:00 - 16:00	44.6	46.9	42.7	64.7	46.4	49.4	45.2
16:00 - 17:00	46.1	48.2	42.2	63.8	50.2	50.2	45.9
17:00 - 18:00	46.2	46.7	42.3	66.9	46.9	49.2	48.5
18:00 - 19:00	48.6	45.2	41.2	62.2	50.2	48.8	54.8
19:00 - 20:00	48.0	43.9	42.4	62.5	46.9	47.6	55.7
20:00 - 21:00	44.2	42.2	46.3	64.6	47.5	46.4	53.9
21:00 - 22:00	42.4	42.6	45.1	65.0	47.2	46.1	53.9
22:00 - 23:00	44.5	42.6	44.6	62.9	44.3	46.1	52.5
23:00 - 00:00	43.4	43.9	44.8	61.1	43.3	45.7	52.1
00:00 - 01:00	43.9	46.3	43.5	47.4	45.2	47.0	52.1
01:00 - 02:00	44.7	44.1	44.3	46.0	45.9	46.3	52.1
02:00 - 03:00	47.6	42.2	47.7	44.1	48.5	45.8	51.9
03:00 - 04:00	52.1	41.7	52.4	45.2	54.8	45.7	51.7
04:00 - 05:00	52.3	41.1	53.6	44.2	55.7	45.2	48.7
05:00 - 06:00	51.0	40.4	50.7	43.4	53.9	48.3	48.6
06:00 - 07:00	52.0	41.4	50.0	43.6	53.9	46.1	49.4
07:00 - 08:00	49.3	40.0	51.0	44.6	52.5	45.9	44.2
08:00 - 09:00	49.5	41.4	50.8	48.4	52.1	46.5	43.3
L90(avg)*	48.4	45.3	47.3	60.1	51.9	48.6	51.1

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

(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 : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00487725
Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 93.9/0.1 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	Equivalent Sound Pressure Level (dB(A))							
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022	20-21 May 2022
10:00 - 11:00	59.2	55.4	55.4	54.3	55.0	55.7	58.3	
11:00 - 12:00	54.2	56.1	55.1	55.3	54.2	54.5	54.8	
12:00 - 13:00	54.2	54.4	54.2	53.8	53.9	53.6	56.5	
13:00 - 14:00	54.5	55.4	54.3	52.8	52.8	53.7	55.0	
14:00 - 15:00	53.9	54.4	55.9	54.4	54.1	53.4	54.8	
15:00 - 16:00	54.2	54.5	55.2	52.9	52.5	53.6	55.1	
16:00 - 17:00	53.6	57.3	55.4	56.6	52.9	53.9	55.5	
17:00 - 18:00	53.6	54.2	54.6	56.3	54.0	54.8	56.7	
18:00 - 19:00	55.7	54.0	54.8	54.0	53.5	54.8	54.6	
19:00 - 20:00	54.1	54.1	55.0	55.5	53.4	54.3	54.2	
20:00 - 21:00	54.3	53.7	54.3	55.6	53.0	54.9	53.8	
21:00 - 22:00	54.0	54.3	54.1	56.7	53.4	55.3	55.5	
22:00 - 23:00	53.6	54.4	54.3	53.4	52.6	55.3	55.4	
23:00 - 00:00	54.1	55.5	55.5	52.9	53.1	54.4	59.1	
00:00 - 01:00	53.6	55.1	53.9	54.0	54.0	54.5	56.5	
01:00 - 02:00	54.1	54.6	53.6	52.9	53.5	55.6	56.2	
02:00 - 03:00	55.3	55.0	55.7	52.3	52.5	55.5	56.9	
03:00 - 04:00	66.4	56.0	54.1	51.8	55.7	54.4	56.5	
04:00 - 05:00	54.9	54.8	54.2	51.6	53.4	54.7	55.8	
05:00 - 06:00	54.8	54.9	56.0	52.2	52.8	53.9	56.0	
06:00 - 07:00	56.7	55.2	53.8	52.5	52.9	53.9	55.9	
07:00 - 08:00	55.4	56.1	54.2	53.1	53.4	54.5	56.3	
08:00 - 09:00	55.8	55.5	54.3	53.6	54.4	54.7	56.2	
09:00 - 10:00	55.5	56.4	54.1	54.9	54.3	54.1	57.7	
Leq(24)*	56.8	55.1	54.7	54.2	53.6	54.5	56.2	
Ldn	64.8	61.5	61.1	59.5	59.9	61.1	62.9	
Lmax**	86.1	73.3	70.6	77.4	72.7	73.8	78.2	
Standard-24Hr	70 dB(A)							
Standard-Max	115 dB(A)							

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

** Maximum Sound Pressure Level between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : South Fence Monitor Period : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00487725
Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 93.9/0.1 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	L90 (dB(A))							
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022	20-21 May 2022
10:00 - 11:00	53.6	53.4	54.3	53.0	52.0	52.4	53.2	
11:00 - 12:00	53.0	53.1	53.4	52.5	51.9	52.5	53.2	
12:00 - 13:00	52.9	53.2	52.9	51.7	51.9	52.4	53.7	
13:00 - 14:00	52.9	52.7	53.1	51.6	51.3	52.5	53.6	
14:00 - 15:00	52.8	53.0	53.3	51.6	51.0	52.3	53.8	
15:00 - 16:00	52.4	53.2	53.8	51.3	51.3	52.5	53.6	
16:00 - 17:00	52.3	52.8	53.4	51.7	51.6	52.6	53.3	
17:00 - 18:00	52.6	52.8	53.5	52.0	51.6	53.0	53.2	
18:00 - 19:00	52.0	52.6	53.4	51.9	51.6	53.6	53.0	
19:00 - 20:00	52.3	52.9	52.7	51.7	52.4	53.3	52.6	
20:00 - 21:00	52.2	52.6	52.8	51.8	51.8	53.1	52.6	
21:00 - 22:00	52.3	53.1	53.0	51.3	51.6	53.0	52.9	
22:00 - 23:00	52.3	53.2	53.0	51.4	51.3	52.8	53.1	
23:00 - 00:00	52.6	53.2	52.7	51.4	51.3	53.1	53.1	
00:00 - 01:00	52.4	53.6	52.5	51.1	51.5	53.2	53.2	
01:00 - 02:00	52.6	53.3	52.6	51.1	51.4	52.9	54.6	
02:00 - 03:00	52.4	53.8	52.8	51.0	51.2	53.0	54.9	
03:00 - 04:00	52.7	53.9	52.6	50.8	51.5	53.3	54.2	
04:00 - 05:00	53.1	53.5	52.9	50.8	51.7	53.0	53.8	
05:00 - 06:00	52.6	53.8	52.8	50.8	51.7	52.9	54.1	
06:00 - 07:00	53.0	53.9	52.7	51.1	51.6	52.7	53.9	
07:00 - 08:00	52.9	53.9	52.8	51.4	51.6	52.9	54.2	
08:00 - 09:00	53.2	53.8	52.9	52.0	52.0	53.0	54.3	
09:00 - 10:00	53.3	53.9	53.1	52.2	52.1	52.9	55.3	
L90(avg)*	52.7	53.3	53.1	51.6	51.6	52.9	53.7	

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : West Fence

Monitor Period : 13-20 May 2022

SLM Model : RION NL-21

Serial No : 00187515

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 24 Dec 2021

SLM Reading / Adjust dB(A) : 94.0/0.0

Expire Date : 23 Dec 2022

Cal Sheet No.: NC-74-2022-053

Time	Equivalent Sound Pressure Level (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
11:00 - 12:00	58.8	55.3	57.5	57.8	56.4	54.4	53.6
12:00 - 13:00	58.4	57.9	53.7	56.6	56.9	54.8	53.0
13:00 - 14:00	58.0	57.6	55.1	57.0	54.5	54.4	52.4
14:00 - 15:00	58.4	60.3	55.3	57.6	54.5	54.9	53.1
15:00 - 16:00	58.2	60.3	55.5	57.1	54.6	54.5	53.3
16:00 - 17:00	57.8	58.2	59.1	55.6	54.2	54.5	54.8
17:00 - 18:00	58.5	59.9	60.2	54.6	54.4	54.0	55.3
18:00 - 19:00	58.2	58.5	55.5	56.2	55.2	54.8	55.2
19:00 - 20:00	55.6	57.6	55.1	55.5	55.3	53.9	54.8
20:00 - 21:00	55.0	56.6	56.8	57.3	55.1	53.9	53.9
21:00 - 22:00	52.4	59.3	55.9	57.1	55.5	54.1	54.2
22:00 - 23:00	53.0	59.0	56.4	56.9	54.3	53.9	54.7
23:00 - 00:00	54.1	59.1	55.6	57.4	56.0	54.1	53.8
00:00 - 01:00	55.9	58.7	55.9	56.9	54.6	54.2	55.4
01:00 - 02:00	58.9	58.9	55.2	57.3	57.3	55.6	55.1
02:00 - 03:00	58.3	58.7	55.0	58.7	54.9	54.2	55.5
03:00 - 04:00	58.6	58.2	56.8	56.7	56.8	54.0	56.8
04:00 - 05:00	58.5	56.6	57.1	55.4	54.1	53.5	55.4
05:00 - 06:00	59.3	58.4	55.9	55.9	54.3	53.7	54.9
06:00 - 07:00	57.9	57.8	55.5	55.7	54.1	54.3	54.2
07:00 - 08:00	57.5	57.4	55.4	55.5	54.3	54.1	54.7
08:00 - 09:00	59.6	58.2	55.1	56.2	53.6	54.3	54.1
09:00 - 10:00	54.7	57.4	55.3	56.3	53.7	54.4	55.0
10:00 - 11:00	56.3	58.1	56.5	56.3	54.5	53.7	54.4
Leq(24)*	57.5	58.4	56.3	56.7	55.1	54.3	54.6
Ldn	64.0	64.8	62.5	63.2	61.7	60.6	61.5
Lmax **	73.9	74.8	74.7	76.7	73.7	63.8	70.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 11:00-11:00

** Maximum Sound Pressure Level between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : West Fence

Monitor Period : 13-20 May 2022

SLM Model : RION NL-21

Serial No : 00187515

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 24 Dec 2021

SLM Reading / Adjust dB(A) : 94.0/0.0

Expire Date : 23 Dec 2022

Cal Sheet No.: NC-74-2022-053

Time	L90 (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
11:00 - 12:00	57.2	53.4	53.1	55.6	55.2	53.2	52.7
12:00 - 13:00	57.5	57.2	52.4	55.5	53.3	53.5	52.3
13:00 - 14:00	57.0	57.1	52.8	55.7	52.7	53.5	51.6
14:00 - 15:00	57.6	57.0	53.0	56.4	53.1	53.6	51.8
15:00 - 16:00	57.4	57.2	53.9	55.8	53.5	53.4	52.2
16:00 - 17:00	57.0	57.1	57.4	54.5	53.5	53.7	52.8
17:00 - 18:00	57.8	57.5	54.5	53.4	53.6	53.1	53.1
18:00 - 19:00	57.3	57.7	54.1	54.3	54.0	53.5	52.6
19:00 - 20:00	53.6	55.8	54.0	54.0	53.8	53.3	52.7
20:00 - 21:00	52.3	54.7	54.2	55.4	54.0	53.3	52.3
21:00 - 22:00	51.0	58.4	54.6	55.8	54.0	53.4	52.7
22:00 - 23:00	52.1	58.4	54.9	55.6	53.5	53.3	53.0
23:00 - 00:00	52.5	58.3	54.7	55.6	53.3	53.1	52.3
00:00 - 01:00	54.1	58.2	55.0	55.3	53.7	53.2	52.7
01:00 - 02:00	57.5	58.2	54.3	55.8	53.9	53.4	53.3
02:00 - 03:00	57.5	57.8	53.5	55.7	53.9	53.4	53.6
03:00 - 04:00	57.7	57.5	55.0	55.4	53.3	53.2	54.9
04:00 - 05:00	57.8	54.5	55.0	54.3	53.1	53.0	54.0
05:00 - 06:00	57.3	57.6	55.0	54.3	53.3	53.1	53.6
06:00 - 07:00	57.4	57.1	54.2	54.9	53.3	53.4	53.2
07:00 - 08:00	56.8	56.7	54.3	54.7	53.2	52.9	52.9
08:00 - 09:00	57.0	57.4	54.3	55.4	52.8	52.8	52.9
09:00 - 10:00	52.9	56.5	54.5	55.3	52.6	53.1	53.2
10:00 - 11:00	54.7	57.5	55.0	55.1	53.3	52.6	53.5
L90(avg)*	56.3	57.2	54.4	55.2	53.5	53.3	53.0

Remark : * Average time between 11:00-11:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : North Fence Monitor Period : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00487729
Site Operator : Mr. Phuwadech Kaewjirakulsi

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 94.0/0.0 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	Equivalent Sound Pressure Level (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
09:00 - 10:00	66.3	66.6	65.3	65.6	64.7	65.4	65.0
10:00 - 11:00	66.1	66.6	65.1	65.5	65.0	65.6	65.1
11:00 - 12:00	66.6	66.5	65.1	65.2	64.9	65.5	64.9
12:00 - 13:00	66.7	66.4	64.9	65.3	64.9	65.8	65.0
13:00 - 14:00	66.8	66.5	65.0	65.2	64.9	65.6	65.3
14:00 - 15:00	67.0	66.4	65.2	65.1	65.0	65.4	65.4
15:00 - 16:00	67.3	66.3	65.7	67.4	65.2	65.4	65.5
16:00 - 17:00	66.7	66.2	65.5	67.1	65.6	65.3	65.2
17:00 - 18:00	66.5	66.1	65.7	65.9	66.1	65.2	66.1
18:00 - 19:00	66.4	66.3	65.6	65.5	66.1	65.2	68.3
19:00 - 20:00	66.5	66.1	65.9	65.6	66.2	65.1	67.6
20:00 - 21:00	66.2	66.5	65.8	65.4	66.1	65.2	65.0
21:00 - 22:00	66.4	66.4	65.9	65.3	66.1	65.3	65.2
22:00 - 23:00	66.4	66.6	65.5	65.4	65.9	65.2	65.6
23:00 - 00:00	66.4	66.5	65.8	65.2	66.0	65.4	66.1
00:00 - 01:00	66.4	66.6	65.7	65.3	66.1	65.3	66.1
01:00 - 02:00	66.3	66.7	65.8	65.5	65.9	65.2	66.2
02:00 - 03:00	66.3	66.7	65.7	65.2	65.7	65.3	66.1
03:00 - 04:00	66.8	66.6	65.8	65.0	65.9	65.2	66.1
04:00 - 05:00	66.9	65.9	65.7	65.1	65.8	65.1	65.9
05:00 - 06:00	66.7	65.1	65.8	65.2	65.8	65.3	66.0
06:00 - 07:00	66.7	65.2	65.6	65.6	65.9	65.1	66.1
07:00 - 08:00	66.7	65.1	65.8	65.5	66.0	65.0	65.9
08:00 - 09:00	66.6	65.0	65.9	65.4	65.4	65.1	65.7

Leq(24)*	66.6	66.2	65.6	65.6	65.7	65.3	65.9
Ldn	73.0	72.7	72.1	71.8	72.2	71.7	72.4
Lmax**	70.5	78.0	70.5	72.6	75.9	69.9	75.9

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

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

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

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : North Fence Monitor Period : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00487729
Site Operator : Mr. Phuwadech Kaewjirakulsi

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 94.0/0.0 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	L90 (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
09:00 - 10:00	65.7	66.1	64.6	65.2	64.2	65.0	64.4
10:00 - 11:00	65.5	66.2	64.6	65.0	64.4	65.1	64.5
11:00 - 12:00	65.9	66.1	64.6	64.7	64.4	65.0	64.5
12:00 - 13:00	66.2	66.0	64.3	64.8	64.6	65.3	64.5
13:00 - 14:00	66.3	66.1	64.3	64.5	64.5	65.2	64.7
14:00 - 15:00	66.5	66.0	64.6	64.4	64.6	65.0	64.9
15:00 - 16:00	66.6	65.9	64.9	65.2	64.5	65.0	64.7
16:00 - 17:00	66.2	65.8	64.8	65.1	64.9	65.0	64.4
17:00 - 18:00	66.0	65.7	65.2	65.0	65.5	64.9	65.0
18:00 - 19:00	65.9	65.6	65.1	64.9	65.5	64.9	66.0
19:00 - 20:00	66.0	65.7	65.3	64.9	65.7	64.7	65.8
20:00 - 21:00	65.9	66.0	65.4	64.7	65.6	64.7	64.6
21:00 - 22:00	66.1	65.9	65.4	64.7	65.5	64.8	64.5
22:00 - 23:00	66.1	66.0	65.0	64.7	65.4	64.8	64.9
23:00 - 00:00	66.1	65.9	65.3	64.6	65.5	64.8	65.5
00:00 - 01:00	66.2	66.1	65.3	64.7	65.4	64.7	65.5
01:00 - 02:00	66.0	66.1	65.3	64.7	65.4	64.7	65.7
02:00 - 03:00	66.1	66.1	65.2	64.6	65.3	64.8	65.6
03:00 - 04:00	66.4	66.1	65.2	64.4	65.2	64.8	65.5
04:00 - 05:00	66.5	64.8	65.3	64.6	65.3	64.6	65.4
05:00 - 06:00	66.2	64.5	65.3	64.7	65.3	64.8	65.5
06:00 - 07:00	66.1	64.3	65.0	65.1	65.3	64.6	65.4
07:00 - 08:00	66.2	64.4	65.2	65.0	65.4	64.5	65.4
08:00 - 09:00	66.0	64.4	65.4	64.8	64.9	64.7	65.3

L90(avg)*	66.1	65.7	65.0	64.8	65.1	64.9	65.1
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Remark : * Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-POSCO

Location : Map Yang Pom Sub-District Health Promoting Hospital Monitor Period : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00187511
Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 93.8/0.2 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	Equivalent Sound Pressure Level (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
13:00 - 14:00	70.1	70.6	70.0	70.0	63.7	73.1	69.6
14:00 - 15:00	69.7	72.5	68.0	68.0	68.0	59.7	67.6
15:00 - 16:00	69.7	64.0	70.7	70.9	65.6	66.6	67.9
16:00 - 17:00	69.0	64.5	65.2	71.0	64.5	70.8	67.5
17:00 - 18:00	70.6	63.3	65.7	72.1	64.2	76.8	68.8
18:00 - 19:00	66.6	60.3	67.1	62.6	69.3	65.8	72.7
19:00 - 20:00	64.3	60.2	67.8	63.8	61.9	63.1	64.7
20:00 - 21:00	65.6	60.0	67.0	61.9	61.9	61.3	62.4
21:00 - 22:00	69.4	60.9	64.7	66.1	56.8	61.7	64.1
22:00 - 23:00	68.9	60.0	65.8	63.6	70.2	64.1	64.1
23:00 - 00:00	64.2	60.2	66.0	63.5	64.9	64.7	64.7
00:00 - 01:00	66.7	60.2	65.1	64.2	61.4	57.8	65.1
01:00 - 02:00	69.1	60.8	64.9	69.1	59.8	60.5	65.1
02:00 - 03:00	64.9	61.0	64.5	69.8	67.9	69.8	63.7
03:00 - 04:00	62.7	62.7	64.9	67.2	66.7	63.7	60.9
04:00 - 05:00	61.2	61.7	65.2	64.0	67.9	64.9	63.7
05:00 - 06:00	60.7	61.7	65.3	67.6	59.3	64.7	64.3
06:00 - 07:00	60.8	62.5	65.0	68.2	57.1	62.0	62.0
07:00 - 08:00	63.7	61.9	65.0	66.2	57.8	68.9	61.7
08:00 - 09:00	63.2	63.0	64.9	64.0	55.7	68.1	62.2
09:00 - 10:00	68.1	62.1	65.1	67.6	56.0	61.0	61.0
10:00 - 11:00	64.7	64.7	65.1	71.3	56.2	68.8	61.9
11:00 - 12:00	68.9	61.1	61.1	61.1	61.4	60.9	60.9
12:00 - 13:00	69.7	62.8	62.8	62.8	61.2	63.6	63.6
Leq(24)*	67.4	64.3	66.2	67.7	64.6	67.9	65.8
Ldn	72.4	68.6	71.9	73.6	72.0	72.1	70.8
Lmax**	91.8	95.1	94.2	94.2	92.5	100.0	95.0
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-POSCO

Location : Map Yang Pom Sub-District Health Promoting Hospital Monitor Period : 13-20 May 2022
SLM Model : RION NL-21 Serial No : 00187511
Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74 Serial No : 34283648
Calibration Ref dB(A) : 94.0 Certified Date : 24 Dec 2021
SLM Reading / Adjust dB(A) : 93.8/0.2 Expire Date : 23 Dec 2022
Cal Sheet No.: NC-74-2022-053

Time	L90 (dB(A))						
	13-14 May 2022	14-15 May 2022	15-16 May 2022	16-17 May 2022	17-18 May 2022	18-19 May 2022	19-20 May 2022
13:00 - 14:00	62.5	66.9	61.6	61.6	61.3	61.8	65.5
14:00 - 15:00	66.0	57.2	58.6	58.6	58.6	56.7	65.5
15:00 - 16:00	61.9	59.7	63.5	62.0	63.6	56.9	65.5
16:00 - 17:00	61.1	62.5	63.6	60.1	61.8	60.2	65.5
17:00 - 18:00	66.9	60.2	64.6	60.5	62.0	61.1	65.5
18:00 - 19:00	63.0	58.8	65.3	60.3	61.2	61.3	61.0
19:00 - 20:00	60.5	58.6	67.1	62.1	56.8	58.0	62.4
20:00 - 21:00	60.1	58.4	65.0	59.3	59.3	57.5	61.0
21:00 - 22:00	65.4	58.0	63.5	65.2	54.5	58.0	62.2
22:00 - 23:00	61.1	58.3	64.2	61.6	58.4	62.5	62.5
23:00 - 00:00	62.6	57.8	64.9	61.8	57.6	62.4	62.4
00:00 - 01:00	61.8	57.6	63.8	63.1	56.3	55.4	62.4
01:00 - 02:00	65.6	58.8	63.2	61.6	56.0	56.2	61.8
02:00 - 03:00	61.9	59.6	63.0	65.9	57.9	58.8	61.2
03:00 - 04:00	60.0	59.6	63.6	61.1	55.2	57.1	56.1
04:00 - 05:00	59.5	58.8	64.0	60.2	56.3	57.6	58.7
05:00 - 06:00	58.9	59.2	63.8	59.7	54.9	59.5	60.0
06:00 - 07:00	58.8	60.0	63.7	61.1	55.3	60.4	60.4
07:00 - 08:00	57.0	59.7	63.6	63.3	55.7	62.4	60.0
08:00 - 09:00	58.2	59.7	63.6	60.2	54.6	62.1	58.0
09:00 - 10:00	59.1	59.0	63.9	59.7	54.4	58.5	58.5
10:00 - 11:00	60.3	60.3	64.1	66.4	54.1	60.4	56.7
11:00 - 12:00	61.1	55.5	55.5	55.5	54.3	56.1	56.1
12:00 - 13:00	66.0	57.4	57.4	57.4	54.2	59.0	59.0
L90(avg)*	62.5	59.9	63.7	61.9	58.3	59.7	62.1

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

คุณภาพน้ำทิ้ง



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0092/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/01/2022	SAMPLING TIME	: 09.34
RECEIVED DATE	: 19/01/2022	ANALYTICAL DATE	: 19-24/01/2022
REPORT DATE	: 25/01/2022	SITE OPERATOR	: Mr. Chanatip Singkasemsak
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_January

PARAMETER	UNIT	ANALYSIS	ND	STATION		STANDARD ^U
		METHODS	(non-detectable)	บ่อกักน้ำทิ้งสุดท้ายของโครงการ		
				(Holding Pond)		
Temperature	°C	2550 B	< 0.5	35.4		≤ 45
pH		4500-H ⁺ B	< 0.10	7.20		5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	1,546		
Total Dissolved Solids	mg/l	2540 C	< 50	788		≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	17		≤ 200
BOD ₅	mg/l	5210 B	< 1.0	27.9		≤ 500
COD	mg/l	5220 D	< 40.00	81.14		≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND		≤ 10
Total Chromium	mg/l	3120 B	< 0.001	< 0.01		
Zinc	mg/l	3120 B	< 0.003	0.47		≤ 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-5976

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0339/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/02/2022	SAMPLING TIME	: 09.00
RECEIVED DATE	: 22/02/2022	ANALYTICAL DATE	: 22-28/02/2022
REPORT DATE	: 02/03/2022	SITE OPERATOR	: Mr. Chanatip Singkasemsak
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_February

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD ^{1/}
		METHODS	(non-detectable)	บ่อกักน้ำทิ้งสุดท้ายของโครงการ	
				(Holding Pond)	
Temperature	°C	2550 B	< 0.5	34.0	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.26	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	1,239	
Total Dissolved Solids	mg/l	2540 C	< 50	718	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	20	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	27.6	≤ 500
COD	mg/l	5220 D	< 40.00	66.22	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	
Zinc	mg/l	3120 B	< 0.003	0.26	≤ 5.0

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.	: 0588/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/03/2022	SAMPLING TIME	: 11.04
RECEIVED DATE	: 22/03/2022	ANALYTICAL DATE	: 22-28/03/2022
REPORT DATE	: 28/03/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	33.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.10	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,462	-
Total Dissolved Solids	mg/l	2540 C	< 50	856	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	15	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	21.9	≤ 500
COD	mg/l	5220 D	< 40.00	66.53	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
Total Chromium	mg/l	3120 B	< 0.001	ND	-
Zinc	mg/l	3120 B	< 0.003	0.28	≤ 5.0

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.	: 0809/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/04/2022	SAMPLING TIME	: 09.40
RECEIVED DATE	: 20/04/2022	ANALYTICAL DATE	: 20-25/04/2022
REPORT DATE	: 26/04/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	36.1	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.09	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,239	-
Total Dissolved Solids	mg/l	2540 C	< 50	634	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	15	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	32.0	≤ 500
COD	mg/l	5220 D	< 40.00	67.33	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-
Zinc	mg/l	3120 B	< 0.003	0.27	≤ 5.0

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

Khemchuda Insorn

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Analyst

REG. NO. 7-239-ก-5976

Araya Tipparuk

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Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1088/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 20/05/2022	SAMPLING TIME	: 15.41
RECEIVED DATE	: 21/05/2022	ANALYTICAL DATE	: 21-30/05/2022
REPORT DATE	: 30/05/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	35.8	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.05	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,644	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,060	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	12	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	27.2	≤ 500
COD	mg/l	5220 D	< 40.00	57.51	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	0.71	≤ 10
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-
Zinc	mg/l	3120 B	< 0.003	0.61	≤ 5.0

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

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Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1350/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/06/2022	SAMPLING TIME	: 11.22
RECEIVED DATE	: 22/06/2022	ANALYTICAL DATE	: 22-28/06/2022
REPORT DATE	: 28/06/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	38.4	≤ 45
pH	-	4500-H ⁺ B	< 0.10	7.36	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,620	-
Total Dissolved Solids	mg/l	2540 C	< 50	890	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	16	≤ 200
BOD ₅	mg/l	5210 B	< 1.0	24.5	≤ 500
COD	mg/l	5220 D	< 40.00	59.50	≤ 750
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 10
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-
Zinc	mg/l	3120 B	< 0.003	0.22	≤ 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. 7-239-ก-5976

(Mrs. Araya Tipparuk)

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0092/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 18/01/2022	SAMPLING TIME	: 09.50
RECEIVED DATE	: 19/01/2022	ANALYTICAL DATE	: 19-24/01/2022
REPORT DATE	: 25/01/2022	SITE OPERATOR	: Mr. Chanatip Singkasemsak
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_January

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.43	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	246	-
Total Dissolved Solids	mg/l	2540 C	< 50	50	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21ST ED. 2017 (AWWA ALPHA WEB)

Khemchuda Insom

(Miss Khemchuda Insom)

Analyst

REG. NO. 2-239-ก-5976

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-5863

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

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3. ^{1/} Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0339/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/02/2022	SAMPLING TIME	: 09.10
RECEIVED DATE	: 22/02/2022	ANALYTICAL DATE	: 22-28/02/2022
REPORT DATE	: 02/03/2022	SITE OPERATOR	: Mr. Chanatip Singkasemsak
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_February

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.91	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	815	-
Total Dissolved Solids	mg/l	2540 C	< 50	394	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	0.02	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21ST ED. 2017 (AWWA ALPHA WEB)

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 0588/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/03/2022	SAMPLING TIME	: 10.50
RECEIVED DATE	: 22/03/2022	ANALYTICAL DATE	: 22-28/03/2022
REPORT DATE	: 28/03/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_March

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.23	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	672	-
Total Dissolved Solids	mg/l	2540 C	< 50	450	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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.	: 0809/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/04/2022	SAMPLING TIME	: 09.55
RECEIVED DATE	: 20/04/2022	ANALYTICAL DATE	: 20-25/04/2022
REPORT DATE	: 26/04/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_April

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	8.34	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	421	-
Total Dissolved Solids	mg/l	2540 C	< 50	140	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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

Khemchuda Insom

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1088/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 20/05/2022	SAMPLING TIME	: 15.21
RECEIVED DATE	: 21/05/2022	ANALYTICAL DATE	: 21-30/05/2022
REPORT DATE	: 30/05/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุติระบาน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.75	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	239	-
Total Dissolved Solids	mg/l	2540 C	< 50	81	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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

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(Miss Khemchuda Insom)

Analyst

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1350/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 21/06/2022	SAMPLING TIME	: 11.35
RECEIVED DATE	: 22/06/2022	ANALYTICAL DATE	: 22-28/06/2022
REPORT DATE	: 28/06/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุติระบาน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD ^{1/}
pH	-	4500-H ⁺ B	< 0.10	7.84	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	191	-
Total Dissolved Solids	mg/l	2540 C	< 50	76	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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

Khemchuda Insom

(Miss Khemchuda Insom)

Analyst

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	1112/65
SAMPLING BY	SECOT Co., Ltd.	SAMPLING METHOD	Pneumatic Bladder Pump
SAMPLING DATE	24/05/2022	SAMPLING TIME	09:47-10:10
RECEIVED DATE	25/05/2022	ANALYTICAL DATE	25-31/05/2022
REPORT DATE	01/06/2022	SITE OPERATOR	Mr. Chanatip Singkasemsak
SAMPLE CONDITION	Normal	FILE CODE	222018_GW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION GW1	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	29.3	-
pH	-	4500-H ⁺ B	< 0.10	6.10	6.5 - 9.2
Total Dissolved Solids	mg/l	2540 C	< 50	188	-
Total Suspended Solids	mg/l	2540 D	< 5	206	-
Total Coliform Bacteria*	MPN/100 ml	9221 B	< 1.8	49	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0216	≤ 0.1
Total Chromium (T-Cr)	mg/l	3120 B	< 0.001	< 0.01	≤ 6.0
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	-
Lead (Pb)	mg/l	3120 B	< 0.008	0.05	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	ND	≤ 5.0

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

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3. ^{1/} Notification of the Ministry of Industry, B.E.2559 (2016).

4.* Total Coliform Bacteria analysis was performed by TEST TECH Co.,Ltd.

5. - Not available.



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GROUND WATER ANALYSIS REPORT

CLIENT NAME	Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	1112/65
SAMPLING BY	SECOT Co., Ltd.	SAMPLING METHOD	Pneumatic Bladder Pump
SAMPLING DATE	24/05/2022	SAMPLING TIME	10:17-10:34
RECEIVED DATE	25/05/2022	ANALYTICAL DATE	25-31/05/2022
REPORT DATE	01/06/2022	SITE OPERATOR	Mr. Chanatip Singkasemsak
SAMPLE CONDITION	Normal	FILE CODE	222018_GW_May

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION GW2	STANDARD ^{1/}
Temperature	°C	2550 B	< 0.5	30.1	-
pH	-	4500-H ⁺ B	< 0.10	6.19	6.5 - 9.2
Total Dissolved Solids	mg/l	2540 C	< 50	152	-
Total Suspended Solids	mg/l	2540 D	< 5	406	-
Total Coliform Bacteria*	MPN/100 ml	9221 B	< 1.8	< 1.8	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.3720	≤ 0.1
Total Chromium (T-Cr)	mg/l	3120 B	< 0.001	< 0.01	≤ 6.0
Copper (Cu)	mg/l	3120 B	< 0.001	< 0.02	-
Lead (Pb)	mg/l	3120 B	< 0.008	0.16	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	0.0005	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	< 0.01	≤ 5.0

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

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Feb22
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 22/02/2022 MODEL NO. : HS-32 SERIAL NO. : MCC100029
MEASUREMENT LOCATION : Process Area CALIBRATEOR : Dry Well
SITE OPERATION : Mr. Natchapon Kadu MODEL NO. : 9140 HDRC SERIAL NO. : AOA890

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Ave}	
Annealing Furnace	10.00-10.30	26.2	33.1	35.3	28.9	28.8	34.0
	10.30-11.00	26.1	33.1	35.2	28.8		
	11.00-11.30	26.0	33.1	35.2	28.8		
	11.30-12.00	25.9	33.1	35.1	28.7		

(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-222018-Cer-Heat/Feb22 (2)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 22/02/2022 MODEL NO. : QUESTEMP[®]34 SERIAL NO. : TEH060119
MEASUREMENT LOCATION : Process Area CALIBRATEOR : Dry Well
SITE OPERATION : Mr. Natchapon Kadu MODEL NO. : 9140 HDRC SERIAL NO. : AOA 890

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Ave}	
Galvannealing Furnace	10.15-10.45	26.8	38.6	38.8	30.4	30.5	34.0
	10.45-11.15	26.7	38.5	38.7	30.3		
	11.15-11.45	27.0	38.2	38.9	30.6		
	11.45-12.15	26.9	38.3	38.9	30.5		

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

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Technical Management Team

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4. NWB = Natural Wet Bulb Temperature

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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-222018-Cer-Heat/Feb22 (3)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 22/02/2022 MODEL NO. : QUESTEMP[®]34 SERIAL NO. : TEL070017
MEASUREMENT LOCATION : Process Area CALIBRATEOR : Dry Well
SITE OPERATION : Mr. Natchapon Kadu MODEL NO. : 9140 HDRC SERIAL NO. : AOA 890

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Coater&Oven	10.30-11.00	25.1	32.3	32.7	27.4	28.0	34.0
	11.00-11.30	26.6	32.3	32.7	28.4		
	11.30-12.00	26.3	32.3	32.6	28.2		
	12.00-12.30	26.0	32.3	32.6	28.0		

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DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Feb22 (4)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 22/02/2022 MODEL NO. : Microtherm SERIAL NO. : 047890
MEASUREMENT LOCATION : Process Area CALIBRATEOR : Digital Thermocouple Calibrator
SITE OPERATION : Mr. Natchapon Kadu MODEL NO. : 714 SERIAL NO. : 7590122

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Boiler	10.45-11.15	26.1	31.0	32.0	27.9	28.1	34.0
	11.15-11.45	26.8	31.0	32.0	28.4		
	11.45-12.15	26.6	31.0	32.0	28.2		
	12.15-12.45	26.0	30.9	31.9	27.8		

(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-222018-Cer-Heat/Feb22 (5)
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 22/02/2022 MODEL NO. : Microtherm SERIAL NO. : 0462505
MEASUREMENT LOCATION : Process Area CALIBRATEOR : Digital Thermocouple Calibrator
SITE OPERATION : Mr. Natchapon Kadu MODEL NO. : 714 SERIAL NO. : 7590122

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Chromium Plating	11.00-11.30	28.7	35.1	35.5	30.7	31.2	34.0
	11.30-12.00	29.7	35.1	35.5	31.4		
	12.00-12.30	29.5	35.1	35.5	31.3		
	12.30-13.00	29.4	35.0	35.5	31.2		

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/May22
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
MEASUREMENT DATE : 20/05/2022 MODEL NO. : Questemp °46 SERIAL NO. : TSQ090004
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Phakphum Thanthai

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Annealing Furnace	10.05-10.35	27.3	35.2	39.1	30.8	30.9	34.0
	10.35-11.05	27.3	35.2	39.1	30.8		
	11.05-11.35	27.4	35.4	39.1	30.9		
	11.35-12.05	27.5	35.5	39.2	31.0		
Coater&Oven	13.00-13.30	27.5	32.8	33.4	29.3	29.2	34.0
	13.30-14.00	27.4	32.8	33.4	29.2		
	14.00-14.30	27.5	32.8	33.4	29.3		
	14.30-15.00	27.3	32.7	33.4	29.1		

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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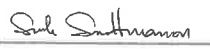
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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/May22
 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
 MEASUREMENT DATE : 20/05/2022 MODEL NO. : Questemp 46 SERIAL NO. : TSM050002
 MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Phakphum Thanthai

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Boiler	10.10-10.40	28.1	33.2	34.2	29.9	30.1	34.0
	10.40-11.10	28.3	33.2	34.2	30.1		
	11.10-11.40	28.4	33.2	34.2	30.1		
	11.40-12.10	28.5	33.3	34.2	30.2		
Chromium Plating	13.10-13.40	28.2	35.0	35.2	30.3	30.3	34.0
	13.40-14.10	28.3	35.0	35.1	30.3		
	14.10-14.40	28.3	34.9	35.1	30.3		
	14.40-15.10	28.4	34.9	35.1	30.4		


 (Miss Katesarin Vorradetwittaya)
 Environmental Scientist


 (Miss Sununta Sirawuttinanon)
 Technical Management Team

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HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/May22
 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor
 MEASUREMENT DATE : 20/05/2022 MODEL NO. : Questemp 46 SERIAL NO. : TSR010002
 MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Phakphum Thanthai

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT _{Avg}	
Galvannealing Furnace	10.00-10.30	27.4	35.6	39.2	30.9	31.6	34.0
	10.30-11.00	28.8	37.3	38.5	31.7		
	11.00-11.30	28.8	37.4	38.5	31.7		
	11.30-12.00	29.1	37.8	38.4	31.9		


 (Miss Katesarin Vorradetwittaya)
 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.	: 0373/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/02/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 25/02/2022
		Test Date	: 02/03/2022
Tel/Fax	: 038 -6272421	Report Date	: 15/03/2022

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 Furnae	22/02/2022 10:41-12:41	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	22/02/2022 10:41-12:41	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5
Raw Material Area	22/02/2022 11:20-13:20	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	22/02/2022 11:20-13:20	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5

Analyst By: Phatchara Samanchan
(Miss Phatchara Samanchan)

Approved By: Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
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.	: 0373/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/02/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 25/02/2022
		Test Date	: 03/03/2022
Tel/Fax	: 038 -6272421	Report Date	: 15/03/2022

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	22/02/2022 10:34-14:34	Zinc oxide fume	NIOSH 7030/FAAS	< 0.002	ND	5 ^u
Chromium Plating	22/02/2022 11:10-15:10	Sodium hydroxide	OSHA 121/FAAS	< 0.004	ND	1 ^u
	22/02/2022 11:10-15:10	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5 ^v
Coater&Oven	22/02/2022 11:00-15:00	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5 ^u

Analyst By: Krisana Chanthoom
(Miss Krisana Chanthoom)

Approved By: Narisa Poowasanpetch
(Miss Narisa Poowasanpetch)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 0373/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/02/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 25/02/2022
Tel/Fax	: 038-6272421	Test Date	: 01/03/2022
		Report Date	: 15/03/2022

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	22/02/2022 11:10-15:10	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1

Analyst By: Phatchara Samanchan
(Miss Phatchara Samanchan)

Approved By: Naim Leawasanpeth
(Miss Narisa Poowasanpetch)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 1117/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 20/05/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 25/05/2022
Tel/Fax	: 038-6272421	Test Date	: 30/05/2022
		Report Date	: 07/06/2022

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	20/05/2022 11:00-13:00	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	20/05/2022 11:00-13:00	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5
Raw Material Area	20/05/2022 11:25-13:25	Total dust	NIOSH 0500 /Microbalance	< 0.25	ND	15
	20/05/2022 11:25-13:25	Respirable dust	NIOSH 0600 /Microbalance	< 0.25	ND	5

Analyst By: Phatchara Samanchan
(Miss Phatchara Samanchan)

Approved By: Naim Leawasanpeth
(Miss Narisa Poowasanpetch)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 1117/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 20/05/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 25/05/2022
		Test Date	: 27/05/2022
Tel/Fax	: 038 -6272421	Report Date	: 07/06/2022

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	20/05/2022 10:57-14:57	Zinc oxide fume	NIOSH 7030/FAAS	< 0.002	ND	5 ¹⁾
Chromium Plating	20/05/2022 11:32-15:32	Sodium hydroxide	OSHA ID 121/FAAS	< 0.004	0.004	2 ¹⁾
	20/05/2022 11:32-15:32	Chromium fume	NIOSH 7024/FAAS	< 0.002	0.004	0.5 ²⁾
Coater&Oven	20/05/2022 11:43-15:43	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5 ³⁾

Analyst By:
(Miss Krisana Chanthoom)

Approved By:
(Miss Narisa Poowasanpeth)
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 1117/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 20/05/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 25/05/2022
		Test Date	: 26/05/2022
Tel/Fax	: 038 -6272421	Report Date	: 07/06/2022

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	20/05/2022 11:32-15:32	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1

Analyst By: Phatchara Samanchan
(Miss Phatchara Samanchan)

Approved By:
(Miss Narisa Poowasanpeth)
Technical Management Team

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ระดับเสียงในบริเวณสถานที่ทำงาน



Noise Monitoring Result : Working Noise


MTR-POSCO

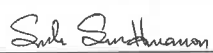
Location	: Annealing Furnace	Monitor Period	: May 20, 2022
SLM Model	: Cirrus CR162C	Serial No.	: G301029
Site Operator	: Mr. Watcharakan Pramakhate		

Calibrator Model	: Cirrus CR:515	Serial No.	: 94296
Calibration Ref dB(A)	: 94.0	Certified Date	: Dec 24, 2021
SLM Reading / Adjus dB(A)	: 93.7/0.0	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-012		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	May 20, 2022
11.00-19.00	103.7
Standard*	140

Remark : * Noise standard was notified in the Ministerial Regulations of Labour, B.E.2559 (2016).


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise


MTR-POSCO

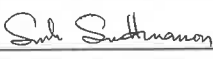
Location	: Air Knives	Monitor Period	: May 20, 2022
SLM Model	: Cirrus CR161B	Serial No.	: G302738
Site Operator	: Mr. Watcharakan Pramakhate		

Calibrator Model	: Cirrus CR:515	Serial No.	: 94296
Calibration Ref dB(A)	: 94.0	Certified Date	: Dec 24, 2021
SLM Reading / Adjus dB(A)	: 93.7/0.0	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-012		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	May 20, 2022
11.00-19.00	110.0
Standard*	140

Remark : * Noise standard was notified in the Ministerial Regulations of Labour, B.E.2559 (2016).


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Sununta Sirawuttinanon)
Technical Management Team



Noise Monitoring Result : Working Noise MTR-POSCO

Location	: Skin Pass Mill	Monitor Period	: May 20, 2022
SLM Model	: Cirrus CR161B	Serial No.	: G302740
Site Operator	: Mr. Watcharakan Pramakhate		

Calibrator Model	: Cirrus CR:515	Serial No.	: 94296
Calibration Ref dB(A)	: 94.0	Certified Date	: Dec 24, 2021
SLM Reading / Adjus dB(A)	: 93.7/0.0	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-012		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	May 20, 2022
11.00-19.00	93.6
Standard*	140

Remark : * Noise standard was notified in the Ministerial Regulations of Labour, B.E.2559 (2016).



Noise Monitoring Result : Working Noise MTR-POSCO

Location	: Trimmer	Monitor Period	: May 20, 2022
SLM Model	: Cirrus CR161B	Serial No.	: G302633
Site Operator	: Mr. Watcharakan Pramakhate		

Calibrator Model	: Cirrus CR:515	Serial No.	: 94296
Calibration Ref dB(A)	: 94.0	Certified Date	: Dec 24, 2021
SLM Reading / Adjus dB(A)	: 93.7/0.0	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-012		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	May 20, 2022
10.00-18.00	102.1
Standard*	140

Remark : * Noise standard was notified in the Ministerial Regulations of Labour, B.E.2559 (2016).

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NOISE MEASUREMENT RESULT : NOISE DOSE

CLIENT NAME	: POSCO Coated Steel (Thailand) Co., Ltd.	REFERENCE NO.	: POSCO-222018-Cert-NsDose/May22
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 20/05/2022	CALIBRATOR TYPE	: RC:110A
MEASUREMENT LOCATION	: Process area	SERIAL NO.	: 95168
SITE OPERATOR	: Mr. Watcharakan Pramakhate	CALIBRATOR REF.	: 1,000 Hz, 114 dB

USER NAME	TIME	% DOSE	SOUND PRESSURE LEVEL (dBA)	
			TWA (8 hr)	STANDARD*
Operator Annealing Furnace	10.16-18.16	9.1	74.6	85.0

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Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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



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NOISE MEASUREMENT RESULT : NOISE DOSE

CLIENT NAME	: POSCO Coated Steel (Thailand) Co., Ltd.	REFERENCE NO.	: POSCO-222018-Cert-NsDose/May22
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 20/05/2022	CALIBRATOR TYPE	: RC:110A
MEASUREMENT LOCATION	: Process area	SERIAL NO.	: 95168
SITE OPERATOR	: Mr. Watcharakan Pramakhate	CALIBRATOR REF.	: 1,000 Hz, 114 dB

USER NAME	TIME	% DOSE	SOUND PRESSURE LEVEL (dBA)	
			TWA (8 hr)	STANDARD*
Operator Air Knives	10.20-18.20	458.0	91.6	85.0

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NOISE MEASUREMENT RESULT : NOISE DOSE

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cert-NsDose/May22
 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Noise Dosimeter
 MEASUREMENT DATE : 20/05/2022 CALIBRATOR TYPE : RC:110A
 MEASUREMENT LOCATION : Process area SERIAL NO. : 95168
 SITE OPERATOR : Mr. Watcharakan Pramakhate CALIBRATOR REF. : 1,000 Hz, 114 dB

USER NAME	TIME	% DOSE	SOUND PRESSURE LEVEL (dBA)	
			TWA (8 hr)	STANDARD*
Operator Skin Pass Mill	10,16-18,16	66.7	83.2	85.0

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NOISE MEASUREMENT RESULT : NOISE DOSE

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 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Noise Dosimeter
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 MEASUREMENT LOCATION : Process area SERIAL NO. : 95168
 SITE OPERATOR : Mr. Watcharakan Pramakhate CALIBRATOR REF. : 1,000 Hz, 114 dB

USER NAME	TIME	% DOSE	SOUND PRESSURE LEVEL (dBA)	
			TWA (8 hr)	STANDARD*
Operator Trimmer	10.16-18.16	20.1	78.1	85.0

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