

ภาคผนวก ค

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ใบรับรองผลการตรวจวัดและวิเคราะห์

## คุณภาพอากาศในบรรยากาศ

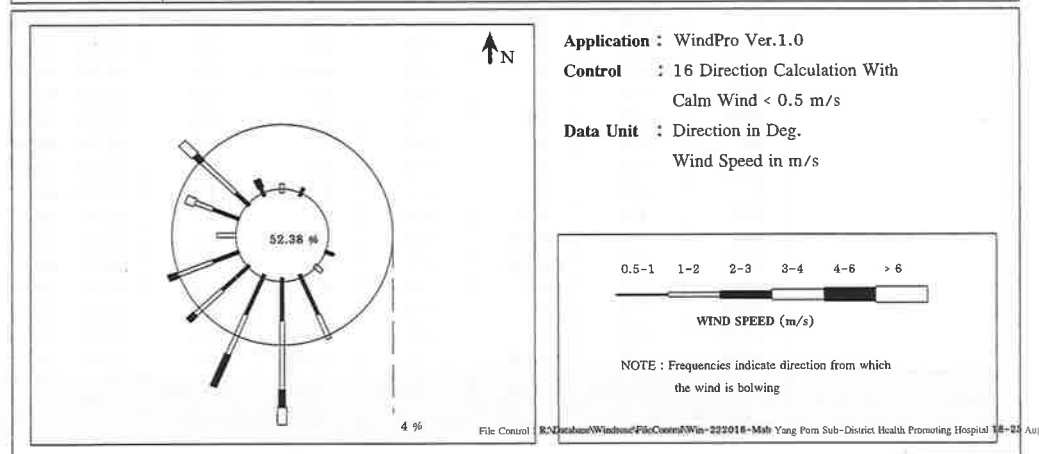
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## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital      Monitor period : 18-25 Aug 2022  
Wind Speed Model : NRG Symphonie      Serial No : A4904  
Wind Direction Model : NRG Symphonie      Serial No : A4904

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	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NNE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SSE	0.0298	0.0179	0.0000	0.0000	0.0000	0.0000	0.0476
S	0.0298	0.0476	0.0119	0.0119	0.0000	0.0000	0.1012
SSW	0.0298	0.0298	0.0238	0.0000	0.0000	0.0000	0.0833
SW	0.0238	0.0238	0.0060	0.0000	0.0000	0.0000	0.0536
WSW	0.0179	0.0238	0.0060	0.0000	0.0000	0.0000	0.0476
W	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
WNW	0.0179	0.0119	0.0000	0.0060	0.0000	0.0000	0.0357
NW	0.0119	0.0298	0.0060	0.0119	0.0000	0.0000	0.0595
NNW	0.0060	0.0000	0.0060	0.0000	0.0000	0.0000	0.0119
CALM	0.5238						



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

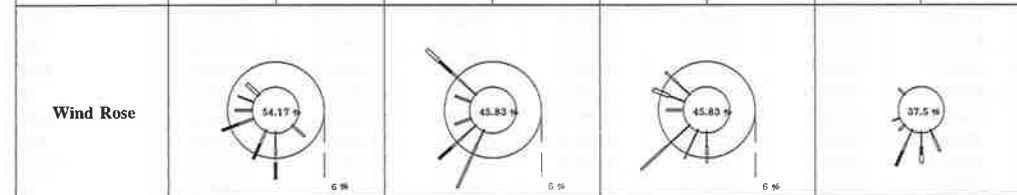
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital      Monitor period : 18-25 Aug 2022  
Wind Speed Model : NRG Symphonie      Serial No : A4904  
Wind Direction Model : NRG Symphonie      Serial No : A4904

Time	18-19 Aug 2022		19-20 Aug 2022		20-21 Aug 2022		21-22 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	2.4	WSW	3.6	NW	1.8	NW	1.7	SW
12:00 - 13:00	2.5	SSW	1.4	WSW	1.1	W	2.5	SSW
13:00 - 14:00	2.0	S	1.7	WNW	3.0	WNW	2.1	SSW
14:00 - 15:00	0.4	WNW	2.8	NW	0.4	NNE	1.5	SSW
15:00 - 16:00	0.9	WNW	1.1	NW	0.7	NW	2.4	S
16:00 - 17:00	0.2	SW	0.9	SSW	0.9	S	0.0	S
17:00 - 18:00	1.3	WSW	1.7	SSW	0.3	SSW	0.9	S
18:00 - 19:00	0.0	SSW	0.0	SSW	0.8	SW	0.8	SSW
19:00 - 20:00	1.7	S	0.0	SSW	0.0	NW	1.2	SSE
20:00 - 21:00	0.5	S	0.0	SSW	0.2	NNW	0.0	SE
21:00 - 22:00	0.0	SSE	0.0	S	0.0	W	1.1	SSE
22:00 - 23:00	0.2	S	0.0	SSW	0.0	NW	0.8	SSE
23:00 - 24:00	1.1	SE	0.8	NW	0.0	WSW	0.4	S
00:00 - 01:00	0.0	SW	0.5	SW	0.5	SSW	3.0	S
01:00 - 02:00	0.0	WNW	0.0	NW	0.0	W	0.6	S
02:00 - 03:00	0.0	W	0.0	SW	0.5	SW	0.2	SSE
03:00 - 04:00	0.0	SW	0.0	WNW	0.0	S	0.4	S
04:00 - 05:00	0.0	SW	0.0	SW	0.4	SSE	0.0	SW
05:00 - 06:00	0.0	S	0.0	SW	0.0	S	0.0	S
06:00 - 07:00	0.2	W	1.0	SSW	1.0	SW	0.3	SSW
07:00 - 08:00	1.3	W	1.2	SW	1.7	S	0.0	SSW
08:00 - 09:00	0.0	WNW	0.0	SW	0.9	SSW	0.9	SSW
09:00 - 10:00	1.1	SSW	1.2	SSW	1.7	SW	0.8	WSW
10:00 - 11:00	3.0	NW	2.4	SW	0.5	WNW	1.3	NW



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

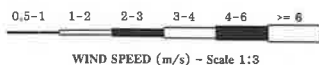
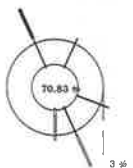
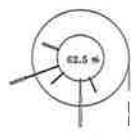
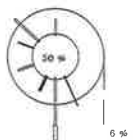


## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital      Monitor period : 18-25 Aug 2022  
Wind Speed Model : NRG Symphonie      Serial No : A4904  
Wind Direction Model : NRG Symphonie      Serial No : A4904

Time	22-23 Aug 2022		23-24 Aug 2022		24-25 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.5	WSW	1.1	WSW	2.5	NNW
12:00 - 13:00	0.8	WNW	1.9	S	0.2	NNW
13:00 - 14:00	2.2	SSW	0.3	W	0.3	NNW
14:00 - 15:00	1.2	N	0.5	SW	0.2	NNW
15:00 - 16:00	1.3	NW	1.4	WNW	0.4	SSW
16:00 - 17:00	1.7	S	0.9	WSW	0.8	SSE
17:00 - 18:00	1.4	S	0.9	SSE	0.9	ESE
18:00 - 19:00	3.3	S	1.4	S	1.2	S
19:00 - 20:00	0.3	SW	0.0	S	1.2	SSE
20:00 - 21:00	1.0	S	0.8	S	0.0	SE
21:00 - 22:00	0.0	W	0.4	SSE	0.7	NNE
22:00 - 23:00	0.0	SW	0.0	S	0.3	SSE
23:00 - 24:00	0.0	WNW	0.0	S	0.0	W
00:00 - 01:00	0.7	SSE	0.0	S	0.0	SSW
01:00 - 02:00	0.0	SSW	0.0	SSE	0.0	S
02:00 - 03:00	0.2	SSE	0.0	SSW	0.0	N
03:00 - 04:00	0.0	S	0.0	N	0.7	NNW
04:00 - 05:00	0.0	SW	0.0	WNW	0.0	SE
05:00 - 06:00	0.0	W	0.0	SSW	0.0	WSW
06:00 - 07:00	0.0	S	0.0	SSE	0.0	S
07:00 - 08:00	1.6	NW	0.7	WSW	0.0	SE
08:00 - 09:00	0.0	S	0.4	N	0.0	SE
09:00 - 10:00	0.0	NW	0.0	NW	0.0	SSE
10:00 - 11:00	0.5	SSE	0.0	W	0.0	SE

Wind Rose



File Control : R:\Database\Windrose\FileControl\Win-222018-Mab Yang Pom Sub-District Health Promoting Hospital 18-25 Aug 2022

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

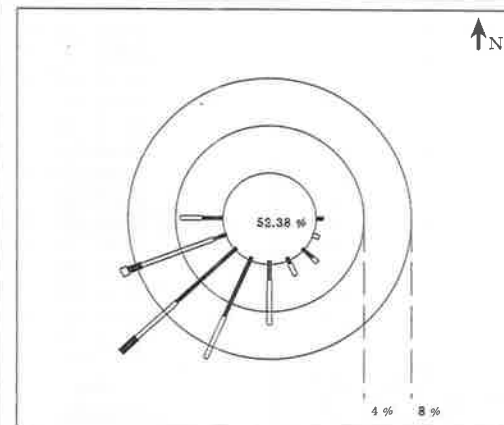
(Miss Preeda Somjai)  
Technical Management Team



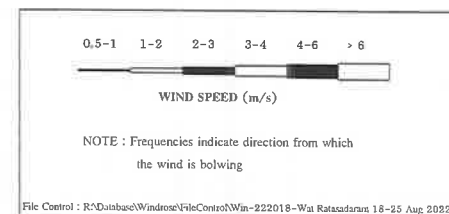
## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadaram      Monitor period : 18-25 Aug 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						
	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	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
ESE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
SSE	0.0060	0.0119	0.0000	0.0000	0.0000	0.0000	0.0179
S	0.0179	0.0417	0.0000	0.0000	0.0000	0.0000	0.0595
SSW	0.0595	0.0417	0.0000	0.0000	0.0000	0.0000	0.1012
SW	0.0714	0.0476	0.0179	0.0000	0.0000	0.0000	0.1369
WSW	0.0119	0.0655	0.0119	0.0060	0.0000	0.0000	0.0952
W	0.0179	0.0179	0.0000	0.0000	0.0000	0.0000	0.0357
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	0.5238						



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



File Control : R:\Database\Windrose\FileControl\Win-222018-Wat Ratasadaram 18-25 Aug 2022

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadarn

Monitor period : 18-25 Aug 2022

Wind Speed Model : NRG Symphonie

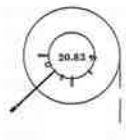
Serial No : A4905

Wind Direction Model : NRG Symphonie

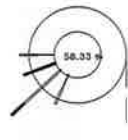
Serial No : A4905

Time	18-19 Aug 2022		19-20 Aug 2022		20-21 Aug 2022		21-22 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.2	SSW	1.2	SW	0.8	SSW	1.4	S
11:00 - 12:00	2.4	SW	2.6	WSW	1.9	S	1.2	SW
12:00 - 13:00	1.8	W	1.5	W	1.8	WSW	1.6	SE
13:00 - 14:00	1.1	SW	0.6	W	0.6	WSW	1.1	SW
14:00 - 15:00	3.0	WSW	2.4	WSW	0.6	WSW	1.9	S
15:00 - 16:00	0.4	NNE	2.0	SW	1.3	SSW	1.0	S
16:00 - 17:00	0.7	W	1.2	SW	1.6	WSW	1.5	SW
17:00 - 18:00	0.9	SE	1.1	SSW	1.2	SSW	0.1	S
18:00 - 19:00	0.3	SSE	1.5	SW	0.9	SSW	0.8	SE
19:00 - 20:00	0.8	S	0.0	WSW	0.4	WSW	0.0	SSW
20:00 - 21:00	0.0	W	0.0	SSW	0.0	W	1.2	ESE
21:00 - 22:00	0.2	WNW	0.0	WSW	0.0	N	0.8	E
22:00 - 23:00	1.0	S	0.0	SSE	0.0	WSW	0.0	S
23:00 - 24:00	0.5	SW	0.0	SW	0.0	WSW	0.0	S
00:00 - 01:00	0.5	SW	0.0	WSW	0.0	SSW	0.0	SSW
01:00 - 02:00	0.4	WSW	0.0	WSW	0.0	SSW	0.9	SW
02:00 - 03:00	0.5	SW	0.0	WSW	0.0	SW	0.0	SSW
03:00 - 04:00	0.6	SW	0.0	WSW	0.0	SSW	0.0	SSW
04:00 - 05:00	0.5	SW	0.0	SW	0.0	SSW	0.0	SW
05:00 - 06:00	0.5	SW	0.0	SW	0.0	SSW	0.0	SW
06:00 - 07:00	0.5	SW	0.0	WSW	0.0	SSW	0.0	SW
07:00 - 08:00	0.5	SW	0.0	SSW	0.6	SSW	0.0	S
08:00 - 09:00	0.5	SW	0.0	SSW	1.3	SSW	0.6	S
09:00 - 10:00	0.5	SW	0.6	SSW	1.0	SSW	0.7	S

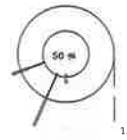
Wind Rose



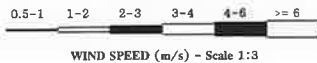
20 %



6 %



12 %



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

File Control : R:\Database\Windrose\FileControl\Win-222018-Wat Ratasadarn 18-25 Aug 2022

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Wat Ratasadarn

Monitor period : 18-25 Aug 2022

Wind Speed Model : NRG Symphonie

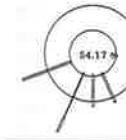
Serial No : A4905

Wind Direction Model : NRG Symphonie

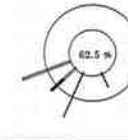
Serial No : A4905

Time	22-23 Aug 2022		23-24 Aug 2022		24-25 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	1.6	WSW	0.0	SSW	0.3	W
11:00 - 12:00	0.9	SSW	2.0	SW	1.0	WSW
12:00 - 13:00	1.7	WSW	1.8	SW	1.6	WSW
13:00 - 14:00	1.8	WSW	1.2	WSW	1.0	W
14:00 - 15:00	1.8	SSW	1.6	WSW	1.6	WSW
15:00 - 16:00	1.7	S	0.2	SW	0.5	W
16:00 - 17:00	0.9	SSW	0.6	SSW	0.5	SW
17:00 - 18:00	1.0	SSE	0.9	SSW	0.3	NNE
18:00 - 19:00	1.0	S	0.1	S	0.0	SE
19:00 - 20:00	1.1	SSE	0.6	SSE	0.3	SE
20:00 - 21:00	0.8	SSW	0.0	S	0.0	ESE
21:00 - 22:00	0.2	SSW	0.0	S	0.0	SSW
22:00 - 23:00	0.0	SW	0.0	SSW	0.0	SW
23:00 - 24:00	0.0	WSW	0.0	SSW	0.0	SSE
00:00 - 01:00	0.0	SE	0.0	S	0.0	SSW
01:00 - 02:00	0.0	SSW	0.0	SE	0.0	SE
02:00 - 03:00	0.0	SSW	0.0	SW	0.4	SE
03:00 - 04:00	0.0	SW	0.0	SSW	0.0	SSW
04:00 - 05:00	0.0	SW	0.0	SSW	0.0	WSW
05:00 - 06:00	0.0	NNE	0.0	WSW	0.0	SW
06:00 - 07:00	0.0	N	0.2	SE	0.0	SSW
07:00 - 08:00	0.0	WSW	0.0	SSW	0.0	S
08:00 - 09:00	0.0	WNW	0.6	SSW	0.0	SSE
09:00 - 10:00	0.1	W	1.6	WSW	0.0	SE

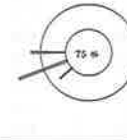
Wind Rose



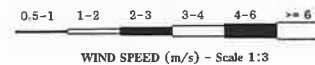
6 %



6 %



6 %



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

File Control : R:\Database\Windrose\FileControl\Win-222018-Wat Ratasadarn 18-25 Aug 2022

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-POSCO

Location : Suangulhab School

Monitor period : 18-25 Aug 2022

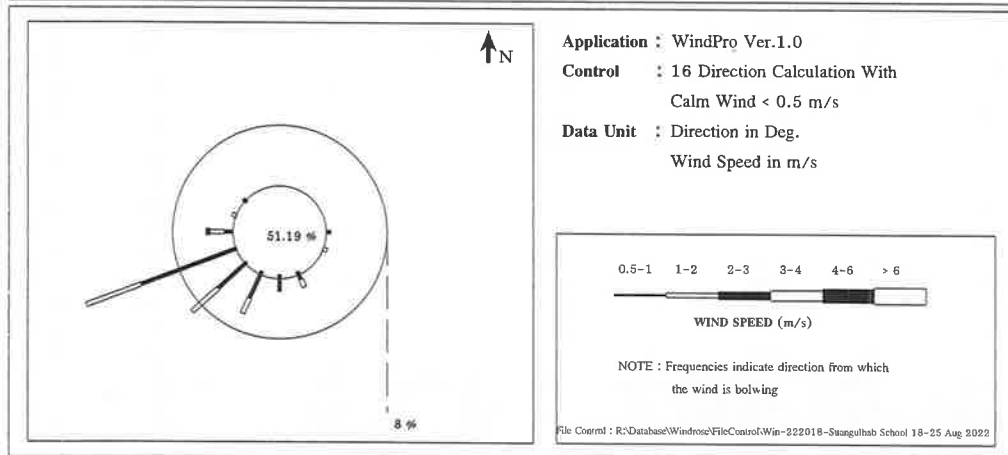
Wind Speed Model : NRG Symphonie

Serial No : A5086

Wind Direction Model : NRG Symphonie

Serial No : A5086

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	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
ESE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
SE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SSE	0.0119	0.0119	0.0000	0.0000	0.0000	0.0000	0.0238
S	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0238
SSW	0.0417	0.0238	0.0000	0.0000	0.0000	0.0000	0.0655
SW	0.0536	0.0476	0.0000	0.0000	0.0000	0.0000	0.1012
WSW	0.1369	0.0774	0.0000	0.0000	0.0000	0.0000	0.2143
W	0.0119	0.0179	0.0060	0.0000	0.0000	0.0000	0.0357
WNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NW	0.0060	0.0000	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	0.5119						



(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 : 18-25 Aug 2022

Wind Speed Model : NRG Symphonie

Serial No : A5086

Wind Direction Model : NRG Symphonie

Serial No : A5086

Time	18-19 Aug 2022		19-20 Aug 2022		20-21 Aug 2022		21-22 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.7	W	2.2	W	1.4	WSW	1.1	WSW
12:00 - 13:00	1.6	SW	1.1	WSW	1.1	SW	1.5	SW
13:00 - 14:00	1.2	WSW	0.9	WSW	1.3	WSW	1.2	SW
14:00 - 15:00	1.3	SW	1.9	WSW	0.5	WSW	1.3	SSW
15:00 - 16:00	0.6	SW	1.2	WSW	0.8	WSW	1.3	ESE
16:00 - 17:00	0.4	W	0.8	WSW	1.0	WSW	0.6	S
17:00 - 18:00	0.9	SW	1.1	WNW	0.6	WSW	0.5	SW
18:00 - 19:00	0.2	SW	0.6	SW	0.7	WSW	0.7	SSE
19:00 - 20:00	1.0	SSW	0.1	SSW	0.3	W	0.5	SSW
20:00 - 21:00	0.3	SSW	0.1	SSW	0.2	WSW	0.5	SSW
21:00 - 22:00	0.2	SSE	0.1	WSW	0.1	WSW	0.8	WSW
22:00 - 23:00	0.5	S	0.1	WSW	0.1	WSW	0.4	WSW
23:00 - 24:00	0.7	SW	0.4	WSW	0.1	WSW	0.3	WSW
00:00 - 01:00	0.3	SW	0.3	WSW	0.3	WSW	1.1	WSW
01:00 - 02:00	0.3	SW	0.1	WSW	0.1	WSW	0.6	WSW
02:00 - 03:00	0.3	SW	0.1	WSW	0.3	SW	0.2	WSW
03:00 - 04:00	0.3	SW	0.1	WSW	0.1	WSW	0.3	WSW
04:00 - 05:00	0.3	SW	0.1	WSW	0.3	WSW	0.1	WSW
05:00 - 06:00	0.3	SW	0.1	WSW	0.1	WSW	0.1	WSW
06:00 - 07:00	0.4	SW	0.5	WSW	0.5	WSW	0.2	WSW
07:00 - 08:00	0.7	WSW	0.5	WSW	0.9	SSW	0.1	SW
08:00 - 09:00	0.3	WSW	0.1	SW	0.9	S	0.6	WSW
09:00 - 10:00	0.7	SW	0.7	SW	1.0	WSW	0.6	SSW
10:00 - 11:00	1.5	W	1.2	WSW	0.8	SSE	1.1	SSW

Wind Rose



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



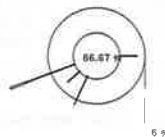
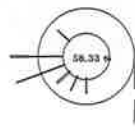
## Meteorological Monitoring Results : Wind Rose

### MTR-POSCO

Location : Suangulhab School Monitor period : 18-25 Aug 2022  
 Wind Speed Model : NRG Symphonie Serial No : A5086  
 Wind Direction Model : NRG Symphonie Serial No : A5086

Time	22-23 Aug 2022		23-24 Aug 2022		24-25 Aug 2022	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	0.9	WSW	1.2	W	1.3	WSW
12:00 - 13:00	1.0	SSE	1.4	SW	0.7	SW
13:00 - 14:00	1.5	SW	0.6	NW	0.6	WSW
14:00 - 15:00	1.1	SSW	0.8	S	0.7	WSW
15:00 - 16:00	1.1	SSE	0.7	W	0.4	WSW
16:00 - 17:00	1.0	WSW	0.6	W	0.6	WSW
17:00 - 18:00	0.9	WSW	0.7	WSW	0.5	SSW
18:00 - 19:00	1.6	SW	0.6	SSW	0.5	E
19:00 - 20:00	0.6	SW	0.3	SSW	0.6	SSW
20:00 - 21:00	0.7	WSW	0.4	SSW	0.1	WSW
21:00 - 22:00	0.2	WSW	0.3	WSW	0.4	WSW
22:00 - 23:00	0.1	WSW	0.1	WSW	0.2	WSW
23:00 - 24:00	0.1	WSW	0.1	WSW	0.1	WSW
00:00 - 01:00	0.4	WSW	0.1	WSW	0.1	WSW
01:00 - 02:00	0.1	WSW	0.1	SW	0.1	WSW
02:00 - 03:00	0.2	WSW	0.1	WSW	0.3	SE
03:00 - 04:00	0.1	WSW	0.1	WSW	0.4	SSE
04:00 - 05:00	0.1	WSW	0.1	WSW	0.1	SW
05:00 - 06:00	0.1	WSW	0.1	WSW	0.1	WSW
06:00 - 07:00	0.1	WSW	0.2	ESE	0.1	WSW
07:00 - 08:00	0.7	WSW	0.4	WSW	0.1	ESE
08:00 - 09:00	0.1	WSW	0.5	WSW	0.1	E
09:00 - 10:00	0.2	SSW	0.7	WSW	0.1	SSE
10:00 - 11:00	0.3	WSW	0.2	WSW	0.2	WSW

Wind Rose



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

File Control : R:\Database\Windrose\FileControl\Win-222018-Suangulhab School 18-25 Aug 2022

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



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\_Aug22  
 SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 18-25/08/2022  
 RECEIVED DATE : 06/09/2022 ANALYTICAL DATE : 06-07/09/2022  
 REPORT DATE : 15/09/2022 SAMPLE CONDITION : Normal  
 SITE OPERATOR : Mr. Puvadate Kaewjirakulsri  
 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)	18-19/08/2022	mg/m <sup>3</sup>	0.031	0.108	0.130	0.330	40 CFR 50 App B
	19-20/08/2022	mg/m <sup>3</sup>	0.040	0.077	0.074		
	20-21/08/2022	mg/m <sup>3</sup>	0.043	0.097	0.050		
	21-22/08/2022	mg/m <sup>3</sup>	0.054	0.129	0.057		
	22-23/08/2022	mg/m <sup>3</sup>	0.064	0.136	0.057		
	23-24/08/2022	mg/m <sup>3</sup>	0.078	0.100	0.051		
	24-25/08/2022	mg/m <sup>3</sup>	0.076	0.082	0.060		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisra 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).



## Ambient Air Monitoring Results : Sulfur dioxide MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital      Monitor Period : 18-25 Aug 2022  
Analyzer Model : API 100A      Station No : SCT-16  
Serial No : 347      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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
11:00 - 12:00	0.0012	0.0008	0.0013	0.0013	0.0012	0.0018	0.0022
12:00 - 13:00	0.0015	0.0010	0.0028	0.0036	0.0013	0.0014	0.0028
13:00 - 14:00	0.0025	0.0008	0.0019	0.0026	0.0010	0.0029	0.0043
14:00 - 15:00	0.0018	0.0004	0.0027	0.0029	0.0004	0.0038	0.0040
15:00 - 16:00	0.0008	0.0007	0.0012	0.0023	0.0027	0.0026	0.0008
16:00 - 17:00	0.0014	0.0004	0.0009	0.0017	0.0013	0.0014	0.0073
17:00 - 18:00	0.0026	0.0015	0.0015	0.0020	0.0013	0.0023	0.0024
18:00 - 19:00	0.0019	0.0010	0.0039	0.0018	0.0027	0.0040	0.0026
19:00 - 20:00	0.0024	0.0019	0.0022	0.0020	0.0014	0.0026	0.0017
20:00 - 21:00	0.0026	0.0028	0.0021	0.0034	0.0013	0.0048	0.0030
21:00 - 22:00	0.0019	0.0028	0.0020	0.0017	0.0015	0.0070	0.0012
22:00 - 23:00	0.0023	0.0016	0.0013	0.0045	0.0023	0.0061	0.0005
23:00 - 00:00	0.0012	0.0007	0.0005	0.0061	0.0018	0.0066	0.0009
00:00 - 01:00	0.0005	0.0004	0.0013	0.0012	0.0008	0.0031	0.0005
01:00 - 02:00	0.0002	0.0008	0.0008	0.0008	0.0013	0.0020	0.0010
02:00 - 03:00	0.0009	0.0007	0.0001	0.0006	0.0027	0.0018	0.0016
03:00 - 04:00	0.0016	0.0004	0.0014	0.0018	0.0018	0.0013	0.0034
04:00 - 05:00	0.0028	0.0008	0.0030	0.0023	0.0025	0.0005	0.0026
05:00 - 06:00	0.0016	0.0009	0.0035	0.0014	0.0028	0.0013	0.0014
06:00 - 07:00	0.0016	0.0007	0.0023	0.0014	0.0018	0.0008	0.0048
07:00 - 08:00	0.0007	0.0003	0.0028	0.0040	0.0024	0.0001	0.0030
08:00 - 09:00	0.0016	0.0010	0.0041	0.0028	0.0003	0.0015	0.0040
09:00 - 10:00	0.0008	0.0015	0.0038	0.0022	0.0009	0.0028	0.0041
10:00 - 11:00	0.0017	0.0008	0.0008	0.0016	0.0016	0.0033	0.0028

Average-24Hr*	0.0016	0.0010	0.0020	0.0023	0.0016	0.0027	0.0026
Max-1Hr	0.0028	0.0028	0.0041	0.0061	0.0028	0.0070	0.0073
Min-1Hr	0.0002	0.0003	0.0001	0.0006	0.0003	0.0001	0.0005

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

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

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Sulfur dioxide MTR-POSCO

Location : Wat Ratasadam      Monitor Period : 18-25 Aug 2022  
Analyzer Model : API 100A      Station No : SCT-19  
Serial No : 069      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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
11:00 - 12:00	0.0035	0.0013	0.0020	0.0009	0.0030	0.0016	0.0003
12:00 - 13:00	0.0025	0.0029	0.0017	0.0018	0.0027	0.0029	0.0004
13:00 - 14:00	0.0017	0.0022	0.0032	0.0025	0.0040	0.0028	0.0006
14:00 - 15:00	0.0028	0.0017	0.0030	0.0026	0.0016	0.0013	0.0007
15:00 - 16:00	0.0018	0.0036	0.0024	0.0007	0.0026	0.0033	0.0008
16:00 - 17:00	0.0007	0.0010	0.0005	0.0016	0.0010	0.0019	0.0017
17:00 - 18:00	0.0004	0.0013	0.0004	0.0018	0.0006	0.0030	0.0024
18:00 - 19:00	0.0017	0.0013	0.0008	0.0013	0.0006	0.0028	0.0027
19:00 - 20:00	0.0018	0.0009	0.0014	0.0028	0.0005	0.0013	0.0007
20:00 - 21:00	0.0008	0.0004	0.0013	0.0024	0.0016	0.0005	0.0016
21:00 - 22:00	0.0003	0.0014	0.0019	0.0016	0.0018	0.0008	0.0017
22:00 - 23:00	0.0005	0.0013	0.0018	0.0014	0.0034	0.0007	0.0004
23:00 - 00:00	0.0006	0.0019	0.0029	0.0017	0.0016	0.0014	0.0006
00:00 - 01:00	0.0007	0.0005	0.0012	0.0019	0.0009	0.0020	0.0023
01:00 - 02:00	0.0016	0.0008	0.0024	0.0021	0.0007	0.0006	0.0009
02:00 - 03:00	0.0008	0.0007	0.0035	0.0034	0.0006	0.0024	0.0022
03:00 - 04:00	0.0003	0.0013	0.0015	0.0016	0.0004	0.0017	0.0012
04:00 - 05:00	0.0006	0.0020	0.0018	0.0029	0.0004	0.0028	0.0031
05:00 - 06:00	0.0019	0.0007	0.0013	0.0007	0.0006	0.0018	0.0003
06:00 - 07:00	0.0014	0.0010	0.0017	0.0031	0.0002	0.0007	0.0025
07:00 - 08:00	0.0015	0.0002	0.0021	0.0017	0.0008	0.0004	0.0034
08:00 - 09:00	0.0009	0.0004	0.0004	0.0010	0.0010	0.0017	0.0019
09:00 - 10:00	0.0030	0.0019	0.0008	0.0027	0.0007	0.0019	0.0019
10:00 - 11:00	0.0020	0.0002	0.0004	0.0031	0.0012	0.0008	0.0006

Average-24Hr*	0.0014	0.0013	0.0017	0.0020	0.0014	0.0017	0.0015
Max-1Hr	0.0035	0.0036	0.0035	0.0034	0.0040	0.0033	0.0034
Min-1Hr	0.0003	0.0002	0.0004	0.0007	0.0002	0.0004	0.0003

Standard-1Hr      0.30 ppm(750 ug/cu.m)  
Standard-24Hr      0.12 ppm(300 ug/cu.m)

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

(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 : 18-25 Aug 2022  
Analyzer Model : Teledyne T100 Station No : SCT-14  
Serial No : 119 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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	0.0006	0.0028	0.0026	0.0022	0.0021	0.0013	0.0016
11:00 - 12:00	0.0008	0.0017	0.0040	0.0013	0.0026	0.0013	0.0007
12:00 - 13:00	0.0018	0.0019	0.0046	0.0020	0.0021	0.0007	0.0015
13:00 - 14:00	0.0018	0.0029	0.0025	0.0012	0.0013	0.0010	0.0028
14:00 - 15:00	0.0008	0.0036	0.0021	0.0013	0.0007	0.0007	0.0027
15:00 - 16:00	0.0008	0.0038	0.0016	0.0003	0.0003	0.0006	0.0022
16:00 - 17:00	0.0010	0.0027	0.0019	0.0002	0.0006	0.0006	0.0020
17:00 - 18:00	0.0020	0.0025	0.0006	0.0006	0.0013	0.0016	0.0019
18:00 - 19:00	0.0027	0.0018	0.0004	0.0004	0.0015	0.0015	0.0020
19:00 - 20:00	0.0017	0.0054	0.0027	0.0014	0.0020	0.0018	0.0018
20:00 - 21:00	0.0007	0.0042	0.0024	0.0024	0.0029	0.0019	0.0017
21:00 - 22:00	0.0007	0.0028	0.0013	0.0030	0.0026	0.0026	0.0018
22:00 - 23:00	0.0002	0.0039	0.0027	0.0013	0.0035	0.0021	0.0018
23:00 - 00:00	0.0008	0.0021	0.0013	0.0021	0.0016	0.0016	0.0018
00:00 - 01:00	0.0003	0.0018	0.0019	0.0037	0.0015	0.0013	0.0019
01:00 - 02:00	0.0008	0.0020	0.0019	0.0034	0.0019	0.0019	0.0030
02:00 - 03:00	0.0001	0.0039	0.0008	0.0042	0.0018	0.0018	0.0029
03:00 - 04:00	0.0017	0.0028	0.0002	0.0042	0.0008	0.0008	0.0027
04:00 - 05:00	0.0014	0.0026	0.0008	0.0026	0.0009	0.0002	0.0025
05:00 - 06:00	0.0006	0.0004	0.0001	0.0039	0.0006	0.0008	0.0025
06:00 - 07:00	0.0018	0.0008	0.0018	0.0029	0.0001	0.0001	0.0027
07:00 - 08:00	0.0007	0.0008	0.0015	0.0025	0.0004	0.0017	0.0031
08:00 - 09:00	0.0014	0.0016	0.0005	0.0048	0.0007	0.0014	0.0025
09:00 - 10:00	0.0027	0.0026	0.0022	0.0035	0.0009	0.0005	0.0022
Average-24Hr*	0.0012	0.0026	0.0018	0.0023	0.0014	0.0012	0.0022
Max-1Hr	0.0027	0.0054	0.0046	0.0048	0.0035	0.0026	0.0031
Min-1Hr	0.0001	0.0004	0.0001	0.0002	0.0001	0.0001	0.0007
Standard-1Hr	0.30 ppm(780 ug/cu.m)						
Standard-24Hr	0.12 ppm(300 ug/cu.m)						

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

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital Monitor Period : 18-25 Aug 2022  
Analyzer Model : API 200A Station No : SCT-16  
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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
11:00 - 12:00	0.0188	0.0212	0.0191	0.0133	0.0149	0.0086	0.0134
12:00 - 13:00	0.0159	0.0257	0.0248	0.0120	0.0186	0.0109	0.0196
13:00 - 14:00	0.0134	0.0275	0.0155	0.0091	0.0138	0.0128	0.0191
14:00 - 15:00	0.0120	0.0232	0.0166	0.0115	0.0159	0.0120	0.0186
15:00 - 16:00	0.0087	0.0228	0.0054	0.0123	0.0125	0.0138	0.0172
16:00 - 17:00	0.0117	0.0266	0.0087	0.0153	0.0127	0.0187	0.0173
17:00 - 18:00	0.0129	0.0078	0.0082	0.0164	0.0169	0.0224	0.0159
18:00 - 19:00	0.0152	0.0210	0.0081	0.0125	0.0226	0.0209	0.0119
19:00 - 20:00	0.0162	0.0074	0.0067	0.0111	0.0185	0.0221	0.0153
20:00 - 21:00	0.0125	0.0120	0.0110	0.0137	0.0088	0.0247	0.0166
21:00 - 22:00	0.0112	0.0128	0.0091	0.0083	0.0100	0.0171	0.0057
22:00 - 23:00	0.0137	0.0065	0.0107	0.0094	0.0064	0.0219	0.0086
23:00 - 00:00	0.0079	0.0085	0.0161	0.0075	0.0042	0.0147	0.0078
00:00 - 01:00	0.0095	0.0081	0.0169	0.0073	0.0052	0.0076	0.0082
01:00 - 02:00	0.0078	0.0065	0.0180	0.0076	0.0065	0.0061	0.0068
02:00 - 03:00	0.0072	0.0065	0.0147	0.0098	0.0059	0.0087	0.0110
03:00 - 04:00	0.0075	0.0064	0.0122	0.0110	0.0075	0.0142	0.0090
04:00 - 05:00	0.0098	0.0080	0.0070	0.0075	0.0043	0.0146	0.0107
05:00 - 06:00	0.0170	0.0096	0.0061	0.0088	0.0062	0.0181	0.0169
06:00 - 07:00	0.0209	0.0142	0.0069	0.0087	0.0063	0.0161	0.0167
07:00 - 08:00	0.0186	0.0161	0.0045	0.0094	0.0235	0.0176	0.0094
08:00 - 09:00	0.0272	0.0173	0.0119	0.0085	0.0226	0.0146	0.0128
09:00 - 10:00	0.0184	0.0170	0.0099	0.0154	0.0214	0.0139	0.0128
10:00 - 11:00	0.0153	0.0182	0.0159	0.0196	0.0144	0.0130	0.0145
Average-24Hr*	0.0137	0.0146	0.0118	0.0111	0.0125	0.0152	0.0132
Max-1Hr	0.0272	0.0275	0.0248	0.0196	0.0235	0.0247	0.0196
Min-1Hr	0.0072	0.0064	0.0045	0.0073	0.0042	0.0061	0.0057
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr							

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

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Wat Ratasadaram Monitor Period : 18-25 Aug 2022  
Analyzer Model : API 200A Station No : SCT-19  
Serial No : 096 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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
11:00 - 12:00	0.0112	0.0183	0.0141	0.0121	0.0140	0.0177	0.0096
12:00 - 13:00	0.0107	0.0220	0.0147	0.0150	0.0175	0.0180	0.0132
13:00 - 14:00	0.0133	0.0183	0.0169	0.0144	0.0118	0.0170	0.0142
14:00 - 15:00	0.0142	0.0148	0.0147	0.0158	0.0104	0.0165	0.0135
15:00 - 16:00	0.0124	0.0190	0.0130	0.0164	0.0078	0.0134	0.0146
16:00 - 17:00	0.0176	0.0140	0.0148	0.0180	0.0062	0.0146	0.0112
17:00 - 18:00	0.0202	0.0165	0.0166	0.0156	0.0071	0.0095	0.0106
18:00 - 19:00	0.0180	0.0166	0.0141	0.0177	0.0096	0.0122	0.0110
19:00 - 20:00	0.0176	0.0191	0.0131	0.0170	0.0097	0.0169	0.0123
20:00 - 21:00	0.0150	0.0154	0.0177	0.0184	0.0144	0.0159	0.0136
21:00 - 22:00	0.0181	0.0146	0.0203	0.0194	0.0131	0.0159	0.0095
22:00 - 23:00	0.0156	0.0097	0.0087	0.0151	0.0143	0.0195	0.0143
23:00 - 00:00	0.0066	0.0116	0.0084	0.0144	0.0097	0.0123	0.0121
00:00 - 01:00	0.0061	0.0091	0.0084	0.0145	0.0071	0.0130	0.0134
01:00 - 02:00	0.0077	0.0094	0.0117	0.0135	0.0057	0.0127	0.0147
02:00 - 03:00	0.0093	0.0104	0.0094	0.0146	0.0042	0.0117	0.0082
03:00 - 04:00	0.0102	0.0117	0.0112	0.0112	0.0047	0.0085	0.0070
04:00 - 05:00	0.0093	0.0106	0.0098	0.0106	0.0069	0.0148	0.0107
05:00 - 06:00	0.0077	0.0126	0.0102	0.0110	0.0062	0.0103	0.0123
06:00 - 07:00	0.0090	0.0145	0.0156	0.0123	0.0046	0.0112	0.0122
07:00 - 08:00	0.0111	0.0166	0.0132	0.0136	0.0121	0.0092	0.0078
08:00 - 09:00	0.0161	0.0171	0.0143	0.0095	0.0165	0.0083	0.0103
09:00 - 10:00	0.0192	0.0188	0.0147	0.0143	0.0153	0.0084	0.0150
10:00 - 11:00	0.0144	0.0159	0.0132	0.0166	0.0176	0.0147	0.0170

Average-24Hr*	0.0129	0.0149	0.0133	0.0146	0.0103	0.0134	0.0120
Max-1Hr	0.0202	0.0220	0.0203	0.0194	0.0176	0.0195	0.0170
Min-1Hr	0.0061	0.0091	0.0084	0.0095	0.0042	0.0083	0.0070

Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-POSCO

Location : Suangulhab School Monitor Period : 18-25 Aug 2022  
Analyzer Model : API 200A Station No : SCT-14  
Serial No : 2365 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)						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	0.0155	0.0135	0.0200	0.0140	0.0123	0.0133	0.0243
11:00 - 12:00	0.0106	0.0092	0.0161	0.0143	0.0125	0.0139	0.0242
12:00 - 13:00	0.0136	0.0107	0.0110	0.0141	0.0309	0.0175	0.0219
13:00 - 14:00	0.0111	0.0135	0.0096	0.0091	0.0179	0.0341	0.0228
14:00 - 15:00	0.0104	0.0176	0.0130	0.0169	0.0223	0.0209	0.0293
15:00 - 16:00	0.0095	0.0103	0.0139	0.0225	0.0189	0.0180	0.0233
16:00 - 17:00	0.0118	0.0103	0.0136	0.0323	0.0192	0.0198	0.0206
17:00 - 18:00	0.0084	0.0095	0.0080	0.0201	0.0234	0.0249	0.0189
18:00 - 19:00	0.0185	0.0091	0.0133	0.0193	0.0162	0.0297	0.0139
19:00 - 20:00	0.0094	0.0140	0.0083	0.0207	0.0146	0.0188	0.0260
20:00 - 21:00	0.0131	0.0105	0.0173	0.0244	0.0152	0.0154	0.0127
21:00 - 22:00	0.0077	0.0134	0.0111	0.0343	0.0136	0.0154	0.0131
22:00 - 23:00	0.0095	0.0122	0.0103	0.0105	0.0244	0.0153	0.0123
23:00 - 00:00	0.0171	0.0132	0.0108	0.0098	0.0112	0.0195	0.0083
00:00 - 01:00	0.0078	0.0177	0.0150	0.0085	0.0098	0.0177	0.0148
01:00 - 02:00	0.0117	0.0194	0.0172	0.0093	0.0121	0.0113	0.0101
02:00 - 03:00	0.0169	0.0180	0.0135	0.0156	0.0090	0.0100	0.0112
03:00 - 04:00	0.0166	0.0226	0.0207	0.0137	0.0206	0.0126	0.0091
04:00 - 05:00	0.0202	0.0246	0.0178	0.0124	0.0082	0.0148	0.0081
05:00 - 06:00	0.0120	0.0347	0.0070	0.0122	0.0136	0.0068	0.0183
06:00 - 07:00	0.0113	0.0224	0.0118	0.0214	0.0077	0.0078	0.0155
07:00 - 08:00	0.0141	0.0156	0.0103	0.0229	0.0209	0.0069	0.0109
08:00 - 09:00	0.0113	0.0156	0.0132	0.0135	0.0180	0.0116	0.0097
09:00 - 10:00	0.0308	0.0162	0.0080	0.0144	0.0124	0.0174	0.0138

Average-24Hr*	0.0133	0.0156	0.0130	0.0169	0.0160	0.0164	0.0164
Max-1Hr	0.0308	0.0347	0.0207	0.0343	0.0309	0.0341	0.0293
Min-1Hr	0.0077	0.0091	0.0070	0.0085	0.0077	0.0068	0.0081

Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

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

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

## คุณภาพอากาศจากแหล่งกำเนิด

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

# STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Furnace(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 29-30/08/2022
REPORT DATE	: 02/09/2022	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	: 8.0 m/s
Diameter	: 1.6 m	Flow Rate <sup>1/</sup>	: 549 Ncu.m./min
Temperature	: 186.0 °C	Excess Oxygen	: 11.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			REFERENCE
		11.1%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	
					METHOD
Total Suspended Particulate	mg/Nm <sup>3</sup>	3.9	5.6	10 <sup>2/</sup> /120 <sup>3/</sup> /320 <sup>4/</sup>	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.จ-239-ก-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ก-6419

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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

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



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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08/2022
REPORT DATE	: 06/09/2022	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	: 8.0 m/s
Diameter	: 1.6 m	Flow Rate <sup>1/</sup>	: 549 Ncu.m./min
Temperature	: 186.0 °C	Excess Oxygen	: 11.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			REFERENCE
		11.1%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	
					METHOD
Sulfur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	ND (<5.0)	ND (<7.1)	30 <sup>2/</sup> /2,094 <sup>3/</sup> /157 <sup>4/</sup>	U.S. EPA Method 6

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.จ-239-ก-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ก-6419

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7. ND means non-detectable.



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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 30/08/2022
REPORT DATE	: 06/09/2022	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	: 8.0 m/s
Diameter	: 1.6 m	Flow Rate <sup>1/</sup>	: 549 Ncu.m./min
Temperature	: 186.0 °C	Excess Oxygen	: 11.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD <sup>2/</sup>		REFERENCE METHOD
		11.1%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>		
Oxide of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	46.1	65.7	300 <sup>2/</sup> /339 <sup>3/</sup> /376 <sup>4/</sup>		U.S. EPA Method 7

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

REG.NO.7-239-8-8183

Maim Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08/2022
REPORT DATE	: 06/09/2022	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	: 8.0 m/s
Diameter	: 1.6 m	Flow Rate <sup>1/</sup>	: 549 Ncu.m./min
Temperature	: 186.0 °C	Excess Oxygen	: 11.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD <sup>2/</sup>		REFERENCE METHOD
		11.1%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>		
Carbon Monoxide (CO)	ppm	9.2	13.1	690		U.S. EPA Method 10

Sudaporn Soonthorn

(Miss Sudaporn Soonthorn)

Analyst

REG.NO.7-239-8-0001

Maim Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-8-6419

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# STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Boiler(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 29-30/08/2022
REPORT DATE	: 02/09/2022	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	: 3.5 m/s
Diameter	: 1.1 m	Flow Rate <sup>1/</sup>	: 145 Ncu.m./min
Temperature	: 86.0 °C	Excess Oxygen	: 8.7 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD	REFERENCE
		8.7%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	METHOD
Total Suspended Particulate	mg/Nm <sup>3</sup>	1.0	1.1	10 <sup>2/</sup> /120 <sup>3/</sup> /320 <sup>4/</sup>	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO. 2-239-8-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-8-6419

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08/2022
REPORT DATE	: 06/09/2022	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	: 3.5 m/s
Diameter	: 1.1 m	Flow Rate <sup>1/</sup>	: 145 Ncu.m./min
Temperature	: 86.0 °C	Excess Oxygen	: 8.7 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD	REFERENCE
		8.7%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	METHOD
Sulfur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	ND (<5.0)	ND (<5.7)	30 <sup>2/</sup> /2,094 <sup>3/</sup> /157 <sup>4/</sup>	U.S. EPA Method 6

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO. 2-239-8-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO. 2-239-8-6419

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## STACK DESCRIPTION

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Diameter	: 1.1 m	Flow Rate <sup>1/</sup>	: 145 Ncu.m./min
Temperature	: 86.0 °C	Excess Oxygen	: 8.7 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD	REFERENCE METHOD
		8.7%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	
Oxide of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	35.6	40.5	300 <sup>2/</sup> /339 <sup>3/</sup> /376 <sup>4/</sup>	U.S. EPA Method 7

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ท-8183

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ท-6419

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

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

3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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

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



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

# STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Boiler(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08/2022
REPORT DATE	: 06/09/2022	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	: 3.5 m/s
Diameter	: 1.1 m	Flow Rate <sup>1/</sup>	: 145 Ncu.m./min
Temperature	: 86.0 °C	Excess Oxygen	: 8.7 %

PARAMETER	UNIT	RESULT <sup>1/</sup>		STANDARD	REFERENCE METHOD
		8.7%O <sub>2</sub>	7.0%O <sub>2</sub>	7.0%O <sub>2</sub>	
Carbon Monoxide (CO)	ppm	2.3	2.6	690 <sup>2/</sup>	U.S. EPA Method 10

Sudaporn Soonthorn

(Miss Sudaporn Soonthorn)

Analyst

REG.NO.7-239-ท-0001

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ท-6419

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

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

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



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +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(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 29-30/08/2022  
REPORT DATE : 02/09/2022 SAMPLE CONDITION : Normal  
STACK LOCATION : Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Process FUEL TYPE : -

#### STACK DESCRIPTION

Height : 44.8 m Gas Velocity : 2.9 m/s  
Diameter : 1.1 m Flow Rate <sup>1/</sup> : 142 Ncu.m./min  
Temperature : 48.5 °C Excess Oxygen : 20.8 %

PARAMETER	UNITS	RESULTS <sup>1/</sup>	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm <sup>3</sup>	1.2	30 <sup>2/</sup> /400 <sup>3/</sup>	U.S. EPA Method 5

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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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +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(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 26/08-01/09/2022  
REPORT DATE : 06/09/2022 SAMPLE CONDITION : Normal  
STACK LOCATION : Cleaning SITE OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Process FUEL TYPE : -

#### STACK DESCRIPTION

Height : 44.8 m Gas Velocity : 2.9 m/s  
Diameter : 1.1 m Flow Rate <sup>1/</sup> : 142 Ncu.m./min  
Temperature : 48.5 °C Excess Oxygen : 20.8 %

PARAMETER	UNITS	RESULTS <sup>1/</sup>	STANDARD <sup>2/</sup>	REFERENCE METHOD
Sodium Hydroxide (NaOH)	mg/Nm <sup>3</sup>	0.054	8.66	U.S. EPA Method 29

Krisana Chanthoom

(Miss Krisana Chanthoom)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

5. ND means non-detectable.





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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/SKP(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 22/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 29-30/08/2022  
REPORT DATE : 02/09/2022 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 : 15.8 m/s  
Diameter : 1.2 m Flow Rate<sup>1/</sup> : 914 Ncu.m./min  
Temperature : 35.8 °C Excess Oxygen : 20.8 %

PARAMETER	UNIT	RESULTS <sup>1/</sup>	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm <sup>3</sup>	2.4	30 <sup>2/</sup> /400 <sup>3/</sup>	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ก-8183

Maim Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-6419

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

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +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)/Coater&Oven(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 24/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 29-30/08/2022  
REPORT DATE : 02/09/2022 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 : 14.0 m/s  
Diameter : 0.8 m Flow Rate<sup>1/</sup> : 373 Ncu.m./min  
Temperature : 49.0 °C Excess Oxygen : 20.7 %

PARAMETER	UNIT	RESULTS <sup>1/</sup>	STANDARD	REFERENCE METHOD
Total Suspended Particulate	mg/Nm <sup>3</sup>	0.9	30 <sup>2/</sup> /400 <sup>3/</sup>	U.S. EPA Method 5

Phatchara Samanchan

(Miss Phatchara Samanchan)

Technical Management Team

REG.NO.7-239-ก-8183

Maim Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.7-239-ก-6419

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +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)/Coater&Oven(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08-01/09/2022
REPORT DATE	: 06/09/2022	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	: 14.0 m/s
Diameter	: 0.8 m	Flow Rate <sup>1/</sup>	: 373 Ncu.m./min
Temperature	: 49.0 °C	Excess Oxygen	: 20.7 %

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

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-ก-7802

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-ก-6419

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

5. ND means non-detectable.



**บริษัท ซีคอต จำกัด**  
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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

**STACK EMISSION ANALYSIS REPORT**

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Pot Roll (Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08-01/09/2022
REPORT DATE	: 06/09/2022	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	: 7.4 m/s
Diameter	: 0.7 m	Flow Rate <sup>1/</sup>	: 154 Ncu.m./min
Temperature	: 39.0 °C	Excess Oxygen	: 20.4 %

PARAMETER	UNITS	RESULTS <sup>1/</sup>	STANDARD <sup>2/</sup>	REFERENCE METHOD
Sodium Hydroxide (NaOH)	mg/Nm <sup>3</sup>	ND (<0.005)	0.03	U.S. EPA Method 29

(Miss Krisana Chanthoom)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Pot Roll(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 24/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 01/09/2022  
REPORT DATE : 06/09/2022 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 : 7.4 m/s  
Diameter : 0.7 m Flow Rate<sup>1/</sup> : 154 Ncu.m./min  
Temperature : 39.0 °C Excess Oxygen : 20.4 %

PARAMETER	UNIT	RESULTS <sup>1/</sup>	STANDARD <sup>2/</sup>	REFERENCE METHOD
Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> )	mg/Nm <sup>3</sup>	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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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

5. ND means non-detectable.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : POSCO Coated Steel Co., Ltd. REFERENCE NO. : 222018-Stk(Cer)/Pot Roll(Aug22)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 24/08/2022  
RECEIVED DATE : 26/08/2022 ANALYTICAL DATE : 31/08/2022  
REPORT DATE : 06/09/2022 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 : 7.4 m/s  
Diameter : 0.7 m Flow Rate<sup>1/</sup> : 154 Ncu.m./min  
Temperature : 39.0 °C Excess Oxygen : 20.4 %

PARAMETER	UNIT	RESULTS <sup>1/</sup>	STANDARD <sup>2/</sup>	REFERENCE METHOD
Hydrogen Chloride (HCl)	mg/Nm <sup>3</sup>	0.12	0.16	U.S. EPA Method 26

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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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Chromium Plating(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08-01/09/2022
REPORT DATE	: 06/09/2022	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 <sup>1/</sup>	: 69.8 Ncu.m./min
Temperature	: 38.3 °C	Excess Oxygen	: 20.8 %

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

  
(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-0-7802

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-6419

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

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

5. ND means non-detectable.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: POSCO Coated Steel Co., Ltd.	REFERENCE NO.	: 222018-Stk(Cer)/Chromium Plating(Aug22)
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/08/2022
RECEIVED DATE	: 26/08/2022	ANALYTICAL DATE	: 26/08/2022
REPORT DATE	: 06/09/2022	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 <sup>1/</sup>	: 69.8 Ncu.m./min
Temperature	: 38.3 °C	Excess Oxygen	: 20.8 %

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

  
(Miss Phatchara Samanchan)

Analyst

REG. NO. 7-239-0-8183

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-6419

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Emission standard @ actual O<sub>2</sub> according to EIA report.

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

6. ND means non-detectable.

## ระดับเสียงบริเวณโรงงานและชุมชนใกล้เคียง

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## Noise Monitoring Result : Community Noise MTR-POSCO

Location : East Fence of Project Site      Monitor Period : 18-25 Aug 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-74-2022-078

Time	Equivalent Sound Pressure Level (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
09:00 - 10:00	53.7	50.1	51.7	61.2	51.9	57.1	53.7
10:00 - 11:00	58.7	50.6	53.6	59.3	57.7	51.8	58.1
11:00 - 12:00	53.6	46.6	58.5	50.9	57.4	50.4	61.2
12:00 - 13:00	58.5	45.0	60.0	57.4	51.1	55.9	55.1
13:00 - 14:00	60.0	44.1	60.0	56.6	56.6	69.9	55.3
14:00 - 15:00	60.0	44.4	59.9	59.1	54.3	61.9	53.5
15:00 - 16:00	58.8	42.9	58.8	63.1	56.5	59.3	59.3
16:00 - 17:00	49.8	58.8	51.1	49.5	49.7	54.3	56.3
17:00 - 18:00	55.8	51.1	55.7	55.7	54.3	56.7	55.2
18:00 - 19:00	55.9	55.7	54.5	52.2	53.8	52.7	52.6
19:00 - 20:00	57.6	56.0	46.9	51.2	48.8	51.1	50.9
20:00 - 21:00	59.8	46.1	59.8	44.0	55.0	56.0	48.9
21:00 - 22:00	57.4	44.1	61.2	45.5	61.1	46.1	49.2
22:00 - 23:00	56.1	43.4	43.2	42.7	57.4	44.1	44.1
23:00 - 00:00	50.4	43.2	44.5	43.0	43.1	50.4	50.4
00:00 - 01:00	46.0	44.5	42.8	42.4	51.0	46.0	51.0
01:00 - 02:00	43.9	42.6	42.8	44.4	48.8	42.8	48.8
02:00 - 03:00	43.7	43.1	45.6	50.8	52.2	42.8	42.6
03:00 - 04:00	44.6	45.8	44.3	46.5	30.2	45.6	43.1
04:00 - 05:00	44.2	46.5	49.9	49.2	30.1	46.5	48.0
05:00 - 06:00	46.4	45.6	48.0	53.6	29.9	49.2	56.0
06:00 - 07:00	47.0	48.0	50.1	48.9	31.2	53.6	58.0
07:00 - 08:00	45.2	50.1	56.5	56.4	48.3	54.3	59.1
08:00 - 09:00	53.0	51.6	60.5	54.3	47.4	61.9	60.0
Leq(24)*	55.5	50.4	56.2	55.4	53.9	58.6	55.5
Ldn	58.1	53.4	57.5	57.7	57.8	59.8	59.6
Lmax **	63.0	63.6	66.5	63.7	61.5	63.1	61.7
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 of Project Site      Monitor Period : 18-25 Aug 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-74-2022-078

Time	L90 (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
09:00 - 10:00	44.6	43.3	47.7	49.9	43.2	48.2	42.4
10:00 - 11:00	50.3	44.7	47.4	45.2	50.8	42.1	47.2
11:00 - 12:00	47.4	41.6	46.4	47.2	48.0	40.2	49.9
12:00 - 13:00	46.4	41.8	48.3	48.4	46.4	41.6	41.7
13:00 - 14:00	48.3	40.8	47.4	49.2	48.6	51.5	42.0
14:00 - 15:00	47.4	41.3	47.9	55.0	47.3	46.8	48.1
15:00 - 16:00	43.2	40.5	45.5	46.4	51.0	55.9	45.2
16:00 - 17:00	41.3	45.5	44.5	42.6	45.2	40.9	43.5
17:00 - 18:00	42.5	44.5	44.1	45.4	40.9	42.1	44.3
18:00 - 19:00	52.3	44.1	48.2	47.9	48.9	46.9	47.2
19:00 - 20:00	48.3	43.3	45.4	47.2	46.6	37.2	47.2
20:00 - 21:00	48.0	42.7	52.8	42.4	46.1	43.3	47.4
21:00 - 22:00	48.7	42.9	47.7	42.7	49.5	42.7	47.4
22:00 - 23:00	48.7	42.2	41.7	41.7	48.2	42.9	42.9
23:00 - 00:00	45.3	41.7	43.0	41.5	42.5	45.3	45.3
00:00 - 01:00	44.2	43.0	41.5	41.1	43.5	44.2	43.5
01:00 - 02:00	42.6	41.4	40.9	43.1	43.1	41.5	43.1
02:00 - 03:00	42.4	41.8	41.0	45.7	30.2	40.9	41.4
03:00 - 04:00	42.9	42.9	43.0	45.3	29.9	41.0	41.8
04:00 - 05:00	42.5	44.1	43.8	45.5	29.8	45.3	44.9
05:00 - 06:00	44.0	41.0	44.9	47.0	29.5	45.5	43.3
06:00 - 07:00	44.6	44.9	44.8	46.2	30.7	47.0	52.0
07:00 - 08:00	43.2	44.8	42.9	43.0	42.4	44.6	55.0
08:00 - 09:00	43.7	46.1	51.7	44.6	41.8	46.8	50.6
L90(avg)*	46.6	43.2	46.7	47.0	46.0	46.7	47.4

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 of Project Site      Monitor Period : 18-25 Aug 2022  
SLM Model : RION NL-21      Serial No : 00521703  
Site Operator : Mr. Phuwarech 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-74-2022-078

Time	Equivalent Sound Pressure Level (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	60.2	55.3	53.5	53.5	54.0	53.6	51.0
11:00 - 12:00	54.5	54.8	53.0	52.7	54.4	54.6	53.3
12:00 - 13:00	54.3	54.8	52.5	54.6	55.2	54.2	54.3
13:00 - 14:00	54.9	54.9	52.0	52.2	55.3	53.9	56.3
14:00 - 15:00	55.6	56.2	52.6	51.2	54.1	53.8	54.5
15:00 - 16:00	55.5	57.0	52.7	52.0	55.3	54.0	53.3
16:00 - 17:00	54.6	55.5	53.1	52.5	56.0	54.7	54.1
17:00 - 18:00	55.1	54.9	52.9	52.4	56.2	55.8	53.7
18:00 - 19:00	56.3	54.7	52.8	52.5	54.6	56.2	54.0
19:00 - 20:00	55.7	56.4	54.5	52.4	54.4	55.3	53.3
20:00 - 21:00	54.8	55.2	57.0	53.3	55.1	54.7	54.0
21:00 - 22:00	55.7	54.6	54.0	54.8	56.8	54.2	56.0
22:00 - 23:00	54.6	54.6	53.9	54.1	55.4	55.6	54.2
23:00 - 00:00	54.5	54.2	54.3	53.8	54.8	55.7	55.6
00:00 - 01:00	53.9	53.9	54.3	53.4	56.1	54.8	56.5
01:00 - 02:00	53.8	54.5	53.8	54.5	54.8	54.3	55.5
02:00 - 03:00	54.3	54.0	54.3	54.8	55.9	54.4	51.7
03:00 - 04:00	53.9	54.1	54.1	53.7	54.9	55.7	54.9
04:00 - 05:00	53.4	52.9	53.4	53.6	54.0	53.6	54.3
05:00 - 06:00	53.8	53.0	52.5	52.7	53.8	53.2	55.1
06:00 - 07:00	54.4	54.3	54.4	52.1	53.0	52.1	55.4
07:00 - 08:00	53.7	53.5	53.3	52.2	53.9	52.5	55.0
08:00 - 09:00	55.1	52.9	52.4	53.2	53.3	53.0	53.7
09:00 - 10:00	55.7	53.3	51.9	51.8	52.0	52.2	54.2
Leq(24)*	55.2	54.7	53.6	53.2	54.9	54.4	54.5
Ldn	60.8	60.6	60.3	60.0	61.3	60.9	61.3
Lmax **	88.6	80.5	74.6	81.9	84.4	79.8	84.0

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 of Project Site      Monitor Period : 18-25 Aug 2022  
SLM Model : RION NL-21      Serial No : 00521703  
Site Operator : Mr. Phuwarech 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-74-2022-078

Time	L90 (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	53.8	54.1	52.2	50.6	52.5	51.0	49.6
11:00 - 12:00	53.2	53.5	51.7	50.5	52.7	53.1	50.2
12:00 - 13:00	53.1	53.4	51.4	51.4	53.1	52.9	52.6
13:00 - 14:00	53.3	53.5	51.2	50.5	52.8	52.3	52.6
14:00 - 15:00	53.3	54.0	51.6	50.0	52.2	52.4	52.3
15:00 - 16:00	53.3	54.2	51.7	50.6	53.1	52.6	51.9
16:00 - 17:00	53.3	53.2	52.0	50.8	53.5	53.0	51.6
17:00 - 18:00	53.7	52.9	51.6	51.2	53.4	53.1	51.6
18:00 - 19:00	54.2	53.1	51.8	51.5	53.0	53.5	52.0
19:00 - 20:00	54.3	54.2	52.3	51.5	52.8	53.2	52.1
20:00 - 21:00	54.0	54.0	54.0	51.6	53.2	52.7	52.2
21:00 - 22:00	54.3	53.1	52.5	53.9	54.4	52.1	52.5
22:00 - 23:00	53.5	53.2	52.5	52.9	53.4	54.3	52.5
23:00 - 00:00	53.5	52.9	53.2	52.6	53.1	53.5	52.1
00:00 - 01:00	53.0	52.8	53.3	52.3	54.3	53.0	51.5
01:00 - 02:00	52.6	53.2	52.8	52.6	53.1	52.8	50.6
02:00 - 03:00	52.9	53.0	53.2	52.8	54.0	52.9	50.2
03:00 - 04:00	53.0	52.7	53.2	52.4	53.3	52.7	50.5
04:00 - 05:00	52.6	52.2	52.7	52.1	53.1	51.8	50.8
05:00 - 06:00	52.8	52.3	51.4	51.4	52.6	51.7	52.0
06:00 - 07:00	53.2	52.4	52.2	50.9	51.9	51.4	53.5
07:00 - 08:00	52.8	52.4	50.9	50.8	52.2	51.4	53.6
08:00 - 09:00	53.3	51.9	50.1	50.9	52.0	51.6	52.7
09:00 - 10:00	54.5	52.1	49.5	50.2	50.8	50.6	52.7
L90(avg)*	53.4	53.1	52.2	51.6	53.0	52.6	51.9

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 of Project Site      Monitor Period : 18-25 Aug 2022  
SLM Model : RION NL-21      Serial No : 00487719  
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-74-2022-078

Time	Equivalent Sound Pressure Level (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	57.9	56.4	55.3	53.8	53.4	58.0	56.2
11:00 - 12:00	54.9	55.6	55.3	52.9	55.1	55.1	56.8
12:00 - 13:00	53.7	58.9	56.5	54.5	54.6	56.5	58.9
13:00 - 14:00	55.3	54.2	54.5	51.9	57.0	54.1	58.5
14:00 - 15:00	54.2	57.7	54.3	52.8	60.3	57.7	58.0
15:00 - 16:00	55.0	57.1	55.2	53.2	59.7	59.3	60.3
16:00 - 17:00	54.5	56.1	54.5	53.2	59.5	58.4	59.7
17:00 - 18:00	53.5	55.9	58.4	52.6	58.7	57.0	59.5
18:00 - 19:00	54.7	57.9	54.4	52.6	57.7	57.0	58.7
19:00 - 20:00	54.1	55.3	54.1	51.5	58.3	55.8	57.8
20:00 - 21:00	53.2	55.1	54.9	51.2	58.5	56.4	58.2
21:00 - 22:00	52.2	52.2	54.5	50.6	57.1	56.6	56.7
22:00 - 23:00	51.6	51.0	54.1	48.5	54.2	54.2	55.4
23:00 - 00:00	50.8	51.5	49.9	47.9	54.8	54.8	54.2
00:00 - 01:00	51.4	52.4	50.6	49.8	55.3	56.1	53.9
01:00 - 02:00	50.3	51.0	49.9	49.1	54.7	59.8	55.4
02:00 - 03:00	50.1	51.5	49.8	49.3	54.3	58.7	53.8
03:00 - 04:00	51.6	51.7	50.3	49.3	54.6	55.2	53.9
04:00 - 05:00	50.8	51.7	51.0	48.4	54.1	54.1	52.7
05:00 - 06:00	51.7	51.5	50.5	49.5	55.1	53.2	53.2
06:00 - 07:00	53.0	52.7	50.1	48.2	56.3	53.0	55.1
07:00 - 08:00	53.2	53.0	50.8	50.5	57.2	55.1	55.0
08:00 - 09:00	55.0	53.6	54.5	51.1	57.8	56.7	55.3
09:00 - 10:00	54.9	54.1	53.7	52.0	58.7	55.5	55.3

Leq(24)*	53.7	54.8	53.9	51.4	57.0	56.6	56.9
Ldn	58.4	59.0	58.2	56.1	61.9	62.6	61.4
Lmax **	76.7	85.1	76.1	71.7	82.3	83.9	82.3

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

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise MTR-POSCO

Location : West Fence of Project Site      Monitor Period : 18-25 Aug 2022  
SLM Model : RION NL-21      Serial No : 00487719  
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-74-2022-078

Time	L90 (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	54.3	53.5	53.3	51.3	51.0	54.1	53.9
11:00 - 12:00	53.5	54.1	53.4	50.8	52.7	52.4	54.9
12:00 - 13:00	52.4	52.9	53.3	52.1	53.3	53.1	56.2
13:00 - 14:00	53.4	52.3	52.2	49.0	54.3	52.1	57.3
14:00 - 15:00	52.7	54.6	52.3	48.4	55.3	54.1	55.2
15:00 - 16:00	52.5	54.2	53.2	51.6	56.2	57.3	55.3
16:00 - 17:00	52.6	53.9	52.6	51.4	57.1	56.5	56.2
17:00 - 18:00	52.0	53.9	53.3	51.4	56.9	54.0	57.1
18:00 - 19:00	53.0	52.9	53.0	51.3	53.7	54.0	56.9
19:00 - 20:00	52.8	53.6	52.4	49.7	53.5	54.0	54.2
20:00 - 21:00	51.0	52.9	53.4	48.7	55.4	54.1	54.8
21:00 - 22:00	50.7	50.3	52.5	48.1	54.3	53.4	54.8
22:00 - 23:00	50.3	49.6	48.9	47.3	52.4	52.4	53.9
23:00 - 00:00	49.8	50.2	48.5	46.5	52.0	52.0	52.4
00:00 - 01:00	49.9	50.6	49.3	47.7	53.7	51.5	51.9
01:00 - 02:00	49.3	49.8	48.8	47.8	53.4	51.8	53.0
02:00 - 03:00	48.8	50.1	48.9	47.6	52.6	53.7	52.4
03:00 - 04:00	49.7	50.0	49.1	47.7	52.7	51.4	52.3
04:00 - 05:00	49.5	49.8	50.0	46.9	52.6	52.2	51.2
05:00 - 06:00	49.7	50.0	49.7	47.6	53.0	51.3	51.2
06:00 - 07:00	51.5	51.1	49.2	47.1	53.1	51.5	53.0
07:00 - 08:00	51.6	51.4	50.0	48.0	53.9	52.2	53.1
08:00 - 09:00	53.1	51.7	50.5	49.5	54.5	54.1	52.6
09:00 - 10:00	53.1	52.2	51.7	50.7	57.4	53.8	52.6

L90(avg)*	51.8	52.2	51.6	49.5	54.3	53.5	54.4
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Remark : \* Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Community Noise MTR-POSCO

Location : North Fence of Project Site  
SLM Model : RION NL-21  
Site Operator : Mr. Phuwadech Kaewjirakulsri

Monitor Period : 18-25 Aug 2022  
Serial No : 00198276

Calibrator Model : RION NC-74  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 94.0/0.0  
Cal Sheet No.: NC-74-2022-078

Serial No : 34283648  
Certified Date : 24 Dec 2021  
Expire Date : 23 Dec 2022

Time	Equivalent Sound Pressure Level (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
08:00 - 09:00	65.6	65.6	65.7	63.8	65.7	65.9	64.7
09:00 - 10:00	65.6	65.3	65.4	64.6	65.4	65.7	65.3
10:00 - 11:00	65.5	65.6	65.1	64.3	65.0	65.3	64.4
11:00 - 12:00	65.6	65.4	65.2	64.3	71.8	64.5	74.7
12:00 - 13:00	65.3	66.1	65.3	64.0	70.9	64.9	63.6
13:00 - 14:00	65.3	65.5	65.2	64.1	67.1	65.2	64.4
14:00 - 15:00	65.2	65.8	65.0	64.3	64.6	65.0	63.7
15:00 - 16:00	65.6	66.1	65.2	64.6	64.7	64.6	68.0
16:00 - 17:00	66.2	66.1	65.2	65.0	70.8	64.2	64.3
17:00 - 18:00	66.3	66.6	65.7	65.3	65.3	64.2	65.2
18:00 - 19:00	66.5	66.7	66.0	65.0	65.0	64.6	64.6
19:00 - 20:00	66.7	66.9	65.7	65.3	65.3	65.5	65.3
20:00 - 21:00	66.7	67.1	66.1	65.2	66.9	65.1	65.4
21:00 - 22:00	66.4	66.8	66.3	65.1	67.1	65.0	65.1
22:00 - 23:00	66.5	66.2	66.3	65.3	66.8	64.9	65.1
23:00 - 00:00	66.6	66.2	66.4	65.3	66.5	65.0	65.4
00:00 - 01:00	66.2	66.1	66.4	65.7	66.6	65.1	65.2
01:00 - 02:00	66.4	66.0	66.4	66.2	66.2	65.3	65.4
02:00 - 03:00	66.8	66.0	66.5	66.0	66.4	64.6	65.3
03:00 - 04:00	66.9	67.0	66.5	66.0	65.7	65.2	65.4
04:00 - 05:00	66.8	66.2	65.6	66.3	65.3	65.2	65.2
05:00 - 06:00	66.5	66.0	65.7	66.4	65.9	65.2	67.7
06:00 - 07:00	66.1	65.9	70.3	66.2	66.0	65.3	65.9
07:00 - 08:00	65.7	65.9	67.9	65.6	65.9	65.2	65.2
Leq(24)*	66.2	66.2	66.2	65.2	67.1	65.0	66.5
Ldn	72.9	72.6	73.2	72.2	72.8	71.5	72.3
Lmax **	80.5	86.5	91.3	77.4	81.1	83.2	91.4

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

Remark : \* Average time between 08:00-08:00

\*\* Maximum Sound Pressure Level between 08:00-08:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise MTR-POSCO

Location : North Fence of Project Site  
SLM Model : RION NL-21  
Site Operator : Mr. Phuwadech Kaewjirakulsri

Monitor Period : 18-25 Aug 2022  
Serial No : 00198276

Calibrator Model : RION NC-74  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 94.0/0.0  
Cal Sheet No.: NC-74-2022-078

Serial No : 34283648  
Certified Date : 24 Dec 2021  
Expire Date : 23 Dec 2022

Time	L90 (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
08:00 - 09:00	64.3	64.5	64.4	59.5	64.6	64.8	64.1
09:00 - 10:00	64.3	64.3	64.2	63.5	64.1	64.4	64.3
10:00 - 11:00	64.2	64.6	64.1	63.4	63.7	64.3	63.2
11:00 - 12:00	64.2	64.3	64.0	63.5	64.2	63.8	63.4
12:00 - 13:00	64.2	64.3	64.2	63.2	69.7	64.3	62.9
13:00 - 14:00	64.0	64.4	63.9	63.3	64.0	63.9	63.3
14:00 - 15:00	64.2	64.7	63.8	63.6	63.7	63.8	62.9
15:00 - 16:00	64.5	65.1	64.0	63.8	63.6	64.1	63.0
16:00 - 17:00	64.9	65.0	64.3	64.1	69.4	63.7	63.5
17:00 - 18:00	65.2	65.2	64.5	64.4	64.4	63.8	64.0
18:00 - 19:00	65.2	65.5	64.8	64.4	64.4	64.1	63.8
19:00 - 20:00	65.5	66.0	64.7	64.5	64.5	64.8	64.6
20:00 - 21:00	65.5	66.0	65.1	64.5	66.0	64.5	64.5
21:00 - 22:00	65.3	65.7	65.4	64.5	66.0	64.6	64.5
22:00 - 23:00	65.5	65.2	65.6	64.6	65.7	64.5	64.6
23:00 - 00:00	65.6	65.2	65.6	64.7	65.5	64.5	64.6
00:00 - 01:00	65.5	65.0	65.5	64.9	65.6	64.7	64.7
01:00 - 02:00	65.5	65.0	65.5	65.1	65.5	64.6	64.8
02:00 - 03:00	65.9	65.0	65.5	65.1	65.5	64.1	64.6
03:00 - 04:00	65.9	65.3	65.4	65.2	64.8	64.9	64.8
04:00 - 05:00	65.9	65.0	63.0	65.4	64.7	64.8	64.7
05:00 - 06:00	65.3	65.0	64.9	65.5	65.0	64.8	65.8
06:00 - 07:00	64.9	64.9	60.0	65.3	65.0	64.8	65.0
07:00 - 08:00	64.5	64.8	60.4	64.8	64.9	64.7	64.7
L90(avg)*	65.0	65.0	64.5	64.3	65.5	64.4	64.2

Remark : \* Average time between 08:00-08:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise


### MTR-POSCO

Location : Mab Yang Pom Sub-District Health Promoting Hospital				Monitor Period : 18-25 Aug 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) : 94.0/0.0				Expire Date : 23 Dec 2022			
Cal Sheet No.: NC-74-2022-078							
Time	Equivalent Sound Pressure Level (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	57.6	59.6	57.2	55.2	59.0	53.2	54.6
11:00 - 12:00	52.8	57.8	58.5	55.2	61.0	54.1	56.6
12:00 - 13:00	51.9	57.6	56.7	54.7	64.4	53.6	55.1
13:00 - 14:00	53.7	58.7	55.5	53.8	61.8	60.3	57.3
14:00 - 15:00	55.0	55.5	54.4	54.2	53.4	60.3	54.4
15:00 - 16:00	53.6	56.2	57.7	55.7	53.1	55.7	54.7
16:00 - 17:00	54.7	54.8	60.6	59.7	53.0	54.3	58.5
17:00 - 18:00	55.4	58.2	59.7	59.3	54.9	53.5	57.1
18:00 - 19:00	53.5	53.0	60.2	57.2	53.4	53.8	58.8
19:00 - 20:00	52.9	54.0	59.0	56.6	53.6	53.0	61.2
20:00 - 21:00	54.6	53.6	61.0	54.4	54.6	54.4	60.4
21:00 - 22:00	54.5	54.1	56.9	55.3	53.0	55.1	62.1
22:00 - 23:00	51.3	54.9	53.3	52.9	50.4	52.5	59.5
23:00 - 00:00	48.9	51.4	50.9	52.0	52.4	55.8	54.5
00:00 - 01:00	47.5	49.6	47.0	56.2	46.0	52.3	52.9
01:00 - 02:00	45.2	48.5	47.1	51.4	47.7	52.1	52.0
02:00 - 03:00	48.7	49.7	48.3	49.6	50.1	49.8	48.9
03:00 - 04:00	51.8	51.1	51.8	48.4	51.0	47.5	47.5
04:00 - 05:00	54.1	55.1	53.8	46.8	52.4	40.5	45.2
05:00 - 06:00	55.5	54.8	57.2	51.8	53.4	42.8	48.7
06:00 - 07:00	56.7	56.2	59.7	52.3	53.6	46.5	51.8
07:00 - 08:00	54.7	57.2	55.4	56.8	54.9	43.9	52.3
08:00 - 09:00	57.2	59.0	56.6	57.6	56.1	55.2	56.8
09:00 - 10:00	62.3	57.2	55.1	58.3	53.6	54.6	56.7
Leq(24)*	54.9	55.8	57.0	55.4	56.4	54.3	56.7
Ldn	59.6	60.4	61.4	59.5	59.5	58.4	60.7
Lmax **	87.4	85.5	85.1	82.0	80.5	82.7	78.1
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 : Mab Yang Pom Sub-District Health Promoting Hospital				Monitor Period : 18-25 Aug 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) : 94.0/0.0				Expire Date : 23 Dec 2022			
Cal Sheet No.: NC-74-2022-078							
Time	L90 (dB(A))						
	18-19 Aug 2022	19-20 Aug 2022	20-21 Aug 2022	21-22 Aug 2022	22-23 Aug 2022	23-24 Aug 2022	24-25 Aug 2022
10:00 - 11:00	46.8	53.3	60.3	58.5	64.0	57.2	58.5
11:00 - 12:00	47.1	51.8	63.9	59.1	67.2	59.0	59.8
12:00 - 13:00	46.4	51.7	60.2	58.5	70.8	58.2	58.8
13:00 - 14:00	47.6	50.4	58.6	57.3	64.9	64.6	62.6
14:00 - 15:00	47.7	49.7	57.8	58.0	55.7	64.6	57.6
15:00 - 16:00	48.0	49.6	61.2	61.3	56.2	59.9	57.9
16:00 - 17:00	48.8	50.3	64.4	64.4	56.6	57.5	63.9
17:00 - 18:00	50.7	49.6	63.6	65.3	57.6	57.5	61.2
18:00 - 19:00	48.4	48.4	63.6	61.1	56.8	58.5	62.5
19:00 - 20:00	48.0	48.8	62.5	59.8	56.5	56.3	65.5
20:00 - 21:00	49.2	49.0	65.6	57.6	57.5	58.1	64.6
21:00 - 22:00	49.9	48.3	60.9	60.4	55.4	58.3	66.6
22:00 - 23:00	55.6	48.7	58.1	57.3	53.4	56.5	63.9
23:00 - 00:00	54.0	56.5	55.3	56.7	56.1	59.4	58.5
00:00 - 01:00	52.7	54.7	52.2	57.5	49.8	56.7	57.3
01:00 - 02:00	51.2	54.0	53.1	56.5	52.0	56.5	56.7
02:00 - 03:00	54.4	54.9	53.9	54.7	52.8	54.9	54.0
03:00 - 04:00	56.0	55.3	56.4	53.5	57.1	53.1	52.7
04:00 - 05:00	58.7	49.8	58.2	52.5	56.3	45.2	51.2
05:00 - 06:00	58.6	48.8	61.1	56.0	57.2	47.9	54.4
06:00 - 07:00	60.2	57.5	61.7	56.2	57.6	48.2	56.0
07:00 - 08:00	57.9	61.7	59.2	60.5	57.1	49.2	56.4
08:00 - 09:00	60.3	64.0	59.8	61.1	58.0	59.0	60.7
09:00 - 10:00	53.9	60.3	58.8	62.8	57.0	58.5	60.2
L90(avg)*	54.6	55.6	60.9	59.7	61.2	58.5	61.0

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

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

## คุณภาพน้ำทิ้ง

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**บริษัท ซีคอต จำกัด**  
**SECOT CO., LTD.**

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

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1520/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/07/2022	SAMPLING TIME	: 09.00
RECEIVED DATE	: 20/07/2022	ANALYTICAL DATE	: 20-26/07/2022
REPORT DATE	: 26/07/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_July

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	38.6	≤ 45
pH	-	4500-H <sup>+</sup> B	< 0.10	7.13	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,308	-
Total Dissolved Solids	mg/l	2540 C	< 50	807	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	21	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	44.1	≤ 500
COD	mg/l	5220 D	< 40.00	80.59	≤ 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	0.38	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 11<sup>th</sup> ED. 2017 (AWWA APHA WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 7-239-ก-5976

*Mrs. Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-ก-5863

- Remark :**
1. Reported analysis refers to submitted sample only.
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  3. <sup>1/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).
  4. - Not available.



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

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1520/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/07/2022	SAMPLING TIME	: 09.20
RECEIVED DATE	: 20/07/2022	ANALYTICAL DATE	: 20-26/07/2022
REPORT DATE	: 26/07/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_July

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุกระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.45	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	257	-
Total Dissolved Solids	mg/l	2540 C	< 50	168	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 11<sup>th</sup> ED. 2017 (AWWA APHA WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 7-239-ก-5976

*Mrs. Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-ก-5863

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  4. - Not available.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1697/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 24/08/2022	SAMPLING TIME	: 10.34
RECEIVED DATE	: 25/08/2022	ANALYTICAL DATE	: 25/08/2022-01/09/2022
REPORT DATE	: 01/09/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_August

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อกักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	37.6	≤ 45
pH	-	4500-H <sup>+</sup> B	< 0.10	7.09	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	1,488	-
Total Dissolved Solids	mg/l	2540 C	< 50	858	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	16	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	37.1	≤ 500
COD	mg/l	5220 D	< 40.00	67.57	≤ 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	0.29	≤ 5.0

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-R-5976

*Mrs. Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-R-5863

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

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1697/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 24/08/2022	SAMPLING TIME	: 10.18
RECEIVED DATE	: 25/08/2022	ANALYTICAL DATE	: 25/08/2022-01/09/2022
REPORT DATE	: 01/09/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_August

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.67	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	128	-
Total Dissolved Solids	mg/l	2540 C	< 50	66	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-R-5976

*Mrs. Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-R-5863

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

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3. <sup>1/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

4. - Not available.



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SECOT CO., LTD.

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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1912/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/09/2022	SAMPLING TIME	: 09.30
RECEIVED DATE	: 20/09/2022	ANALYTICAL DATE	: 20-27/09/2022
REPORT DATE	: 27/09/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_September

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	36.7	≤ 45
pH	-	4500-H <sup>+</sup> B	< 0.10	7.21	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,911	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,078	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	22	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	39.9	≤ 500
COD	mg/l	5220 D	< 40.00	76.42	≤ 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	0.43	≤ 5.0

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-5976

*Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-5863

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  4. - Not available.



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SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 1912/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 19/09/2022	SAMPLING TIME	: 09.50
RECEIVED DATE	: 20/09/2022	ANALYTICAL DATE	: 20-27/09/2022
REPORT DATE	: 27/09/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_September

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุกระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.67	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	266	-
Total Dissolved Solids	mg/l	2540 C	< 50	130	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-5976

*Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-5863

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2082/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 17/10/2022	SAMPLING TIME	: 09.47
RECEIVED DATE	: 18/10/2022	ANALYTICAL DATE	: 18-24/10/2022
REPORT DATE	: 25/10/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_October

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	36.1	≤ 45
pH	-	4500-H <sup>+</sup> B	< 0.10	7.06	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	2,858	-
Total Dissolved Solids	mg/l	2540 C	< 50	1,614	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	12	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	35.0	≤ 500
COD	mg/l	5220 D	< 40.00	92.29	≤ 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	0.34	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> 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

REG. NO. 2-239-ก-5863

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4. - Not available.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

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

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2082/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 17/10/2022	SAMPLING TIME	: 10.03
RECEIVED DATE	: 18/10/2022	ANALYTICAL DATE	: 18-24/10/2022
REPORT DATE	: 25/10/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_October

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.49	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	646	-
Total Dissolved Solids	mg/l	2540 C	< 50	354	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> 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

REG. NO. 2-239-ก-5863

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SECOT CO., LTD.

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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2304/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 14/11/2022	SAMPLING TIME	: 15.15
RECEIVED DATE	: 15/11/2022	ANALYTICAL DATE	: 15-21/11/2022
REPORT DATE	: 21/11/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	34.7	≤ 45
pH	-	4500-H <sup>+</sup> B	< 0.10	6.95	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	1,534	-
Total Dissolved Solids	mg/l	2540 C	< 50	958	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	16	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	40.4	≤ 500
COD	mg/l	5220 D	< 40.00	84.05	≤ 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	0.36	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 19<sup>TH</sup> ED. 2017 (AWWA APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-5976

*M. Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-5863

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SECOT CO., LTD.

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

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2304/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 14/11/2022	SAMPLING TIME	: 15.00
RECEIVED DATE	: 15/11/2022	ANALYTICAL DATE	: 15-21/11/2022
REPORT DATE	: 21/11/2022	SITE OPERATOR	: Mr. Watcharakan Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	
				จุดระบายน้ำ (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.20	5.5-9.0
Conductivity	µS/cm	2510 B	< 1.0	566	-
Total Dissolved Solids	mg/l	2540 C	< 50	322	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 19<sup>TH</sup> ED. 2017 (AWWA APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-5976

*M. Araya Tipparuk*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-5863

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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 : cnvserv@secot.co.th

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2475/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 12/12/2022	SAMPLING TIME	: 13.12
RECEIVED DATE	: 13/12/2022	ANALYTICAL DATE	: 13-20/12/2022
REPORT DATE	: 20/12/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_December

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บ่อพักน้ำทิ้งสุดท้ายของโครงการ (Holding Pond)	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	39.5	≤ 45
pH		4500-H <sup>+</sup> B	< 0.10	7.09	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	1,553	
Total Dissolved Solids	mg/l	2540 C	< 50	936	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	9	≤ 200
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	25.2	≤ 500
COD	mg/l	5220 D	< 40.00	62.36	≤ 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	0.10	≤ 5.0

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-5976

*Araya Tipparak*

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 2-239-ก-5863

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3. <sup>1/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

4. - Not available.



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**SECOT CO., LTD.**

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

**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2475/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 12/12/2022	SAMPLING TIME	: 13.22
RECEIVED DATE	: 13/12/2022	ANALYTICAL DATE	: 13-20/12/2022
REPORT DATE	: 20/12/2022	SITE OPERATOR	: Mr. Watcharakon Pramakhate
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_WW_December

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จุกระบายนํ้า (Drain) ของระบบ Wet Scrubber Coater&Oven	STANDARD <sup>1/</sup>
pH		4500-H <sup>+</sup> B	< 0.10	7.10	5.5-9.0
Conductivity	μS/cm	2510 B	< 1.0	226	
Total Dissolved Solids	mg/l	2540 C	< 50	166	≤ 3,000
Total Chromium	mg/l	3120 B	< 0.001	< 0.01	

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

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-5976

*Araya Tipparak*

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 2-239-ก-5863

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4. - Not available.

## คุณภาพน้ำใต้ดิน

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SECOT CO., LTD.

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

GROUND WATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2311/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 15/11/2022	SAMPLING TIME	: 09:53-10:10
RECEIVED DATE	: 16/11/2022	ANALYTICAL DATE	: 16-22/11/2022
REPORT DATE	: 25/11/2022	SITE OPERATOR	: Mr. Aniwat Pimwanna
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_GW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION GW1	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	28.9	-
pH	-	4500-H <sup>+</sup> B	< 0.10	5.68	-
Total Dissolved Solids	mg/l	2540 C	< 50	182	-
Total Suspended Solids	mg/l	2540 D	< 5	51	-
Total Coliform Bacteria*	MPN/100 ml	9221 B	< 1.8	11,000	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0056	≤ 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	< 0.03	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	< 0.01	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-5976

(Mrs. Araya Tipparuk)

Technical Management Team

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  - 4.\* Total Coliform Bacteria analysis was performed by TEST TECH Co.,Ltd.
  5. - Not available.



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SECOT CO., LTD.

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

GROUND WATER ANALYSIS REPORT

CLIENT NAME	: Posco Coated Steel (Thailand) Co., Ltd.	REQUEST SERVICE No.	: 2311/65
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 15/11/2022	SAMPLING TIME	: 10:21-10:34
RECEIVED DATE	: 16/11/2022	ANALYTICAL DATE	: 16-22/11/2022
REPORT DATE	: 25/11/2022	SITE OPERATOR	: Mr. Aniwat Pimwanna
SAMPLE CONDITION	: Normal	FILE CODE	: 222018_GW_November

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION GW2	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	29.5	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.70	-
Total Dissolved Solids	mg/l	2540 C	< 50	216	-
Total Suspended Solids	mg/l	2540 D	< 5	62	-
Total Coliform Bacteria*	MPN/100 ml	9221 B	< 1.8	240	-
Arsenic (As)	mg/l	3114 C	< 0.0001	0.0520	≤ 0.1
Total Chromium (T-Cr)	mg/l	3120 B	< 0.001	< 0.01	≤ 6.0
Copper (Cu)	mg/l	3120 B	< 0.001	ND	-
Lead (Pb)	mg/l	3120 B	< 0.008	ND	≤ 4.0
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7
Nickel (Ni)	mg/l	3120 B	< 0.002	< 0.01	≤ 5.0

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

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-5976

(Mrs. Araya Tipparuk)

Technical Management Team

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  - 4.\* Total Coliform Bacteria analysis was performed by TEST TECH Co.,Ltd.
  5. - Not available.

## ความร้อนในสถานที่ทำงาน

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บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

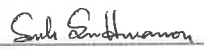
HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Aug22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 22/08/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210173  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Aniwat Pimwanna

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Ave</sub>	
Annealing Furnace	14.33-15.03	28.1	36.8	39.5	31.5	32.4	34.0
	15.03-15.33	29.2	38.3	40.1	32.5		
	15.33-16.03	28.9	38.4	40.7	32.4		
	16.03-16.33	29.9	38.8	40.6	33.1		

  
(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).

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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/Aug22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 22/08/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210172  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Aniwat Pimwanna

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Ave</sub>	
Chromium Plating	11.21-11.51	28.3	34.7	35.5	30.5	30.8	34.0
	11.51-12.21	28.5	35.2	35.7	30.7		
	12.21-12.51	28.7	35.7	36.2	31.0		
	12.51-13.21	28.8	36.0	36.4	31.1		
Galvannealing Furnace	13.51-14.21	29.0	36.5	36.9	31.4	31.5	34.0
	14.21-14.51	27.9	34.4	35.9	30.3		
	14.51-15.21	29.0	38.1	38.9	32.0		
	15.21-15.51	29.3	38.8	39.3	32.3		

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

### HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Aug22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 22/08/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210174  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Aniwat Pimwanna

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Ave</sub>	
Boiler	10.52-11.22	27.6	35.9	37.0	30.4	30.6	34.0
	11.22-11.52	28.2	36.2	37.2	30.9		
	11.52-12.22	27.7	36.3	37.1	30.5		
	12.22-12.52	27.7	35.8	36.6	30.4		
Coater&Oven	13.22-13.52	27.4	36.6	37.5	30.4	30.4	34.0
	13.52-14.22	27.9	36.7	37.6	30.8		
	14.22-14.52	27.8	34.8	35.4	30.1		
	14.52-15.22	27.9	35.9	36.2	30.4		

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### HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Nov22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 14/11/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210172  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Watcharakon Pramakhate

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Ave</sub>	
Annealing Furnace	10.00-10.30	30.1	36.9	39.3	32.9	33.0	34.0
	10.30-11.00	30.2	37.0	39.2	32.9		
	11.00-11.30	30.4	37.1	39.2	33.0		
	11.30-12.00	30.5	37.2	39.2	33.1		

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#### HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Nov22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 14/11/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210176  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Watcharakon Pramakhate

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Avg</sub>	
Galvannealing Furnace	13.00-13.30	29.8	39.4	40.2	32.9	32.8	34.0
	13.30-14.00	29.7	39.4	40.0	32.8		
	14.00-14.30	29.7	39.5	40.1	32.8		
	14.30-15.00	29.6	39.5	39.9	32.7		

(Miss Katesarin Vorradetwittaya)

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#### HEAT STRESS MEASUREMENT REPORT

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Nov22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 14/11/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210175  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Watcharakon Pramakhate

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Avg</sub>	
Coater&Oven	13.00-13.30	27.4	31.5	31.6	28.7	28.6	34.0
	13.30-14.00	27.4	31.6	31.7	28.7		
	14.00-14.30	27.3	31.4	31.5	28.6		
	14.30-15.00	27.3	31.3	31.4	28.5		

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**HEAT STRESS MEASUREMENT REPORT**

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Nov22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 14/11/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210173  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Watcharakan Pramakhate

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Avg</sub>	
Boiler	10.00-10.30	29.7	34.9	35.0	31.3	31.3	34.0
	10.30-11.00	29.6	34.9	35.0	31.2		
	11.00-11.30	29.7	34.9	35.1	31.3		
	11.30-12.00	29.8	35.0	35.2	31.4		

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**HEAT STRESS MEASUREMENT REPORT**

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cer-Heat/Nov22  
MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Area Heat Stress Monitor  
MEASUREMENT DATE : 14/11/2022 MODEL NO. : JT2011-E2A SERIAL NO. : 3522210174  
MEASUREMENT LOCATION : Process Area SITE OPERATION : Mr. Watcharakan Pramakhate

LOCATION	TIME	MEASURED TEMPERATURE (°C)					STANDARD (°C) *
		NWB	DB	GT	WBGT	WBGT <sub>Avg</sub>	
Chromium Plating	11.00-11.30	26.8	30.3	31.0	28.1	28.1	34.0
	11.30-12.00	26.8	30.1	31.1	28.1		
	12.00-12.30	26.7	30.0	31.1	28.0		
	12.30-13.00	26.7	30.0	31.1	28.0		

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Technical Management Team

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## คุณภาพอากาศในสถานประกอบการ

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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.	: 1714/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/08/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 26/08/2022
		Test Date	: 30/08/2022
Tel/Fax	: 038 -6272421	Report Date	: 15/09/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Annealing Furnace	22/08/2022 14:15-16:15	Total dust	NIOSH 0500 /Microbalance	<0.25	ND	15
	22/08/2022 14:15-16:15	Respirable dust	NIOSH 0600 /Microbalance	<0.25	ND	5
Raw Material Area	22/08/2022 14:25-16:25	Total dust	NIOSH 0500 /Microbalance	<0.25	ND	15
	22/08/2022 14:25-16:25	Respirable dust	NIOSH 0600 /Microbalance	<0.25	ND	5

Analyst By: Phatchara Samanchan  
(Miss Phatchara Samanchan)

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

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4. ND = non-detectable.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 1714/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/08/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Pom Subdistrict Pluak Dang District Rayong	Received Date	: 26/08/2022
		Test Date	: 01/09/2022
Tel/Fax	: 038 -6272421	Report Date	: 15/09/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Zn Pot Area	22/08/2022 14:28-18:28	Zinc oxide fume	NIOSH 7030/FAAS	<0.002	ND	5 <sup>U</sup>
Chromium Plating	22/08/2022 10:55-14:55	Sodium hydroxide	OSHA ID 121/FAAS	<0.004	ND	2 <sup>U</sup>
	22/08/2022 10:55-14:55	Chromium fume	NIOSH 7024/FAAS	<0.002	ND	0.5 <sup>U</sup>
Coater&Oven	22/08/2022 14:38-18:38	Chromium fume	NIOSH 7024/FAAS	<0.002	ND	0.5 <sup>U</sup>

Analyst By: K. Ch  
(Miss Krisana Chanthoom)

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

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3. <sup>U</sup> Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. <sup>U</sup> TLV-TWA of American Conference of Governmental Industrial Hygienists (ACGIH).
5. ND = non-detectable.



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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 1714/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 22/08/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 26/08/2022
Tel/Fax	: 038 -6272421	Test Date	: 12/09/2022
		Report Date	: 15/09/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Chromium Plating	22/08/2022 10:55-14:55	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1

Analyst By: Phatchara Samanchan  
(Miss Phatchara Samanchan)

Approved By:   
(Miss Narisa Poowasanpetch)  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 2314/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 14/11/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 18/11/2022
Tel/Fax	: 038 -6272421	Test Date	: 19/11/2022
		Report Date	: 25/11/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Annealing Furnac	14/11/2022 11:00-15:00	Total dust	NIOSH 050C 'Microbalance	< 0.25	ND	15
	14/11/2022 11:00-15:00	Respirable dust	NIOSH 060C 'Microbalance	< 0.25	ND	5
Raw Material Area	14/11/2022 11:30-15:30	Total dust	NIOSH 0500 'Microbalance	< 0.25	ND	15
	14/11/2022 11:30-15:30	Respirable dust	NIOSH 0600 'Microbalance	< 0.25	ND	5

Analyst By: Phatchara Samanchan  
(Miss Phatchara Samanchan)

Approved By:   
(Miss Narisa Poowasanpetch)  
Technical Management Team

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

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- Notification of the Occupational Safety and Health Administration (OSHA), B.E. 2555 (2012).
- ND = non-detectable.



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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.	: 2314/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 14/11/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 18/11/2022
		Test Date	: 23/11/2022
Tel/Fax	: 038 -6272421	Report Date	: 25/11/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Zn Pot Area	14/11/2022 13:53-17:53	Zinc oxide fume	NIOSH 7030/FAAS	< 0.002	0.019	5 <sup>U</sup>
Chromium Plating	14/11/2022 11:50-15:50	Sodium hydroxide	OSHA ID 121/FAAS	< 0.004	ND	2 <sup>U</sup>
	14/11/2022 11:50-15:50	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5 <sup>2J</sup>
Coater&Oven	14/11/2022 13:05-17:05	Chromium fume	NIOSH 7024/FAAS	< 0.002	ND	0.5 <sup>2J</sup>

Analyst By :   
(Miss Krisana Chanthoom)

Approved By :   
(Miss Narisa Poowasanpetch)  
Technical Management Team

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

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3. <sup>U</sup> Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. <sup>2J</sup> TLV-TWA of American Conference of Governmental Industrial Hygienists (ACGIH).
5. ND = non-detectable.



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ANALYSIS/TEST REPORT

Customer	: EED/SECOT Co., Ltd.	Request Service No.	: 2314/65
For	: Posco Coated Steel (Thailand) Co., Ltd.	Sampling Date	: 14/11/2022
Address	: 7/448 Amata City Industrial Estate, Map Yang Porn Subdistrict Pluak Dang District Rayong	Received Date	: 18/11/2022
		Test Date	: 19/11/2022
Tel/Fax	: 038 -6272421	Report Date	: 25/11/2022

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 <sup>3</sup>	RESULT mg/m <sup>3</sup>	STANDARD mg/m <sup>3</sup>
Chromium Plating	14/11/2022 11:50-15:50	Sulfuric acid	NIOSH 7908/IC	< 0.002	ND	1

Analyst By : Phatchara Samanchon  
(Miss Phatchara Samanchon)

Approved By :   
(Miss Narisa Poowasanpetch)  
Technical Management Team

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## ระดับเสียงในบริเวณสถานที่ทำงาน

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## Noise Monitoring Result : Working Noise

### MTR-POSCO

<b>Location</b>	: Annealing Furnace	<b>Monitor Period</b>	: Nov 15, 2022
<b>SLM Model</b>	: Cirrus CR162B	<b>Serial No.</b>	: G302740
<b>Site Operator</b>	: Mr. Watcharakan Pramakhate		

<b>Calibrator Model</b>	: Cirrus CR:515	<b>Serial No.</b>	: 94296
<b>Calibration Ref dB(A)</b>	: 94.0	<b>Certified Date</b>	: Dec 24, 2021
<b>SLM Reading / Adjus dB(A)</b>	: 93.7/0.2	<b>Expire Date</b>	: Dec 23, 2022
<b>Cal Sheet No.</b>	: CR-515-2022-142		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	Nov 15, 2022
09.00-17.00	100.0
<b>Standard*</b>	<b>140</b>

**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

<b>Location</b>	: Air Knives	<b>Monitor Period</b>	: Nov 15, 2022
<b>SLM Model</b>	: Cirrus CR162B	<b>Serial No.</b>	: G302742
<b>Site Operator</b>	: Mr. Watcharakan Pramakhate		

<b>Calibrator Model</b>	: Cirrus CR:515	<b>Serial No.</b>	: 94296
<b>Calibration Ref dB(A)</b>	: 94.0	<b>Certified Date</b>	: Dec 24, 2021
<b>SLM Reading / Adjus dB(A)</b>	: 93.7/0.1	<b>Expire Date</b>	: Dec 23, 2022
<b>Cal Sheet No.</b>	: CR-515-2022-142		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	Nov 15, 2022
09.00-17.00	114.4
<b>Standard*</b>	<b>140</b>

**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	: Nov 15, 2022
SLM Model	: Cirrus CR162B	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)	: 93.7/0.2	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-142		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	Nov 15, 2022
09.00-17.00	97.0
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	: Trimmer	Monitor Period	: Nov 15, 2022
SLM Model	: Cirrus CR162B	Serial No.	: G302741
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)	: 93.7/0.3	Expire Date	: Dec 23, 2022
Cal Sheet No.	: CR-515-2022-142		

TIME	PEAK SOUND PRESSURE LEVEL (dB)
	Nov 15, 2022
09.00-17.00	97.0
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/Nov22
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 15/11/2022	CALIBRATOR TYPE	: PULSAR : 22R
MEASUREMENT LOCATION	: Process area	SERIAL NO.	: 79781
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	08.53-16.53	7.3	73.7	85.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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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/Nov22
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 15/11/2022	CALIBRATOR TYPE	: PULSAR : 22R
MEASUREMENT LOCATION	: Process area	SERIAL NO.	: 79781
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	08.51-16.51	574.8	92.6	85.0

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Environmental Scientist

(Miss Sununta Sirawuttinanon)

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#### NOISE MEASUREMENT RESULT : NOISE DOSE

CLIENT NAME : POSCO Coated Steel (Thailand) Co., Ltd. REFERENCE NO. : POSCO-222018-Cert-NsDose/Nov22  
 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Noise Dosimeter  
 MEASUREMENT DATE : 15/11/2022 CALIBRATOR TYPE : PULSAR : 22R  
 MEASUREMENT LOCATION : Process area SERIAL NO. : 797#1  
 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	08.50-16.50	18.4	77.7	85.0

(Miss Katesarin Vorradetwittaya)

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 MEASUREMENT BY : SECOT Co., Ltd. INSTRUMENT : Noise Dosimeter  
 MEASUREMENT DATE : 15/11/2022 CALIBRATOR TYPE : PULSAR : 22R  
 MEASUREMENT LOCATION : Process area SERIAL NO. : 79781  
 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	08.52-16.52	27.7	79.4	85.0

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