

ผลการตรวจวัดคุณภาพอากาศภายนอกอาคาร

Report No. : 2023-500000353/002 (Page 1 of 7) Issued date: December 15, 2023

CLIENT : GRANDE ASSET HOTELS AND PROPERTY PUBLIC COMPANY LIMITED
CONTACT : Khun Suwit Polrachom
ADDRESS : 1 Soi Sukhumvit 13 (Sang Chan), Sukhumvit Road, Klongtoey Nue, Wattana, Bangkok 10110
Tel.02-098-1262 Email: suwit.polrachom@hyatt.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby

SAMPLING DATE : December 8-9, 2023

Date	Parameters		
	TSP (mg/m ³)	PM-10 (mg/m ³)	THC (ppm)
December 8-9, 2023	0.095	0.043	5.12
Standard*	0.33	0.12	-

Source: * The notification of the National Environment Board No.24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004)

SGS (THAILAND) LIMITED

Thepsan
(Thepsan Yommana)
Technical Manager

TY/SE/SRC/SRC

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby
SAMPLING DATE : December 8-9, 2023

Date	Time	NO ₂ Concentration (ppm)
08/12/2023	10:00-11:00	0.007
08/12/2023	11:00-12:00	0.006
08/12/2023	12:00-13:00	0.018
08/12/2023	13:00-14:00	0.014
08/12/2023	14:00-15:00	0.017
08/12/2023	15:00-16:00	0.012
08/12/2023	16:00-17:00	0.014
08/12/2023	17:00-18:00	0.017
08/12/2023	18:00-19:00	0.018
08/12/2023	19:00-20:00	0.016
08/12/2023	20:00-21:00	0.015
08/12/2023	21:00-22:00	0.014
08/12/2023	22:00-23:00	0.012
08/12/2023	23:00-00:00	0.009
09/12/2023	00:00-01:00	0.010
09/12/2023	01:00-02:00	0.018
09/12/2023	02:00-03:00	0.017
09/12/2023	03:00-04:00	0.012
09/12/2023	04:00-05:00	0.010
09/12/2023	05:00-06:00	0.008
09/12/2023	06:00-07:00	0.009
09/12/2023	07:00-08:00	0.010
09/12/2023	08:00-09:00	0.010
09/12/2023	09:00-00:00	0.010
1 hr-Minimum		0.006
1 hr-Maximum		0.018
Standard* (avg. 1 hr)		0.17

Analytical Method : - Chemiluminescence Method
Source : * The notification of the National Environment Board No.33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

Thapsan
 (Thapsan Yommana)
 Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby
SAMPLING DATE : December 8-9, 2023

Date	Time	SO ₂ Concentration (ppm)
08/12/2023	10:00-11:00	0.007
08/12/2023	11:00-12:00	0.009
08/12/2023	12:00-13:00	0.007
08/12/2023	13:00-14:00	0.005
08/12/2023	14:00-15:00	0.004
08/12/2023	15:00-16:00	0.006
08/12/2023	16:00-17:00	0.008
08/12/2023	17:00-18:00	0.009
08/12/2023	18:00-19:00	0.008
08/12/2023	19:00-20:00	0.006
08/12/2023	20:00-21:00	0.007
08/12/2023	21:00-22:00	0.004
08/12/2023	22:00-23:00	0.005
08/12/2023	23:00-00:00	0.005
09/12/2023	00:00-01:00	0.006
09/12/2023	01:00-02:00	0.004
09/12/2023	02:00-03:00	0.005
09/12/2023	03:00-04:00	0.005
09/12/2023	04:00-05:00	0.005
09/12/2023	05:00-06:00	0.004
09/12/2023	06:00-07:00	0.005
09/12/2023	07:00-08:00	0.004
09/12/2023	08:00-09:00	0.007
09/12/2023	09:00-00:00	0.006
1 hr-Minimum		0.004
1 hr-Maximum		0.009
Avg. 24 hrs		0.006
Standard* (avg. 1 hr)		0.30
Standard** (avg. 24 hrs)		0.12

Analytical Method :
Sources :

- UV Fluorescence Method
- * The notification of the National Environment Board No.21, B.E. 2544 (2001), subjected "The sulfur dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39D, dated April 30, B.E. 2544 (2001).
- ** The notification of the National Environment Board No.24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004)

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SGS (THAILAND) LIMITED



Thepsan Y.
 (Thepsan Yommana)
 Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby
SAMPLING DATE : December 8-9, 2023

Date	Time	CO Concentration (ppm)
08/12/2023	10:00-11:00	1.188
08/12/2023	11:00-12:00	2.128
08/12/2023	12:00-13:00	2.009
08/12/2023	13:00-14:00	1.111
08/12/2023	14:00-15:00	1.917
08/12/2023	15:00-16:00	2.579
08/12/2023	16:00-17:00	1.287
08/12/2023	17:00-18:00	1.588
08/12/2023	18:00-19:00	1.462
08/12/2023	19:00-20:00	1.156
08/12/2023	20:00-21:00	1.140
08/12/2023	21:00-22:00	0.993
08/12/2023	22:00-23:00	0.893
08/12/2023	23:00-00:00	0.984
09/12/2023	00:00-01:00	0.985
09/12/2023	01:00-02:00	0.783
09/12/2023	02:00-03:00	0.578
09/12/2023	03:00-04:00	0.869
09/12/2023	04:00-05:00	1.132
09/12/2023	05:00-06:00	1.237
09/12/2023	06:00-07:00	1.571
09/12/2023	07:00-08:00	1.554
09/12/2023	08:00-09:00	1.638
09/12/2023	09:00-00:00	1.755
1 hr-Minimum		0.578
1 hr-Maximum		2.579
Avg. 8 hrs	00:00-08:00	1.089
	08:00-16:00	1.791
	16:00-00:00	1.188
Standard* (avg. 8 hrs)		9
Standard* (avg. 1 hr)		30

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : * Notification of the National Environment Board No.10, B.E.2538 (1995), dated April 17, B.E.2538 (1995).

Thepsan Y.
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 Technical Manager



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby
SAMPLING DATE : December 8-9, 2023

Date	Time	December 8-9, 2023	
		WD	WS (m/s)
08/12/2023	10:00-11:00	NNE	1.8
08/12/2023	11:00-12:00	-	Calm
08/12/2023	12:00-13:00	N	2.2
08/12/2023	13:00-14:00	N	2.7
08/12/2023	14:00-15:00	-	Calm
08/12/2023	15:00-16:00	-	Calm
08/12/2023	16:00-17:00	-	Calm
08/12/2023	17:00-18:00	-	Calm
08/12/2023	18:00-19:00	-	Calm
08/12/2023	19:00-20:00	-	Calm
08/12/2023	20:00-21:00	-	Calm
08/12/2023	21:00-22:00	-	Calm
08/12/2023	22:00-23:00	-	Calm
08/12/2023	23:00-00:00	-	Calm
09/12/2023	00:00-01:00	-	Calm
09/12/2023	01:00-02:00	-	Calm
09/12/2023	02:00-03:00	-	Calm
09/12/2023	03:00-04:00	-	Calm
09/12/2023	04:00-05:00	-	Calm
09/12/2023	05:00-06:00	-	Calm
09/12/2023	06:00-07:00	-	Calm
09/12/2023	07:00-08:00	-	Calm
09/12/2023	08:00-09:00	-	Calm
09/12/2023	09:00-00:00	-	Calm

Measurement Method : - Wind speed and direction recording meter
Remarks : - WS = Wind Speed
 - WD = Wind Direction



Thepsan
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : December 8-9, 2023
SAMPLING LOCATION : Front of the Hotel Lobby

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	8.33	-	-
NNE	-	4.17	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	87.50				

Measurement Method : - Wind speed and direction recording meter
Remarks : - WS = Wind Speed
 - WD = Wind Direction



Thepsan
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 Technical Manager

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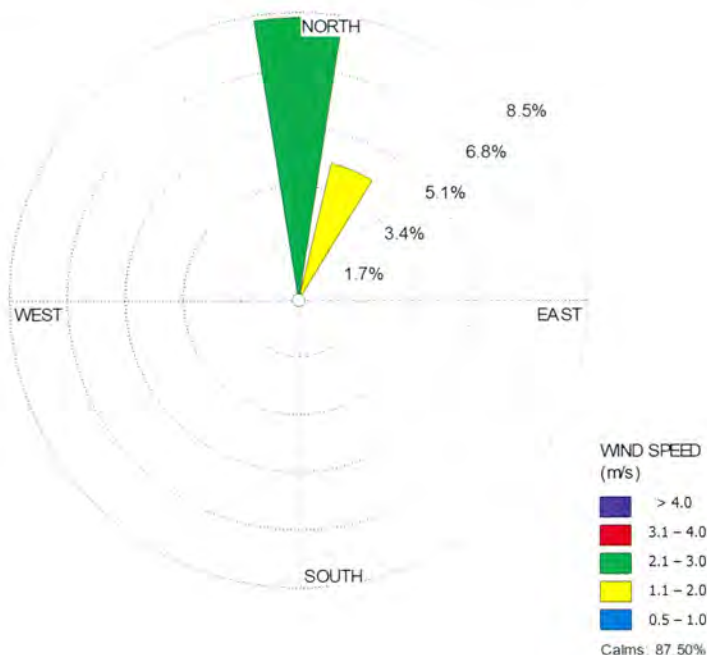
Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : Front of the Hotel Lobby

SAMPLING DATE : December 8-9, 2023

WIND ROSE PLOT

Sampling Location : Front of the Hotel Lobby
 Sampling Date : December 8-9, 2023



Wind Direction (Blowing from)

SGS (THAILAND) LIMITED

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