

ผลการตรวจวัดคุณภาพอากาศภายในอาคาร



Report No. : 2024-500002681/ 001 (Page 1 of 6)

Issued date: October 9, 2024

CLIENT : GRANDE ASSET HOTELS AND PROPERTY PUBLIC COMPANY LIMITED
CONTACT : Khun Pkhin Sriwichai
ADDRESS : 1 Soi Sukhumvit 13 (Sang Chan), Sukhumvit Road, Klongtoey Nue, Wattana, Bangkok 10110
Tel.091-868-8054
Email: pkhin.sriwichai@hyatt.com

Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #1 Lobby 1 Fl.

SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		10:00 hrs.	13:54 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	22.4	24.1	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	73.3	69.0	<70	<70
3. Carbon dioxide (CO ₂)	ppm	125 (514)	159 (548)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	0.06	0.11	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	5.87	5.95	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	21.29	27.65	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	10		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	30		<500	-

Remark : - Outdoor on October 4, 2024; Temperature is 29.3 °C, Relative Humidity is 76.1 %RH and Carbon dioxide is 389 ppm.
- Carbon dioxide result is calculated from actual result (number in bracket) minus actual outdoor results on survey date.
Source : * Code of Practice for Indoor air quality for air-conditioned building: Singapore Standard SS 554

TY/TT/APN/APN

SGS (THAILAND) LIMITED



Thepsan Y.
(Thepsan Yommana)
Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #2 Restaurant 4 Fl.

SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		10:28 hrs.	13:38 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	23.4	23.5	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	68.3	71.5	<70	<70
3. Carbon dioxide (CO ₂)	ppm	160 (549)	130 (519)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	0.09	0.02	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	4.88	4.15	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	9.28	6.82	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	30		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	Not Detected		<500	-

Remark :
- Outdoor on October 4, 2024; Temperature is 29.3 °C, Relative Humidity is 76.1 %RH and Carbon dioxide is 389 ppm.
- Carbon dioxide result is calculated from actual result (number in bracket) minus actual outdoor results on survey date.
Source :
* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

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Thupsan
(Thepsan Yommana)
Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #3 Buffet line 4 Fl.

SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		10:42 hrs.	13:44 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	21.8	22.2	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	67.4	62.8	<70	<70
3. Carbon dioxide (CO ₂)	ppm	167 (556)	108 (497)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	0.09	0.09	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	3.96	4.05	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	6.62	5.90	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	Not Detected		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	Not Detected		<500	-

Remark : - Outdoor on October 4, 2024; Temperature is 29.3 °C, Relative Humidity is 76.1 %RH and Carbon dioxide is 389 ppm.
- Carbon dioxide result is calculated from actual result (number in bracket) minus actual outdoor results on survey date.
Source : * Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

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(Thepsan Yommana)
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #4 Ballroom 5 Fl.

SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		09:32 hrs.	13:19 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	25.3	23.8	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	63.5	65.2	<70	<70
3. Carbon dioxide (CO ₂)	ppm	103 (492)	51 (440)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	0.00	0.00	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	4.82	6.00	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	29.69	17.03	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	20		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	100		<500	-

Remark : - Outdoor on October 4, 2024; Temperature is 29.3 °C, Relative Humidity is 76.1 %RH and Carbon dioxide is 389 ppm.
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Tel.091-868-8054
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #5 Regercy club 27 Fl.

SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		09:45 hrs.	13:30 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	24.6	23.8	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	72.8	72.8	<70	<70
3. Carbon dioxide (CO ₂)	ppm	123 (512)	43 (432)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.00	0.00	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	0.15	0.00	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	14.42	6.68	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	24.90	12.62	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	70		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	90		<500	-

Remark :
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Source :
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Analysis Report

SAMPLE DESIGNATED AS : Indoor Air Quality
SAMPLING LOCATION : Station #6 Engineering Workshop (carpentry) B Fl.

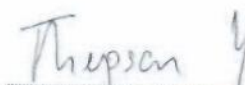
SAMPLING DATE : October 4, 2024

Parameters	Units	Results		Standard*	
		10:15 hrs.	13:59 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	25.5	25.0	24.0 - 26.0	23.0 - 25.0
2. Relative Humidity	%RH	70.8	72.3	<70	<70
3. Carbon dioxide (CO ₂)	ppm	230 (619)	263 (652)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0	0	<9	<9
5. Formaldehyde	ppm	0.12	0.15	<0.1	<0.08
6. Ozone	ppm	0.00	0.00	<0.1	<0.05
7. Total VOCs	ppm	2.90	4.84	<3	<1
8. Particulate matter less than 2.5 micron (PM-2.5)	µg/m ³	4.66	4.62	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m ³	39.28	20.99	<50	-
10. Total Bacteria (Airborne)	CFU/m ³	130		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m ³	10		<500	-

Remark : - Outdoor on October 4, 2024; Temperature is 29.3 °C, Relative Humidity is 76.1 %RH and Carbon dioxide is 389 ppm.
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