

ผลการตรวจวัดคุณภาพอากาศภายในอาคาร

**Report No.** : 2023-500000353/001 (Page 1 of 5) Issued date: December 13, 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** : Indoor Air Quality  
**SAMPLING LOCATION** : Station #1 Lobby ชั้น 1

**SAMPLING DATE**: December 8, 2023

Parameters	Units	Results		Standard*	
		08:57 hrs.	15:02 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	23.1	26.0	24.0 -26.0	23.0 -25.0
2. Relative Humidity	%RH	73.0	64.9	<70	<70
3. Carbon dioxide (CO <sub>2</sub> )	ppm	127 (530)	156 (559)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	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 <sup>3</sup>	8.78	11.98	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m <sup>3</sup>	14.33	20.81	<50	-
10. Total Bacteria (Airborne)	CFU/m <sup>3</sup>	40		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m <sup>3</sup>	Not Detected		<500	-

**Remark:** - Outdoor on December 8, 2023; Temperature is 29.2 °C, Relative Humidity is 66.5 %RH and Carbon dioxide is 403 ppm.  
**Source:** \* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

*Thepsan Y.*  
 (Thepsan Yommana)  
 Technical Manager



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## Analysis Report

**SAMPLE DESIGNATED AS** : Indoor Air Quality

**SAMPLING DATE:** December 8, 2023

**SAMPLING LOCATION** : Station #2 Restaurant ชั้น 4

Parameters	Units	Results		Standard*	
		09:44 hrs.	14:32 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	24.8	25.4	24.0 -26.0	23.0 -25.0
2. Relative Humidity	%RH	68.0	61.9	<70	<70
3. Carbon dioxide (CO <sub>2</sub> )	ppm	125 (528)	93 (496)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	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 <sup>3</sup>	10.28	9.88	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m <sup>3</sup>	12.53	17.32	<50	-
10. Total Bacteria (Airborne)	CFU/m <sup>3</sup>	20		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m <sup>3</sup>	20		<500	-

**Remark:** - Outdoor on December 8, 2023; Temperature is 29.2 °C, Relative Humidity is 66.5 %RH and Carbon dioxide is 403 ppm.  
**Source:** \* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

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 (Thepsan Yommana)  
 Technical Manager

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## Analysis Report

**SAMPLE DESIGNATED AS** : Indoor Air Quality

**SAMPLING DATE:** December 8, 2023

**SAMPLING LOCATION** : Station #3 Buffer line ชั้น 4

Parameters	Units	Results		Standard*	
		10:53 hrs.	14:38 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	27.1	25.7	24.0 -26.0	23.0 -25.0
2. Relative Humidity	%RH	61.3	63.8	<70	<70
3. Carbon dioxide (CO <sub>2</sub> )	ppm	169 (572)	88 (491)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	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 <sup>3</sup>	12.12	11.24	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m <sup>3</sup>	16.32	14.96	<50	-
10. Total Bacteria (Airborne)	CFU/m <sup>3</sup>	10		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m <sup>3</sup>	Not Detected		<500	-

**Remark:** - Outdoor on December 8, 2023; Temperature is 29.2 °C, Relative Humidity is 66.5 %RH and Carbon dioxide is 403 ppm.

**Source:** \* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554



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## Analysis Report

**SAMPLE DESIGNATED AS** : Indoor Air Quality

**SAMPLING DATE:** December 8, 2023

**SAMPLING LOCATION** : Station #4 Ballroom ชั้น 5

Parameters	Units	Results		Standard*	
		09:14 hrs.	14:44 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	25.3	25.3	24.0 -26.0	23.0 -25.0
2. Relative Humidity	%RH	68.6	61.0	<70	<70
3. Carbon dioxide (CO <sub>2</sub> )	ppm	96 (499)	10 (413)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	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 <sup>3</sup>	14.53	13.67	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m <sup>3</sup>	27.78	21.37	<50	-
10. Total Bacteria (Airborne)	CFU/m <sup>3</sup>	30		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m <sup>3</sup>	Not Detected		<500	-

**Remark:** - Outdoor on December 8, 2023; Temperature is 29.2 °C, Relative Humidity is 66.5 %RH and Carbon dioxide is 403 ppm.

**Source:** \* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

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## Analysis Report

**SAMPLE DESIGNATED AS** : Indoor Air Quality  
**SAMPLING LOCATION** : Station #5 ชั้น 27

**SAMPLING DATE:** December 8, 2023

Parameters	Units	Results		Standard*	
		09:29 hrs.	14:50 hrs.	SS 554:2009	SS 554:2016
1. Temperature	°C	25.2	24.5	24.0 -26.0	23.0 -25.0
2. Relative Humidity	%RH	71.4	74.6	<70	<70
3. Carbon dioxide (CO <sub>2</sub> )	ppm	162 (565)	15 (418)	700 above outdoor	700 above outdoor
4. Carbon monoxide (CO)	ppm	0.0	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 <sup>3</sup>	22.04	14.98	<35	<37.5
9. Particulate matter less than 10 micron (PM-10)	µg/m <sup>3</sup>	31.20	19.57	<50	-
10. Total Bacteria (Airborne)	CFU/m <sup>3</sup>	20		<500	<1,000
11. Yeast & Mold (Airborne)	CFU/m <sup>3</sup>	50		<500	-

**Remark:** - Outdoor on December 8, 2023; Temperature is 29.2 °C, Relative Humidity is 66.5 %RH and Carbon dioxide is 403 ppm.  
**Source:** \* Code of Practice for Indoor air quality for air-conditioned building; Singapore Standard SS 554

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