

# ANNEX G

# ODOUR PATROL RESULT

#### **ALS Technichem (HK) Pty Ltd**

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T. Hong Kong

T: +852 2610 1044 F: +852 2610 2021



	CERTIFICATE O	F ANALYSIS	
CLIENT:	OSCAR BIOENERGY JOINT VENTURE	WORK ORDER:	HK2432022
CONTACT:	MR LAWRENCE LEE		
ADDRESS:	NO. 5, SHAM FUNG ROAD, SIU HO WAN, NORTH LANTAU ISLAND, NT, HONG KONG	LABORATORY: SUB-BATCH: DATE OF PATROL: DATE OF ISSUE:	HONG KONG 0 09 AUGUST 2024 19 AUGUST 2024
PROJECT:	ODOUR PATROL FOR THE ORGANIC RESOURCES RECOVERY CENTRE PHASE 1 IN SIU HO WAN	SAMPLE TYPE:	ODOUR PATROL
SITE:	ORGANIC RESOURCES RECOVERY CENTRE PHASE 1 (O-PARK 1)	NO. OF LOCATIONS:	9
PO:	<del></del>		

### **COMMENTS**

Odour Patrol was conducted by the staff of ALS Technichem during 10:20 - 10:38 and 14:30 - 14:48.

Sampling information (Project name, Sample ID) is provided by client.

### **NOTES**

This is the Final Report and supersedes any preliminary report with this batch number.

The results related only to the items tested. All pages of this report have been checked and approved for release.

Fung Lim Chee Richard Managing Director Hong Kong

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.



Work Order: HK2432022

### 1. Summary of Work

The odour patrol was conducted during daytime and evening time. Detailed patrol route was shown in Appendix 1.

#### 2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (i.e. the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

The patrol work was conducted by two odour patrol team members from ALS Technichem (HK) Pty Ltd during each time session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area of the vicinity of the inspection zone.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

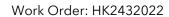
During the patrolling, the meteorological and surrounding information were recorded:

- the prevailing weather condition;
- the wind direction;
- the wind speed;
- location where odour is spotted;
- possible source of odour;
- perceived intensity of the odour;
- duration of odour: and
- characteristics of the odour detected.

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The odour patrol locations were shown in Appendix 1.





### 3. Odour Patrol Result

## 3.1 Daytime:

tion	Panellist	ther	<b>-:</b>	т	RH	ws	D ree)	Odour	Duration of from	On-Site C	On-Site Observation		
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source	
1	1	Sunny	10:20	33.5	66.8	0.2	325	1	Continuous	Side wind	Refuse	Tipping Hall	
1	2	Sunny	10.20	JJ.J	00.0	0.2	323	1	Continuous	Side wind	Refuse	Tipping Hall	
2	1	Sunny	10:22	34.9	68.6	0.0		1	Continuous	NA	Refuse	Tipping Hall	
2	2	Summy	10.22	34.7	00.0	0.0		1	Continuous	IVA	Neiuse	прріпу пап	
3	1	Sunny	10:25	34.7	70.8	0.4	330	1	Continuous	Downwind	Diagra	Biogas Tank Valve	
3	2	Sunny	10.25	34.7	70.0	0.4	330	2	Continuous	Downwind	Biogas	Holder	
4	1	Sunny	10:27	35.5	67.0	0.0		1	Continuous	NA	Mild rotten egg	Suspension Buffer	
4	2	Sunny	10.27	55.5	67.0	0.0		1	Continuous	NA	smell	Tank	
5	1	Sunny	10:31	33.0	74.6	0.9	303	0	NA	NA	NA	NA	
5	2	Sunny	10.31	33.U	74.0	0.7	303	0	INA	IVA	IVA	IVA	



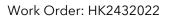
Work Order: HK2432022

tion	Illist	ther		т	RH	ws	D ree)	Odour		Direction from	On-Site Observation	
Location	Panellist	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
6	1	Sunny	10:32	33.1	78.3	0.6	301	0	NA	NA	NA	NA
0	2	Suring	10.32	33.1	70.5	0.8	301	0	NΑ	NA	IVA	IVA
7	1	Sunny	10:34	34.0	73.5	0.6	310	0	NA	NA	NA	NA
,	2	Suring	10.54	34.0	73.3	0.8	310	0	TVX	TVA	IVA	100
8	1	Sunny	10:36	33.7	70.2	0.8	314	0	NA	NA	NA	NA
0	2	Summy	10.30	33.7	70.2	0.8	314	0	IVA	IVA	IVA	IVA
9	1	Sunny	10:38	26.5	70.5			1	Continuous	NA	Artificial	Air Purifier
7	2	Suring	10.30	20.3	70.3			1	Continuous	IVA	Fragrance [Note 1]	All runner

#### Remark:

T: Air Temperature
RH: Relative Humidity
WS: Wind Speed
WD: Wind Direction
NA: Not Applicable

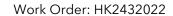
Note 1: Artificial fragrance is not classified as odour nuisance according to the contract requirement of O Park1 if odour intensity level 2 is perceived.





## 3.2 Evening time:

tion	llist	ther		т	RH	ws	D ree)	Odour	Duration of	Direction	On-Site O	bservation
Location	Panellist	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
1	1	Sunny	14:30	34.7	64.6	0.5	186	1	Intermittent	Side wind	Refuse	Tipping Hall
	2	Sunny	14.50	34.7	04.0	0.5	100	1	mtermittent	Side wind	Keluse	Tipping Hall
2	1	Sunny	14:32	34.2	67.5	0.4	127	1	Continuous	Downwind	Refuse	Tipping Hall
2	2	Summy	14.52	34.2	67.5	0.4	127	1	Continuous	Downwind	Netuse	прріпу пап
3	1	Sunny	14:35	34.2	68.7	1.2	163	1	Continuous	Upwind	Biogas	Biogas Tank Valve Holder
3	2	Summy	14.55	34.2	00.7	1.2	103	0	NA	NA	NA	NA
4	1	Sunny	14:36	34.0	72.7	0.7	155	0	NA	NA	NA	NA
4	2	Summy	14.50	34.0	12.1	0.7	133	0	IVA	NA .	IVA	IVA
5	1	Suppy	14:39	35.7	72.6	0.6	299	1	Continuous	Side wind	Compost	Composting Hall
5	2	Sunny	14:39	35./	/2.0	0.6	277	1	Continuous	Side wind	Compost	Composting Hall





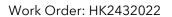
Location	Panellist	ther	T:	т	RH	WS	WD (Degree)	Odour	Duration of Odour	Direction	On-Site Observation	
Loca	Pane	Weather	Time	(°C)	(%)	(m/s)	W (Deg	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
6	1	Sunny	14:41	34.7	72.3	0.6	284	0	NA	NA	NA	NA
0	2	Suring	14.41	54.7	72.5	0.8	204	0	NA .	NA	IVA	IVA
7	1	Sunny	14:43	35.9	70.6	0.4	106	0	NA	NA	NA	NA
/	2	Sunny	14.43	33.7	70.0	0.4	108	0	IVA	IVA	TVA	177
8	1	Sunny	14:46	35.5	73.2	1.2	022	0	NA	NA	NA	NA
0	20	Suring	14.40	55.5	75.2	1.2	022	0	IVA	INA .	IVA	IVA
9	1	Sunny	14:48	26.9	68.6			1	Continuous	NA	Artificial	Air Purifier
7	2	Suring	14.40	20.7	00.0			1	Continuous	INA	Fragrance <sup>[Note 1]</sup>	All Fullile

#### Remark:

T: Air Temperature
RH: Relative Humidity
WS: Wind Speed
WD: Wind Direction

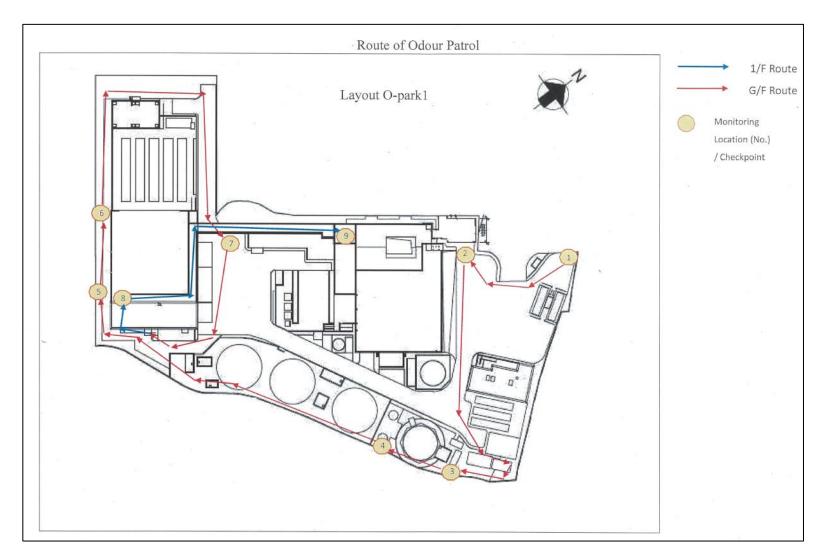
NA: Not Applicable

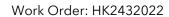
Note 1: Artificial fragrance is not classified as odour nuisance according to the contract requirement of O Park1 if odour intensity level 2 is perceived.





## **APPENDIX 1**



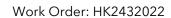




### **APPENDIX 2**

## A2.1 Odour Patrol at Different Locations - Morning time





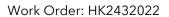








Location: 7





## A2.1 Odour Patrol at Different Locations - Evening time



Location: 1



Location: 4



Location: 2



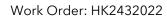
Location: 5



Location: 3



Location: 6







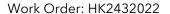




Location: 8



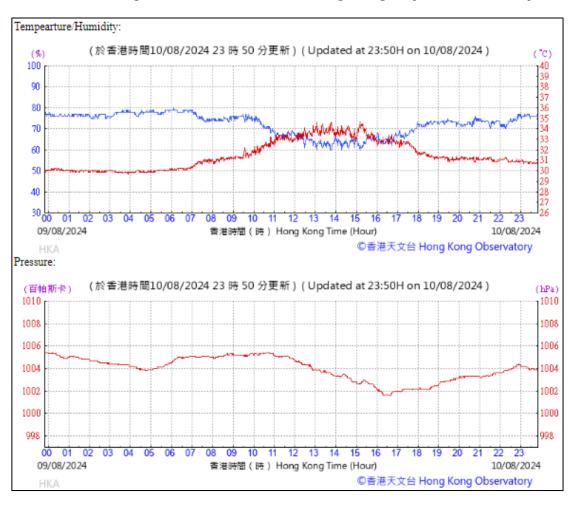
Location: 9

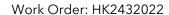




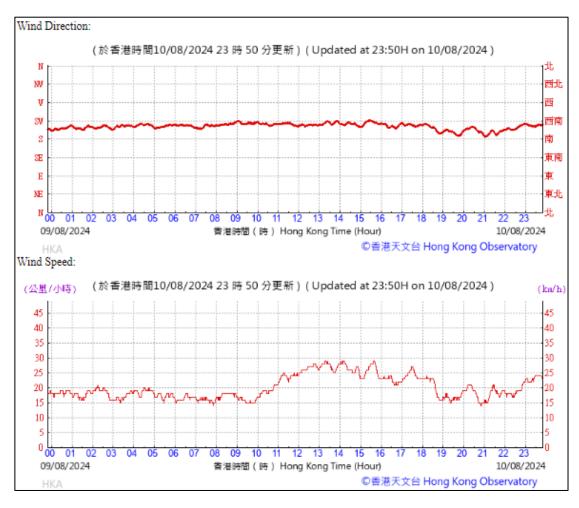
APPENDIX 3

### **Extract of Meteorological Observations from Hong Kong Airport Observatory Station**









----- END OF REPORT-----

#### **ALS Technichem (HK) Pty Ltd**

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T. Hong Kong

T: +852 2610 1044 F: +852 2610 2021



CERTI	EIC	$\Lambda T \Gamma$	OF	$\Lambda NI$	AI \	/CIC
CELLI	$\Gamma$	AIL	$\bigcirc$	AIN.	AL	

CLIENT: OSCAR BIOENERGY JOINT

WORK ORDER:

HK2433076

**VENTURE** 

CONTACT: MS LAWRENCE LEE

NO. 5, SHAM FUNG ROAD,

LABORATORY:

HONG KONG

SIU HO WAN, NORTH LANTAU

SUB-BATCH:

ISLAND, NT, HONG KONG

DATE OF PATROL:

15 AUGUST 2024

DATE OF ISSUE:

27 AUGUST 2024

PROJECT:

ADDRESS:

AD HOC ODOUR PATROL FOR

THE ORGANIC RESOURCES
RECOVERY CENTRE PHASE 1

SAMPLE TYPE:

LOCATIONS:

ODOUR PATROL

SITE:

ORGANIC RESOURCES

RECOVERY CENTRE PHASE 1

(O-PARK 1), SIU HO WAN

NO. OF

9

PO NO.

PO24070046

#### COMMENTS

This was an ad hoc odour patrol event requested by the client and conducted by ALS staff during 10:37 - 10:58 and 13:14 - 13:34. Second round was conducted due to having odour Intensity Level exceeding 2 during the first round Patrol.

#### NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

The results related only to the items tested. Sampling information (Project name, Sample ID) is provided by the client. All pages of this report have been checked and approved for release.

Fung Lim Chee, Richard Managing Director - Hong Kong

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.



Work Order: HK2433076

### 1. Summary of Work

This ad hoc odour patrol was conducted at nine (9) selected locations as requested by the client. Second round was conducted after 1 hour time from the completion of first round patrol.

#### 2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (i.e. the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

The patrol work was conducted by two odour patrol team members from ALS Technichem (HK) Pty Ltd during each time session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area of the vicinity of the inspection zone.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

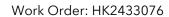
During the patrolling, the meteorological and surrounding information were recorded:

- the prevailing weather condition;
- the wind direction;
- the wind speed:
- location where odour is spotted;
- possible source of odour;
- perceived intensity of the odour;
- duration of odour; and
- characteristics of the odour detected.

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The odour patrol location was shown in Appendix 1.

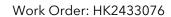




## 3. Odour Patrol Result

## 3.1 First Round

tion	llist	ther	i	т	DII (0/)	WS	D ree)	Odour	Duration of	Direction	On-Site O	bservation
Location	Panellist	Weather	Time	(°C)	RH (%)	(m/s)	WD (Degree)	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
1	1	Paining	10.27	28.6	81.7	3.1	157	2	Continuous	Side wind	Refuse	Tipping Hall
	2	Raining	10:37	20.0	01.7	3.1	157	2	Continuous	Side wind	Refuse	Tipping Hall
2	1	Raining	10:39	29.0	85.1	1.0	093	3	Continuous	Downwind	Refuse	Tipping Hall
2	2	Kaming	10.39	29.0	05.1	1.0 09	073	2	Continuous	Downwind	Keiuse	Tipping Hall
3	1	Raining	10:44	28.9	95.3	0.0		2	Continuous	Downwind	Diogra	Biogas Tank
3	2	Kaming	10.44	20.7	93.3	0.0	1	2	Continuous	Downwind	Biogas	Valve Holder
4	1	Daining	10:45	28.3	97.7	0.0		0	NA	NA	NIA	NA
4	2	Raining	10:45	20.3	97.7	0.0		0	NA	IVA	NA	IVA
	1	Dainin -	10.40	2/ 0	07.4	0.9	12/	1	linka maa ikka siik	Dannanis d	Cranni	Nearby
5	2	Raining	10:48	26.8	96.4	0.9	136	1	Intermittent	Downwind	Grassy	Vegetation



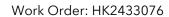


tion	Ilist	ther	<b>-:</b>	Т	RH	ws	D ree)	Odour		Direction from		
Location	Panellist	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	Source	Odour Characteristics	Potential Odour Source
	1	Daining	10.40	26.8	95.6	0.5	325	0	NIA	NA	NIA	N
6	2	Raining	10:49	20.0	73.0	0.5	323	0	NA	IVA	NA	NA
7	1	Deimin	10.52	27.1	07.0	1.0	100	1	Caratian	Side wind	Define	Camara atian millall
/	2	Raining	10:52	27.1	97.9	1.9	1.9 109	1	Continuous	Side wind	Refuse	Composting Hall
8	1	Deimin	10.55	27.2	97.2	1.0	312	1	1	Cialaia al	Comment	Camara atian millall
0	2	Raining	10:55	21.2	91.2	1.0	312	1	Intermittent	Side wind	Compost	Composting Hall
9	1	Deimin	10.50	24.2	100			1	Caratina	NIA	Determent	Ela a n
9	2	Raining	10:58	24.3	100			1	Continuous	NA	Detergent	Floor

### Remark:

T: Air Temperature; RH: Relative Humidity; WS: Wind Speed; WD: Wind Direction.

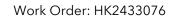
NA - Not Applicable





## 3.2 Second Round

tion	llist	ther		т		ws	D ree)	Odour	Duration of	Direction	On-Site O	bservation
Location	Panellist	Weather	Time	(°C)	RH (%)	(m/s)	WD (Degree)	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
1	1	Daining	13:14	27.4	79.0	0.0		0	NA	NA	NA	NA
	2	Raining	13:14	27.4	79.0	0.0		0	NA	INA	INA INA	IVA
2	1	Raining	13:16	27.0	85.5	0.0		2	Continuous	NA	Refuse	Tipping Hall
2	2	Raining	13.10	27.0	65.5	0.0	1	2	Continuous	INA	Keiuse	Tipping Hall
3	1	Raining	13:21	26.7	95.9	0.0		1	Continuous	NA	Diagra	Biogas Tank
3	2	Kairiing	13.21	20.7	73.7	0.0	1	1	Continuous	IVA	Biogas	Valve Holder
4	1	Daining	13:22	26.8	95.4	0.0		0	NA	NA	NA	NA
4	2	Raining	13:22	20.0	95.4	0.0		0	NA	NA	IVA	IVA
F	1	Dainin	12.25	25.2	95.2	0.0		1	Cantinua	NIA	Cranni	Nearby
5	2	Raining	13:25	25.3	¥5.∠	0.0		1	Continuous	NA	Grassy	Vegetation



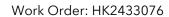


tion	Panellist	ther	T:	т	RH	ws	D Iree)	Odour	r   Duration of	Direction	On-Site Observation	
Location	Pane	Weather	Time	(°C)	(%)	(m/s)	WD (Degree)	Intensity	Odour	from Source	Odour Characteristics	Potential Odour Source
6	1	Raining	13:26	27.2	95.8	0.0	NA	0	NA	NA	NA	NA
0	2	Kaming	13.20	21.2	73.0	0.0	IVA	0	NA	IVA	IVA	IVA
7	1	Daining	13:29	26.7	97.5	0.4	204	0	NA	NA	NA	NA
/	2	Raining	13:29	20.7	97.3	0.4	304	0	IVA	IVA	IVA	14/1
8	1	Daining	13:32	26.8	97.9	0.5	358	0	NA	NA	NA	NA
0	2	Raining	13.32	20.0	77.7	0.5	330	0	NA	NA	INA	IVA
9	1	Dainin -	12.24	22.1	100			1	Cantinua	NIA	Determent	Пол
9	2	Raining	13:34	23.1	100			1	Continuous	NA	Detergent	Floor

### Remark:

T: Air Temperature;
RH: Relative Humidity;
WS: Wind Speed;
WD: Wind Direction.

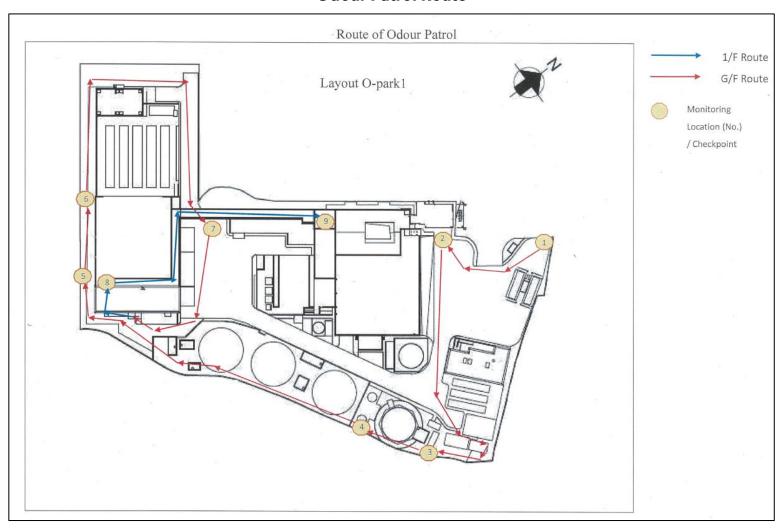
NA - Not Applicable





### **APPENDIX 1**

## **Odour Patrol Route**







APPENDIX 2

Odour Patrol Locations Photos - First Round



Location: 1



Location: 2



Location: 3



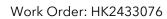
Location: 4



Location: 5



Location: 6



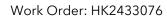








+Location: 7 Location: 8 Location: 9





## **Odour Patrol Locations Photos - Second Round**



Location: 1



Location: 2



Location: 3



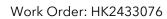
Location: 4



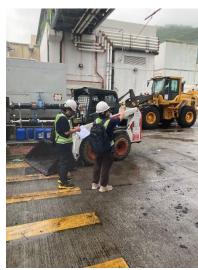
Location: 5



Location: 6







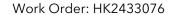




+Location: 7

Location: 8

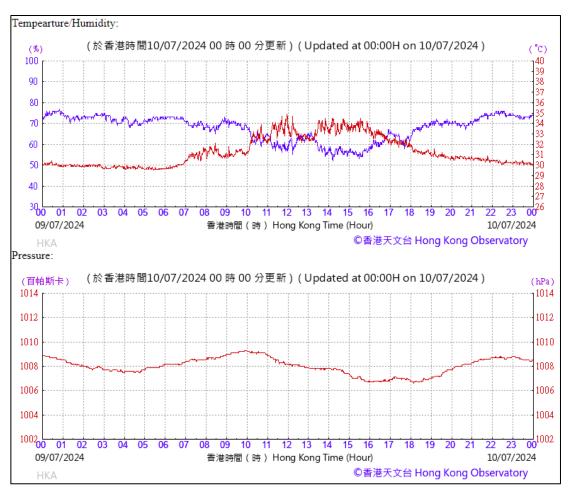
Location: 9

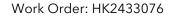




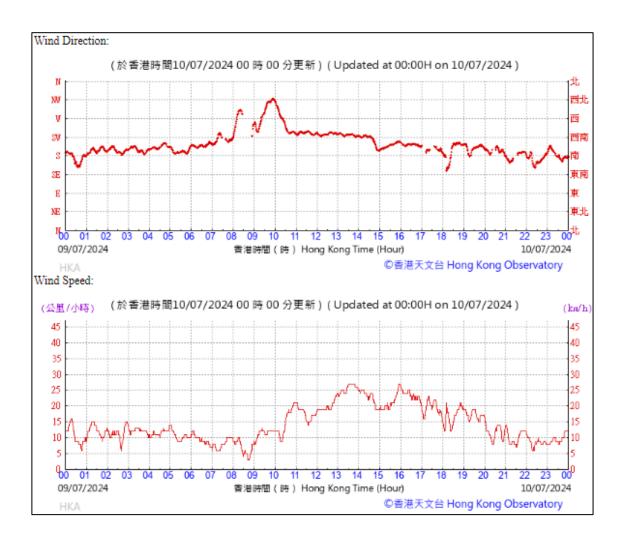
APPENDIX 3

Extract of Meteorological Observations from Hong Kong Airport Observatory Station









----- END OF REPORT-----