#### 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0039

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Dec-22		Next Due Date:	: 9-Feb-23		Operator:	SK
Equipment No.:	ent No.: A-01-05		Model No.:	GS	52310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re, Ta (K)	292.6	Pressure, Pa			761.7	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial		3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] <sup>1/2</sup> -bc} / m	c
			G 19 41 65	EGD G			
			Calibration of Trice	SP Sampler		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in.	[ΔW x (Pa/76	50) x (298/Ta)] <sup>1/2</sup> -axis
1	13.2		3.67	62.39	9.9		3.18
2	10.4		3.26	55.43	7.3		2.73
3	7.6		2.79	47.44	5.4	Ź	2.35
4	5.6		2.39	40.78	3.4		1.86
5	3.3		1.84	31.40	1.9		1.39
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0578 coefficient* =	0	.9983 calibrate.		-0.442	1	
E 4l TCD E:	-1.1 C-1:1	C 4-1 O-44	Set Point Ca	llculation			
From the TSP Fi							
From the Regress	sion Equation, th	ne "Y" value acc	ording to				
		mw x Q	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	$[98/Ta]^{1/2}$		
Therefore, Se	et Point; W = ( m	nw x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Га / 298 ) =	4.09		
Remarks:							
Conducted by:	Wong Sł	ning Kwai	Signature:	K	<u></u>	Date:	10-Dec-22
Checked by:	Henry	Leung	Signature:	\-lem	J Xon	Date:	10-Dec-22

#### 5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0039

Project No.	AM2 - Sai Tso	Wan Recreation	Ground			_	
Date:	9-D	ec-22	.22 Next Due Date: 9-Feb-23		Operator:	SK	
Equipment No.:	A-(	01-08	.08 Model No.: GS2310		S2310	Serial No.	1287
·						_	
	T.		Ambient C	Condition			
Temperatur	re, Ta (K)	292.6	Pressure, Pa	(mmHg)		761.7	
		0					
Serial	No	3864	fice Transfer Sta	0.05922	Intercept	t ha	-0.02420
Last Calibra	*	31-Jan-22	Slope, mc		$c = [\Delta H \times (Pa/760)]$		
Next Calibra		31-Jan-23			$(Pa/760) \times (298/7)$		
Next Callula	ation Date.	31-3411-23		Qstu ([ΔΠ A	(1 a/ 700) X (250/	1 a) j - b c j / h	TC .
		•	Calibration of	TSP Sampler			
Calil4		Or	fice			HVS	
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(0) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] <sup>1/2</sup> Y-axis
1	13.4		3.70	62.86	9.5		3.11
2	10.7		3.30	56.21	7.0	2.67	
3	7.9	:	2.84	48.36	5.4		2.35
4	5.5		2.37	40.42	3.7		1.94
5	3.3		1.84	31.40	2.1		1.46
By Linear Regr Slope, mw = Correlation	0.0511	X 0		Intercept, bw	-0.137	77	
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acc	ording to				
		mw x C	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	x (Pa/760) x (29	$98/Ta) ^{1/2}$		
					7.		
Therefore, Se	et Point; $W = (n + 1)$	nw x Qstd + bw )	$^{2}$ x ( 760 / Pa ) x (	Ta / 298) =	4.16		
Remarks:							
				مآ			
Conducted by:	Wong S	ning Kwai	Signature:		<u> </u>	Date:	10-Dec-22
						_	
Checked by:	Henry	Leung	Signature:	-lem	y day	Date:	10-Dec-22

#### 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0039

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	9-De	c-22 Next Due Date		8-Feb-23		Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS	GS2310		10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	292.6	Pressure, Pa			761.7	
			ifice Transfer Star				
Serial		3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$Qsta = \{  \Delta H  X \}$	(Pa/760) x (298/7	la)j -bc}/m	
		•	Calibration of	TSP Sampler			
G 1" :		Or	fice	151 Samplet		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	(0) x (298/Ta)] <sup>1/2</sup> -axis
1	13.0		3.64	61.92	9.0	3	3.03
2	10.3		3.24	55.16	6.8		2.63
3	8.2		2.89	49.26	5.2	2	2.30
4	5.2		2.30		3.2	]	1.81
5	2.8		1.69	28.96	2.0		1.43
By Linear Regr Slope , mw =		<b>K</b>	1	Intercept, bw =	-0.048	4	
Correlation	coefficient* =	0	.9957	-			
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.				
			G + P · + G				
From the TSP Fi	ield Calibration (	Curve take Ostd	Set Point Ca	alculation			
From the Regres							
From the Regres	sion Equation, u	ie i vaiue acc	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore Sc	at Doint: W = ( m	ov v Octd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( <sup>7</sup>	To / 208 ) —	4.12		
Therefore, Se	et i omit, w – ( m	iw x Qsiu + 0w )	x ( /00 / 1 a ) x (	1a / 296 j –	4.12		
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:	K	<u></u>	Date:	10-Dec-22

# High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/017 Project No. CKL 2 - Flat 103 Cha Kwo Ling Village 5-Nov-22 Next Due Date: 5-Jan-23 Date: Operator: SK Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956 **Ambient Condition** Temperature, Ta (K) 294.5 Pressure, Pa (mmHg) 764.3 **Orifice Transfer Standard Information** 0.05922 Intercept, bc 3864 Slope, mc -0.02420 Serial No.  $mc \times Ostd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 31-Jan-22 Qstd =  $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ 31-Jan-23 Next Calibration Date: **Calibration of TSP Sampler** Orfice HVS Calibration  $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$  $\Delta H$  (orifice), Ostd (CFM)  $\Delta W$  (HVS), in. Point  $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ in. of water X - axis of water Y-axis 1 12.5 3.57 60.63 9.6 3.13 2 10.5 3.27 55.61 7.3 2.73 2.92 49.78 5.5 2.37 4 5.1 2.28 38.88 2.9 1.72 2.7 1.7 5 1.66 28.40 1.32 By Linear Regression of Y on X Intercept, bw :\_\_\_\_ -0.3652 Slope , mw = 0.0560 Correlation coefficient\* = 0.9931 \*If Correlation Coefficient < 0.990, check and recalibrate. **Set Point Calculation** From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw =  $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks: Conducted by: Wong Shing Kwai Checked by: Henry Leung

#### 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/018

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	5-Jan-23		Next Due Date:	Date: 7-Mar-23		Operator:	SK
Equipment No.:	uipment No.: A-01-55		Model No.: TE 5170		E 5170	Serial No.	1956
			Ambient C	ondition			
Temperatur	re Ta (K)	291.5	Pressure, Pa			767.6	
Temperatur	ic, 1a (ix)	271.3	r ressure, r a	(IIIIII1g)		707.0	
		Ori	fice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	, bc	-0.02420
Last Calibra	ntion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x} ] \}$	(Pa/760) x (298/7	Γa)] <sup>1/2</sup> -bc} / m	c
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	1/2
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/76	$(0) \times (298/\text{Ta})]^{1/2}$	Qstd (CFM) X - axis	$\Delta$ W (HVS), in. of water		50) x (298/Ta)] <sup>1/2</sup> -axis
1	12.7		3.62	61.56	9.8	,	3.18
2	10.6		3.31	56.27	7.5	2.78	
3	8.5		2.96	50.43	5.6	2.40	
4	5.2		2.32		3.1	1.79	
5	2.8		1.70	29.12	1.9		1.40
By Linear Regr Slope, mw = Correlation o	0.0548 coefficient* =	0	.9926	Intercept, bw =	-0.287	1	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Ostd					
From the Regres		_					
	1 , .		-		- 10		
		mw x Q	$\mathbf{std} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	<b>98/Ta</b> )] <sup>1/2</sup>		
Therefore, Se	et Point; W = ( m	nw x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.15		
Remarks:							
Conducted by:	Wong Sh	ning Kwai	Signature:	X	<u></u>	Date:	5-Jan-23
Checked by:	Henry	Leung	Signature:	\-la-	g Mong	Date:	5-Jan-23

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00171 Issue Date : 01 Apr 2022

Application No. : HP00046

**Certificate of Calibration** 

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-05

Manufacturer: : BSWA Technology

Other information : N

Model No.	BSWA 308
Serial No.	580287
Microphone No.	570610

Date Received : 25 Mar 2022

Test Period : 30 Mar 2022 to 30 Mar 2022

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00171 Issue Date : 01 Apr 2022

Application No. : HP00046

## **Certificate of Calibration**

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	0.0	± 1.5
114.0	114.2	+0.2	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00181 Issue Date : 24 May 2022

Application No. : HP00060

**Certificate of Calibration** 

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-06

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804

Date Received : 16 May 2022

Test Period : 24 May 2022 to 24 May 2022

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00181 Issue Date : 24 May 2022

Application No. : HP00060

## **Certificate of Calibration**

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	114.1	+0.1	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00288 Issue Date : 10 Nov 2022

Application No. : HP00176

**Certificate of Calibration** 

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-13-03

Manufacturer: : SOUNDTEK

Other information : Model No. ST-120

| Serial No. | 181001637

Date Received : 10 Nov 2022

Test Period : 10 Nov 2022 to 10 Nov 2022

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with

the documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00288 | Issue Date : 10 Nov 2022

Application No. : HP00176

## **Certificate of Calibration**

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB	
94.0	94.1	+ 0.1	± 0.3	
114.0	114.2	+ 0.2	± 0.5	

#### Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -



#### **Certificate of Calibration**

Description:	Laser Dust Mo	nitor		Date of	f Calibration	29-Nov-22
Manufacturer:	Sibata Scientifi	ic Technology LTD.		Validity of Calibra	tion Record	29-Jan-23
Model No.:	LD-3B					
Serial No.:	2Y6194					
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.:	A-01-03	Before Sensi	itivity Adjustment	578	
Tisch Calibratio	n Orifice No.:	3864	After Sensiti	vity Adjustment	578	
		Calibra	ntion of 1 hr T	SP		
Calibration		<b>Laser Dust Monitor</b>			HVS	
Point	Total Count	Count / Minute <b>X-axis</b>	•	Mass	concentration (μ <b>Y-axis</b>	ıg/m³)
1	4080	68.0			133.0	
2	3600	60.0			115.0	
3	2880	48.0			94.0	
Avei	rage	58.7			114.0	
Slope, mw =	1.93	42		rcept, bw =	0.5263	
Set Correlation ] SCF = [ K=Hig		oler / Dust Meter, (μg/m3) ]		1.9		
The Dust Monite (CF) between the	or was compared e Dust Monitor a	the instruction manual: d with a calibrated High Volumend High Volume Sampler. ed by HOKLAS laboratory	•		d to generate the	Correlation Factor
Calibrated by: Techni	cal Officer (Wor	ng Shing Kwai)			Project Manager	1 1



#### **Certificate of Calibration**

_					
It :	is certified that the iten	n under calibration	i has been calibrated by	v corresponding calib	rated High Volume Sample

Description:	Laser Dust Mo	nitor		Date of	f Calibration	29-Jan-23
Manufacturer:	Sibata Scientif	ic Technology LTD.		Validity of Calibra	tion Record	31-Mar-23
Model No.:	LD-3B					
Serial No.:	2Y6194					
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.:	A-01-03	Before Sensi	tivity Adjustment	578	
Tisch Calibratio	on Orifice No.:	3864	After Sensiti	vity Adjustment _	578	
			Calibration of 1 hr T	SP		
Calibration		Laser Dust Moni	tor		HVS	
Point	Total Count	Count / <b>X-</b> a		Mass	concentration (µ <b>Y-axis</b>	ug/m³)
1	4080	70	0.0		135.0	
2	3600	62	2.0		117.0	
3	2880	50	0.0		95.0	
Ave	lage		).7		115.7	
By Linear Regi	ression of Y on		Inte	rcept, bw =	-4.8684	<u>.                                    </u>
Correl	ation coefficien	t* =	0.9984			
Set Correlation : SCF = [ K=Hig		pler / Dust Meter, ( $\mu$	g/m3) ]	1.9		
The Dust Monit (CF) between th	or was compared the Dust Monitor	the instruction manual with a calibrated High and High Volume Samed by HOKLAS laborated by HOKLAS laborate	h Volume Sampler and pler.		I to generate the	Correlation Factor
Calibrated by	:;ical Officer (Wo	ng Shing Kwai)	_	Approved by: _	Project Manager	(Henry Leung)



#### **Certificate of Calibration**

Description:	Digital Dust I	ndicator		Date o	f Calibration	29-Nov-22
Manufacturer:	Sibata Scienti	fic Technology LTD.	<u> </u>	Validity of Calibra	ntion Record	29-Jan-23
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	652	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	M	ass Concentration (μg/ <b>X-axis</b>	m3)	Mass	s concentration (µ Y-axis	$\lg/m^3$ )
1		69.0			133.0	
2		62.0			115.0	
3		51.0			94.0	
Average		60.7			114.0	
Slope , mw = Correlation co	2.143 pefficient* =	0.9965		cept, bw =	-16.0526	·
			t Correlation F	actor		
		High Volume Sampler ( Oust Meter (μg/m³)	μg/m <sup>°</sup> )	114.0		
Measureing time	•	Just Metel (μg/III )		60.7		
Set Correlation F	•				00.0	
		npler / Dust Meter, (μ	g/m3) ]	1.9		
The Dust Monitor Factor (CF) betw	or was compare veen the Dust N	o the instruction manual of with a calibrated Hig Monitor and High Voluted by HOKLAS laborated	gh Volume Sam me Sampler.		was used to gener	ate the Correlation
Calibrated by:		ng Shing Kwai)	_		Manager (Henry	, ,



#### **Certificate of Calibration**

Description:	Digital Dust In	ndicator		Date o	f Calibration	29-Jan-23
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	ntion Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	652	
		Cal	libration of 1 h	r TSP		
Calibration		<b>Laser Dust Monitor</b>			HVS	
Point	Ma	ass Concentration (μg/ι	m3)	Mass	concentration (µ	g/m <sup>3</sup> )
1		70.0			Y-axis 131.0	
2		63.0			118.0	
3		52.0			96.0	
Average		61.7			115.0	
Slope, mw =	1.949		IIIIero		-5.2126	
Correlation co	-	0.9998		eept, bw =		
Correlation co	oefficient* = _	0.9998 Set	t Correlation F			
Correlation co	centration by F	0.9998  Set  High Volume Sampler (	t Correlation F		115.0	
Correlation co	centration by E	0.9998 Set	t Correlation F			
Correlation co	centration by Ecentration by E	0.9998  Set  High Volume Sampler (	t Correlation F		115.0 61.7	
Particaulate Con Particaulate Con Measureing time Set Correlation F	centration by Ecentration by Ecentra	0.9998  Set  High Volume Sampler (	t Correlation F (µg/m³)		115.0 61.7	
Particaulate Con Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by F centration by E centration by	0.9998  Set High Volume Sampler ( Dust Meter (μg/m³)	g/m3) ]  al: gh Volume Sam me Sampler.	actor  1.9  pler and The result	115.0 61.7 60.0	rate the Correlation



#### **Certificate of Calibration**

Description:	Digital Dust I	ndicator		Date o	f Calibration	29-Nov-22
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	tion Record	29-Jan-23
Model No.:	LD-5R					
Serial No.:	8Y2373					
Equipment No.:	SA-01-05		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	657	
Tisch Calibration	Orifice No.:	3864	After Sensitiv	ity Adjustment	657	
		Ca	libration of 1 h	r TSP		
Calibration		<b>Laser Dust Monitor</b>	•		HVS	
Point	M	ass Concentration (μg/ <b>X-axis</b>	(m3)	Mass	concentration (µ	ug/m³)
1		70.0			<b>Y-axis</b> 133.0	
2		64.0			115.0	
3		53.0			94.0	
Average		62.3			114.0	
Slope , mw = Correlation co	2.240 efficient* =	0.9923		cept, bw =	-26.0404	
D	1 . 7		t Correlation F	Cactor I		
	-	High Volume Sampler ( Oust Meter (μg/m³)	(μg/m³)	114.0		
Measureing time	•	Just Meter (μg/III )		62.3 60.0		
Set Correlation F	· ·				00.0	
		npler / Dust Meter, (μ	g/m3) ]	1.8		
The Dust Monitor Factor (CF) betw	or was compare een the Dust N	o the instruction manual of with a calibrated High Monitor and High Voluted by HOKLAS laborated	gh Volume Sam me Sampler.		vas used to gener	rate the Correlation
Calibrated by:		0L	_	Approved by:	\-lem	y day



#### **Certificate of Calibration**

Description:	Digital Dust I	ndicator		Date of	f Calibration	29-Jan-23
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	tion Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	8Y2373					
Equipment No.:	SA-01-05		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	657	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	657	
		Cal	libration of 1 h	r TSP		
Calibration		<b>Laser Dust Monitor</b>	•		HVS	
Point	M	ass Concentration (μg/1 <b>X-axis</b>	m3)	Mass	concentration (µ	g/m <sup>3</sup> )
1		69.0			Y-axis 131.0	
2		61.0			112.0	
3		50.0			95.0	
Average		60.0			112.7	
By Linear Regr Slope , mw =			Inter	cept, bw =	0.2491	
Slope , mw = Correlation co	1.873	0.9924		cept, bw =	0.2491	
Slope , mw = Correlation co	1.873 pefficient* =	0.9924 Set	t Correlation F			
Slope , mw = Correlation co	1.873 pefficient* = centration by F	Set High Volume Sampler (	t Correlation F		112.7	
Slope , mw = Correlation co  Particaulate Con Particaulate Con	1.873 pefficient* =	0.9924 Set	t Correlation F			
Slope , mw = Correlation co	1.873 pefficient* = centration by F centration by E c, (min)	Set High Volume Sampler (	t Correlation F		112.7 60.0	
Slope , mw = Correlation co  Particaulate Con Particaulate Con Measureing time Set Correlation F	1.873 pefficient* =	Set High Volume Sampler (	t Correlation F (μg/m³)		112.7 60.0	
Slope , mw = Correlation co  Particaulate Con Particaulate Con Measureing time Set Correlation F SCF = [K=Hig]  In-house method The Dust Monito Factor (CF) betw	centration by F centration by	Set  High Volume Sampler (  Oust Meter (µg/m³)	t Correlation F (μg/m³)  g/m3)    al: gh Volume Samme Sampler.	1.9	112.7 60.0 60.0	rate the Correlation



#### **Certificate of Calibration**

Description:	Digital Dust Indicator	Date	of Calibration	29-Jan-23	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibr	ration Record	31-Mar-23	
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity 0.001 mg/m3	_		
High Volume Sa	ampler No.: A-01-03	Before Sensitivity Adjustment	645		
Tisch Calibratio	on Orifice No.: 3864	After Sensitivity Adjustment	645		
	Ca	alibration of 1 hr TSP			
Calibration	Laser Dust Monito	r	HVS		
Point	Mass Concentration (μg <b>X-axis</b>	/m3) Mas	ss concentration (µ <b>Y-axis</b>	ıg/m³)	
1	67.0		134.0		
2	60.0		116.0		
3	49.0		96.0		
Average	58.7		115.3		
Correlation co		et Correlation Factor			
Particaulate Cor	ncentration by High Volume Sampler	_	115.3		
	ncentration by Dust Meter (µg/m³)	(19.11)	58.7		
Measureing time			60.0		
Set Correlation	Factor, SCF	·			
SCF = [ K=Hig	th Volume Sampler / Dust Meter, (µ	ug/m3) ] 2.0			
The Dust Monit Factor (CF) bety	d in according to the instruction manu or was compared with a calibrated Hi ween the Dust Monitor and High Volu pers are weighted by HOKLAS lab	igh Volume Sampler and The result ume Sampler.	was used to gene	rate the Correlation	
Calibrated by Technic	eal Officer (Wong Shing Kwai)	Approved by: Projec	t Manager (Henry	Leung)	

Digital Dust Indicator



29-Nov-22

Date of Calibration

#### **Certificate of Calibration**

Description:

-						
Manufacturer:	Sibata Scient	ific Technology LTD.		Validity of Calib	ration Record	29-Jan-23
Model No.:	LD-5R					
Serial No.:	972778					
Equipment No.:	SA-01-07		Sensitivity _	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensitiv	ity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.:	3864	After Sensitivit	y Adjustment	735 CPM	
		Ca	libration of 1 hr	TSP		
Calibration		Laser Dust Monitor	r		HVS	
Point	N	fass Concentration (μg/	/m3)	Mas	ss concentration (µ	ug/m³)
		X-axis			Y-axis	
1		63.0			133.0	
2		56.0			115.0	
3		45.0			94.0	
Average		54.7			114.0	
Slope , mw = Correlation co	•	0.9965		ept, bw =	-3.1903	_
		Se	t Correlation Fa	ector		
		High Volume Sampler	$(\mu g/m^3)$		114.0	
Particaulate Con	centration by l	Dust Meter (μg/m³)		54.7		
Measureing time	e, (min)				60.0	
Set Correlation l SCF = [ K=Hig		npler / Dust Meter, (μ	g/m3) ]	2.1		
The Dust Monitor Factor (CF) betw	or was compar veen the Dust l	to the instruction manual ded with a calibrated High Monitor and High Volunted by HOKLAS laborated	gh Volume Samp ime Sampler.		was used to gener	rate the Correlation
Calibrated by: Technic		ong Shing Kwai)	_	Approved by: Projec	-lear	Leung)

Digital Dust Indicator



29-Jan-23

Date of Calibration

#### **Certificate of Calibration**

Description:

Manufacturer:	Sibata Scient	tific Technology LTD.		Validity of Calib	ration Record	31-Mar-23
Model No.:	LD-5R		_			
Serial No.:	972778	-				
		-	Consitivity	0.001 mg/m2		
Equipment No.:			Sensitivity	0.001 mg/m3	- 525 CDM	
High Volume Sa	-	A-01-03		vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	735 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	N.	fass Concentration (μg/	m3)	Mas	ss concentration (	$\mu g/m^3$ )
		X-axis			Y-axis	
1		64.0			134.0	
2		57.0			116.0	
3		46.0			95.0	
Average		55.7			115.0	
Slope , mw = Correlation co	2.14 pefficient* =	0.9965		ept, bw =	-4.334(	
Particaulate Con	centration by	High Volume Sampler		uctor	115.0	
	-	Dust Meter (μg/m <sup>3</sup> )	(FB )	55.7		
Measureing time	•	(10)		60.0		
Set Correlation I						
SCF = [ K=Higl	h Volume Sar	mpler / Dust Meter, (μ	g/m3) ]	2.1		
The Dust Monitor Factor (CF) betw	or was compar yeen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ime Sampler.	•	was used to gene	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	-len	y Leung)



#### **Certificate of Calibration**

Description:	Digital Dust Indicator		Date of Calibration 29-Nov-22		29-Nov-22	
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibr	ation Record	29-Jan-23	
Model No.:	LD-5R					
Serial No.:	972779					
Equipment No.:	SA-01-08		Sensitivity	0.001 mg/m3		
High Volume Sa	ımpler No.:	A-01-03	Before Sensit	ivity Adjustment	744 CPM	
Tisch Calibratio	n Orifice No.:	3864	After Sensitiv	ity Adjustment	744 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		<b>Laser Dust Monitor</b>			HVS	
Point	M	lass Concentration (μg/ <b>X-axis</b>	(m3)	Mas	s concentration (  Y-axis	ug/m³)
1		67.0			133.0	
2		56.0			115.0	
3		47.0			94.0	
Average		56.7		114.0		
Slope , mw = Correlation co	1.93 pefficient* =	8 <u>5</u> 0.9948		cept, bw =	4.1495	
		Se	t Correlation I	actor		
Particaulate Con	centration by I	High Volume Sampler (	$(\mu g/m^3)$	114.0		
Particaulate Con	centration by I	Oust Meter (μg/m³)		56.7		
Measureing time	•			60.0		
Set Correlation 1						
SCF = [ K=Hig.	h Volume San	npler / Dust Meter, (μ	g/m3)	2.0		
	U	to the instruction manua			14	
Factor (CF) betw	veen the Dust I	ed with a calibrated Hig Monitor and High Volu ted by HOKLAS labo	me Sampler.	-	was used to gene	rate the Correlation
Factor (CF) betw	veen the Dust I	Monitor and High Volu	me Sampler.	-	1 0	rate the Correlation

Digital Dust Indicator



29-Jan-23

Date of Calibration

#### **Certificate of Calibration**

Description:

Manufacturer:	Sibata Scient	tific Technology LTD.		Validity of Calibr	ration Record	31-Mar-23
Model No.:	LD-5R		_			
Serial No.:	972779	<u>-</u>				
Equipment No.:		-	Sensitivity	0.001 mg/m3		
		- A 01 02	•	0.001 mg/m3	744 CDM	
High Volume Sa	-	A-01-03		vity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	744 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	M	Iass Concentration (μg/	(m3)	Mas	ss concentration (	μg/m <sup>3</sup> )
		X-axis			Y-axis	
1		68.0			135.0	
3		57.0			116.0	
Average		48.0 <b>57.7</b>			95.0 <b>115.3</b>	
Slope , mw = Correlation co	1.99 pefficient* =	0.9963		eept, bw =	0.5748	
Particaulate Con	centration by	High Volume Sampler		actor	115.3	
		Dust Meter (μg/m <sup>3</sup> )	(µg/III )	57.7		
Measureing time	•	(f-8 )		60.0		
Set Correlation I						
SCF = [ K=Hig	h Volume Sar	mpler / Dust Meter, (μ	g/m3) ]	2.0		
The Dust Monitor Factor (CF) betw	or was compar veen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ime Sampler.	•	was used to gene	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	t Manager (Henr	y Leung)



#### **Certificate of Calibration**

Description:	Digital Dust Indicator		Date of Calibration 29-Nov-22		
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Record 29-Ja		29-Jan-23
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensit	ivity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitiv	ity Adjustment	739 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μg/ <b>X-axis</b>	m3)	Mas	s concentration (µ Y-axis	ıg/m³)
1	69.0			133.0	
2	59.0			115.0	
3	49.0		94.0		
Average	59.0		114.0		
Slope , mw = Correlation co	ression of Y on X 		cept, bw =	-1.0500	
	Se	t Correlation I	Factor		
	Particaulate Concentration by High Volume Sampler (µg/m³)				
Particaulate Concentration by Dust Meter (μg/m³)				114.0	
		[μg/m <sup>3</sup> )		114.0 59.0	
Measureing time	e, (min)	[μg/m³)			
Measureing time Set Correlation I	centration by Dust Meter (μg/m³) c, (min) Factor , SCF			59.0	
Measureing time Set Correlation I	e, (min)		1.9	59.0	
Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by Dust Meter (μg/m³) c, (min) Factor , SCF	g/m3) ] al: gh Volume Sam me Sampler.	1.9	59.0 60.0	rate the Correlation
Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by Dust Meter (μg/m³)  c, (min)  Factor, SCF  h Volume Sampler / Dust Meter, (μg/m³)  I in according to the instruction manual or was compared with a calibrated High veen the Dust Monitor and High Volumers are weighted by HOKLAS laboration.	g/m3) ] al: gh Volume Sam me Sampler.	1.9	59.0 60.0	rate the Correlation

Digital Dust Indicator



29-Jan-23

Date of Calibration

#### **Certificate of Calibration**

Description:

Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ration Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	972780					
Equipment No.:	SA-01-09		Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	739 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	N	fass Concentration (μg/	(m3)	Mas	ss concentration (	$\mu g/m^3$ )
		X-axis			Y-axis	
1		70.0			136.0	
2		60.0			117.0	
3 Average		51.0 <b>60.3</b>			97.0 <b>116.7</b>	
Slope , mw = Correlation co	2.04 pefficient* =	0.9990		cept, bw =	-7.0055	<u>;                                    </u>
Particaulate Con	centration by	High Volume Sampler			116.7	
Particaulate Con	centration by	Dust Meter (μg/m³)		60.3		
Measureing time	e, (min)			60.0		
Set Correlation I	Factor, SCF					
SCF = [ K=Hig	h Volume Sar	mpler / Dust Meter, (μ	g/m3) ]	1.9		
The Dust Monitor Factor (CF) betw	or was compar veen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ıme Sampler.	-	t was used to gen	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	Lemot Manager (Henr	Leung)

Digital Dust Indicator



29-Nov-22

Date of Calibration

#### **Certificate of Calibration**

Description:

-						
Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calib	ration Record	29-Jan-23
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10		Sensitivity	0.001 mg/m3	_	
High Volume Sa	impler No.:	A-01-03	Before Sensitiv	rity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivit	y Adjustment	734 CPM	
		Ca	libration of 1 hi	TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	N.	fass Concentration (μg/	m3)	Mas	ss concentration (µ	$\lg/m^3$ )
		X-axis			Y-axis	
1		71.0			133.0	
2		64.0			115.0	
3		52.0			94.0	
Average		62.3			114.0	
Slope , mw = Correlation co		0.9943		ept, bw =	-11.9043	<u>,                                    </u>
		Se	t Correlation Fa	actor		
Particaulate Con	centration by I	High Volume Sampler (	$(\mu g/m^3)$	114.0		
Particaulate Con	centration by l	Dust Meter (μg/m <sup>3</sup> )		62.3		
Measureing time	e, (min)			60.0		
Set Correlation I	Factor, SCF					
SCF = [ K=High	h Volume San	npler / Dust Meter, (µ	g/m3) ]	1.8		
The Dust Monitor Factor (CF) betw	or was compare veen the Dust I	to the instruction manual ed with a calibrated High Monitor and High Volunted by HOKLAS laborated	gh Volume Samp me Sampler.		was used to gener	rate the Correlation
Calibrated by:		ng Shing Kwai)	_	Approved by: Projec	ct Manager (Henry	Leung)



#### **Certificate of Calibration**

Description:	Digital Dust Indicator		Date of Calibration 29-Jan-23		29-Jan-23	
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Record 31-Mar-23		31-Mar-23	
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	orifice No.:	3864	After Sensitivi	ty Adjustment	734 CPM	
		Cal	libration of 1 h	r TSP		
Calibration		<b>Laser Dust Monitor</b>			HVS	
Point	M	ass Concentration (µg/	m3)	Mas	s concentration (µ	ıg/m³)
		X-axis			Y-axis	
2		70.0 63.0			132.0	
3		51.0			94.0	
Average		61.3		113.3		
Slope , mw = Correlation co	1.965 pefficient* =	0.9928		cept, bw =	-7.1191	
Particoulate Con	centration by I	High Volume Sampler (	t Correlation F	actor	113.3	
	-	Oust Meter (µg/m <sup>3</sup> )	μg/III )	61.3		
Measureing time	•	(Fg. III )		60.0		
Set Correlation I						
SCF = [ K=Hig	h Volume San	npler / Dust Meter, (μ	g/m3) ]	1.8		
	· ·	to the instruction manua				
	-	ed with a calibrated Hig Monitor and High Volu		pler and The result	was used to gene	rate the Correlation
` ′		ted by HOKLAS labo	*	Litimed)		
Calibrated by: Technica		ng Shing Kwai)	-	Approved by: Projec	len de Manager (Henry	Leung)





## RECALIBRATION DUE DATE:

January 31, 2023

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: January 31, 2022

Rootsmeter S/N: 438320

**Ta:** 294 **Pa:** 752.6

°K

Operator: Jim Tisch

ım iiscn

mm Hg

Calibration Model #: TE-5025A Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4490	3.2	2.00
2	3	4	1	1.0320	6.4	4.00
3	5	6	1	0.9160	7.9	5.00
4	7	8	1	0.8730	8.8	5.50
5	9	10	1	0.7230	12.7	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9995	0.6898	1.4169	0.9957	0.6872	0.8839		
0.9952	0.9643	2.0037	0.9915	0.9608	1.2500		
0.9932	1.0843	2.2402	0.9895	1.0802	1.3976		
0.9920	1.1363	2.3496	0.9883	1.1321	1.4658		
0.9868	1.3649	2.8337	0.9831	1.3598	1.7678		
	m=	2.09281		m=	1.31048		
<b>QSTD</b>	b=	-0.02426	QA [	b=	-0.01514		
7	r=	0.99993	,	r=	0.99993		

	Calculatio	ns	
Vstd=	Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)		ΔVol((Pa-ΔP)/Pa)
Qstd=	<b>Qstd=</b> Vstd/∆Time		Va/ΔTime
	For subsequent flow ra	te calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

	Standard Conditions			
Tstd:	298.15 °K			
Pstd:	760 mm Hg			
	Key			
ΔH: calibrator manometer reading (in H2O)				
ΔP: rootsmeter manometer reading (mm Hg)				
Ta: actual absolute temperature (°K)				
Pa: actual barometric pressure (mm Hg)				
b: intercept				
m: slope				

#### **RECALIBRATION**

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30

illage of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009



#### **Certificate of Calibration - Wind Monitoring Station**

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

Model No.: <u>Davis7440</u>

Serial No.: MC01010A44

Equipment No.: SA-03-04

Date of Calibration 19-Aug-2022

Next Due Date 19-Feb-2023

#### 1. Performance check of Wind Speed

Wind Sp	peed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.6	-0.1
4.0	4.0	0.0

#### 2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

#### **Test Specification:**

- 1. Performance Wind Speed Test The wind meter was on-site calibrated against the anemometer
- 2. Performance Wind Direction Test The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by:

Wong Shing Kwai

Approved by:

Henry/Leung