

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Ho Fung College (ASR 1)  
**Calibration Date:** 16-May-11  
**Calibration Due Date:** 15-Jul-11  
**Time:** 08:00

Sampler Model:	BM2000HX
Serial No.:	4994
Calibrator Orifice no.:	1785
Slope (m):	2.00506
Intercept (b):	-0.02062
Correction coeff. (r)	0.99998

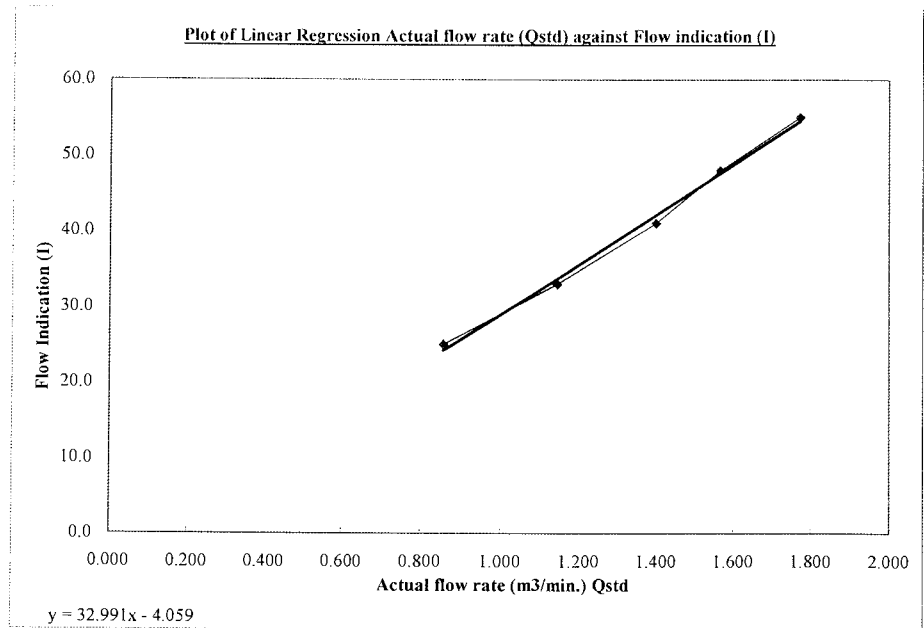
Standard pressure (mmHg) Pstd:	763.9
Standard temp. (K) Tstd:	290.8
Calibration pressure (mmHg) Pa:	759.6
Calibration temp. (K) Ta:	298.5

$$\text{Flow (corrected)} = \sqrt{H} \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}$$

$$Q_{std} = \frac{1}{m} \times \left( \sqrt{H} \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta} - b \right)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	12.6	3.537	1.774	55.0
2	9.8	3.119	1.566	48.0
3	7.8	2.783	1.398	41.0
4	5.2	2.272	1.143	33.0
5	2.9	1.697	0.857	25.0

Correlation Coefficient : 0.9976



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Arthur Chiu  
 ( *Arthur Chiu* )

**Date:** 16 May 2011

**Checked by:** F.C. Tsang  
 ( *F.C. Tsang* )

**Date:** 16 MAY 2011

**High Volume Air Sampler Calibration Worksheet**

Project Title: Design and Construction of Tsuen Wan Drainage Tunnel  
 Monitoring Location: Heng Hoi Chi Hong Ship Temple (ASR 3)  
 Calibration Date: 16-May-11  
 Calibration Due Date: 15-Jul-11  
 Time: 08:15

Sampler Model:	BM2000HX
Serial No.:	5875
Calibrator Orifice no.:	1785
Slope (m):	2.00506
Intercept (b):	-0.02062
Correction coeff. (r)	0.99998

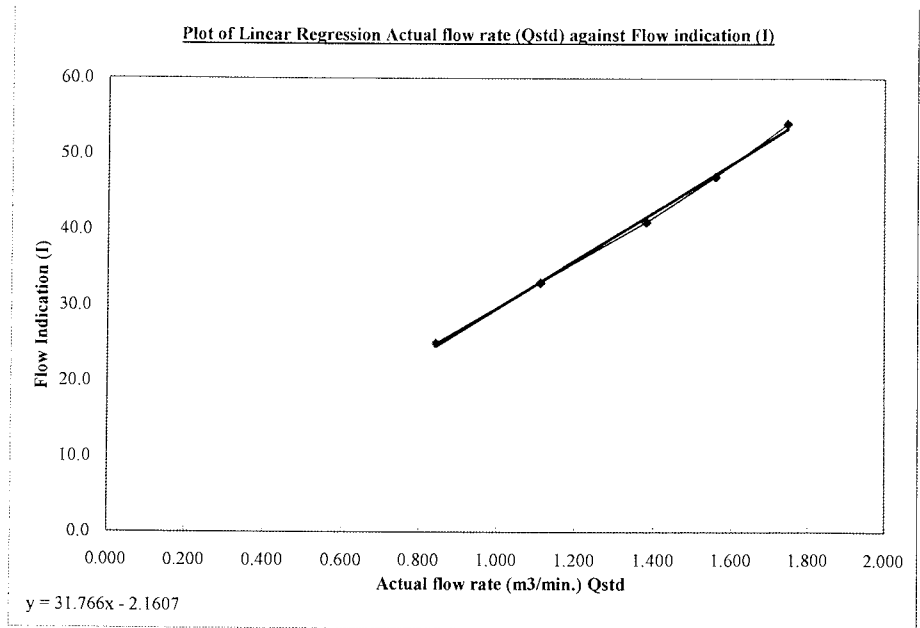
Standard pressure (mmHg) Pstd:	763.9
Standard temp. (K) Tstd:	290.8
Calibration pressure (mmHg) Pa:	759.6
Calibration temp. (K) Ta:	298.5

$$Flow(\text{corrected}) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	12.2	3.480	1.746	54.0
2	9.7	3.103	1.558	47.0
3	7.6	2.747	1.380	41.0
4	4.9	2.206	1.110	33.0
5	2.8	1.667	0.842	25.0

Correlation Coefficient : 0.9988



Remark  
 1HPa = 0.750062 mmHg

Calibrated by: Arthur Chiu  
 ( *Arthur Chiu* )

Date: 16 May 2011

Checked by: F.C. Tsang  
 ( *F.C. Tsang* )

Date: 16 MAY 2011

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Long Beach Gardan (ASR 8)  
**Calibration Date:** 16-May-11  
**Calibration Due Date:** 15-Jul-11  
**Time:** 08:30

Sampler Model:	TE5005X
Serial No.:	1059
Calibrator Orifice no.:	1785
Slope (m):	2.00506
Intercept (b):	-0.02062
Correction coeff. (r)	0.99998

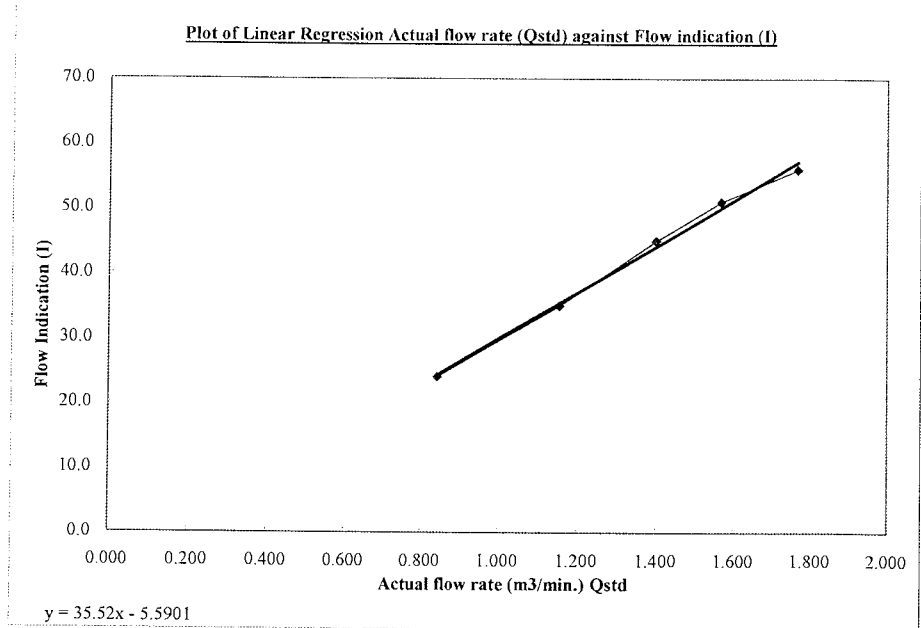
Standard pressure (mmHg) Pstd:	763.9
Standard temp. (K) Tstd:	290.8
Calibration pressure (mmHg) Pa:	759.6
Calibration temp. (K) Ta:	298.5

$$Flow\ (corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Qstd = \frac{1}{m} \times \left( \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b \right)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	12.5	3.523	1.767	56.0
2	9.8	3.119	1.566	51.0
3	7.8	2.783	1.398	45.0
4	5.3	2.294	1.154	35.0
5	2.8	1.667	0.842	24.0

Correlation Coefficient : 0.9974



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Arthur Chiu  
 ( *Arthur Chiu* )

**Date:** 16 May 2011

**Checked by:** F.C. Tsang  
 ( *F.C. Tsang* )

**Date:** 16 MAY 2011

**High Volume Air Sampler Calibration Worksheet**

**Project Title:** Design and Construction of Tsuen Wan Drainage Tunnel  
**Monitoring Location:** Greenview Terrace (ASR 9)  
**Calibration Date:** 16-May-11  
**Calibration Due Date:** 15-Jul-11  
**Time:** 08:45

Sampler Model:	TE5005X
Serial No.:	1713
Calibrator Orifice no.:	1785
Slope (m):	2.00506
Intercept (b):	-0.02062
Correction coeff. (r)	0.99998

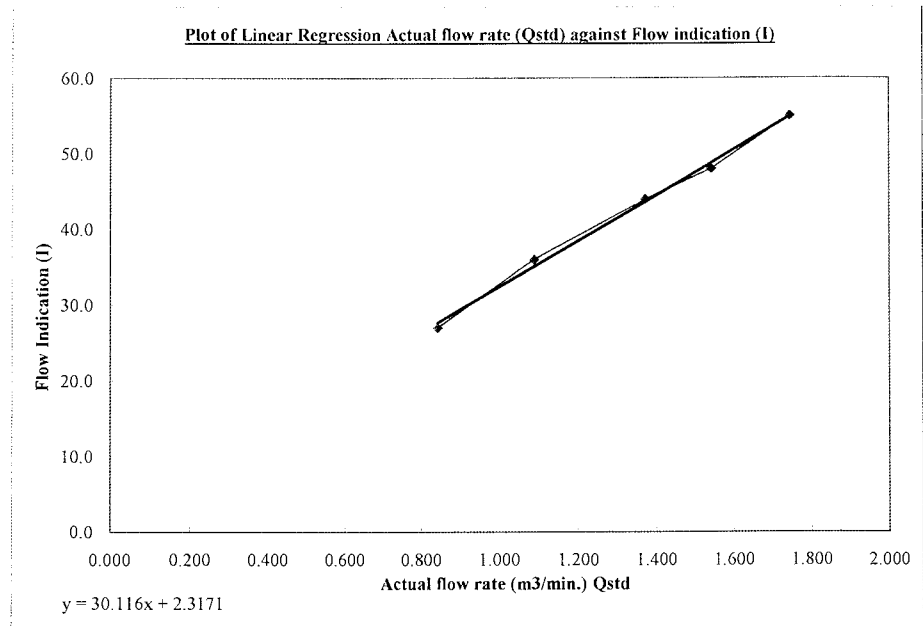
Standard pressure (mmHg) Pstd:	763.9
Standard temp. (K) Tstd:	290.8
Calibration pressure (mmHg) Pa:	759.6
Calibration temp. (K) Ta:	298.5

$$Flow (corrected) = \sqrt{H} \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}$$

$$Q_{std} = \frac{1}{m} \times \left( \sqrt{H} \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta} - b \right)$$

Sample no.	Pressure Drop (H), inch	Flow (corrected), m <sup>3</sup> /min	Actual flow rate (Qstd), m <sup>3</sup> /min	Flow indication (I), arbitrary
1	12.2	3.480	1.746	55.0
2	9.5	3.071	1.542	48.0
3	7.5	2.729	1.371	44.0
4	4.7	2.160	1.088	36.0
5	2.8	1.667	0.842	27.0

Correlation Coefficient : 0.9978



Remark  
 1HPa = 0.750062 mmHg

**Calibrated by:** Arthur Chiu  
 ( *Arthur Chiu* )

**Date:** 16 May 2011

**Checked by:** F.C. Tsang  
 ( *F.C. Tsang* )

**Date:** 16 MAY 2011



TISCH ENVIRONMENTAL, INC.  
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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Apr 25, 2011 Rootsometer S/N 0438320 Ta (K) - 294  
 Operator Tisch Orifice I.D. - 1785 Pa (mm) - 746.76

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8780	7.9	5.00
4	NA	NA	1.00	0.8350	8.9	5.50
5	NA	NA	1.00	0.6900	12.9	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9917	0.7150	1.4113	0.9957	0.7179	0.8874
0.9873	1.0044	1.9959	0.9913	1.0085	1.2549
0.9853	1.1222	2.2315	0.9893	1.1268	1.4030
0.9841	1.1785	2.3405	0.9881	1.1833	1.4715
0.9787	1.4184	2.8227	0.9827	1.4242	1.7747
Qstd slope (m) = 2.00506			Qa slope (m) = 1.25553		
intercept (b) = -0.02062			intercept (b) = -0.01297		
coefficient (r) = 0.99998			coefficient (r) = 0.99998		
y axis = $\text{SQRT}[\text{H}_2\text{O}(\text{Pa}/760)(298/\text{Ta})]$			y axis = $\text{SQRT}[\text{H}_2\text{O}(\text{Ta}/\text{Pa})]$		

CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)  
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]  
 Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{[\text{SQRT}(\text{H}_2\text{O}(\text{Pa}/760)(298/\text{Ta}))] - b\}$   
 Qa =  $1/m\{[\text{SQRT} \text{H}_2\text{O}(\text{Ta}/\text{Pa})] - b\}$

Certificate No. : C113270

## Certificate of Calibration

*This is to certify that the equipment*

*Description : Sound Level Meter*

*Manufacturer : Rion*

*Model No. : NL-31*

*Serial No. : 00410224*

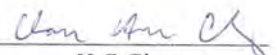
*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C113270.*

*The equipment is supplied by*

*Co. Name : Envirotech Services Co.*

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong*

*Date of Issue : 10 June 2011*

Certified by :   
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C106297

## *Certificate of Calibration*

*This is to certify that the equipment*

*Description : Integrating Sound Level Meter*

*Manufacturer : Bruel & Kjaer*

*Model No. : 2238*

*Serial No. : 2448529*

*has been calibrated for the specific items and ranges.  
The results are shown in the Calibration Report No. C106297.*

*The equipment is supplied by*

*Co. Name : Hyder Consulting Limited*

*Address : 47/F., Hopewell Centre, 183 Queen's Road East,  
Wanchai, Hong Kong*

*Date of Issue : 16 November 2010*

*Certified by :*

  
K.C. Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report.  
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong  
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



# Calibration Certificate

Certificate No. **07436**

Page 1 of 3 Pages

**Customer :** Hyder Consulting Limited

**Address :** 47/F., Hopewell Centre, 183 Queens Road East, Wanchai, Hong Kong

**Order No. :** Q02884

**Date of receipt :** 28-Dec-10

## Item Tested

**Description :** Sound Level Meter

**Manufacturer :** B&K

**Model :** 2238

**Serial No. :** 2562782

## Test Conditions

**Date of Test :** 29-Dec-10

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

## Test Results

All results were within the IEC 651 Type 1 & IEC 804 Type 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

**Calibrated by :** 

P. F. Wong

**Approved by :** 

Dorothy Cheuk

**Date:** 30-Dec-10

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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# Calibration Certificate

Certificate No. **07436**

Page 2 of 3 Pages

Results :

## 1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Bandwith	Center Freq.		
20 ~ 100	A	BB/F	--	94.0	94.1
	A	BB/S	--		94.1
	C	BB/F	--		94.0
40 ~ 120	A	BB/F	--	94.0	94.1
	A	BB/F	--	114.0	113.9

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.1$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB

## 3. Linearity

### 3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.3	+0.2	$\pm 0.7$ dB
130	104.0	104.3	+0.2	
120	94.0	94.1 (Ref.)	--	
110	84.0	83.9	-0.2	
100	74.0	73.9	-0.2	
90	64.0	63.9	-0.2	
80	54.0	54.2	+0.1	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

Certificate No. 07436

Page 3 of 3 Pages

## 3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	-0.2	± 0.4 dB
	94.0	94.1 (Ref.)	--	
	95.0	95.1	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB

## 4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.0	- 39.4 dB, ± 1.5 dB
63 Hz	-26.7	- 26.2 dB, ± 1.5 dB
125 Hz	-16.6	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.5	+ 1.2 dB, ± 1 dB
4 kHz	+1.3	+ 1.0 dB, ± 1 dB
8 kHz	-0.7	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.3	- 6.6 dB, + 3 dB ~ -∞

Uncertainty : ± 0.1 dB

## 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 <sup>2</sup>	40.0	40.0	
1/10 <sup>3</sup>	40.0	40.5	± 1.0 dB
1/10 <sup>4</sup>	40.0	41.0	

Uncertainty : ± 0.1 dB

Remarks : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric pressure : 1 012 hPa.

----- END -----



# Calibration Certificate

Certificate No. **07437**

Page 1 of 2 Pages

**Customer :** Hyder Consulting Limited

**Address :** 47/F., Hopewell Centre, 183 Queens Road East, Wanchai, Hong Kong

**Order No. :** Q02884

**Date of receipt :** 28-Dec-10

## Item Tested

**Description :** Sound Level Calibrator

**Manufacturer :** B&K

**Model :** Type 4231

**Serial No. :** 2699361

## Test Conditions

**Date of Test :** 29-Dec-10

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

## Test Results

All results were within the IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

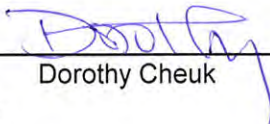
<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

**Calibrated by :**   
P. F. Wong

**Approved by :**   
Dorothy Cheuk

**Date:** 30-Dec-10

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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# Calibration Certificate

Certificate No. 07437

Page 2 of 2 Pages

Results :

## 1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.02	± 0.3 dB
114	114.10	

Uncertainty : ± 0.1 dB

## 2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.000 kHz	± 2 %

Uncertainty : ± 3.6 x 10<sup>-6</sup>

## 3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty : ± 0.01 dB

## 4. Total Harmonic Distortion : < 0.5 %

IEC 942 Class 1 Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The above measured values are the mean of 3 measurement.

3. The uncertainty claimed is for a confidence probability of not less than 95%.

4. Atmospheric Pressure : 1012 hPa.

----- END -----

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**Work Order:** HK1111927  
**Date of Issue:** 27/05/2011  
**Client:** HYDER CONSULTING LTD



**Description:** Hand - Held pH Meter  
**Brand Name:** DKK-TOA  
**Model No.:** HM20P  
**Serial No.:** 641485  
**Equipment No.:** --  
**Date of Calibration:** 26 May, 2011

**Date of next Calibration:** 26 August, 2011

**Parameters:**

**pH Value**

**Method Ref:** APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.00	3.87	-0.13
7.00	7.10	0.10
10.00	9.93	-0.07
Tolerance Limit (±unit)		0.20

**Temperature**

**Method Ref:** Section 6 of International Accreditation New Zealand Technical

**Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Reading of Ref. thermometer (°C )	Displayed Reading (°C )	Tolerance (°C )
12.0	11.6	-0.4
26.0	25.0	-1.0
41.0	40.1	-0.9
Tolerance Limit (°C)		2.0

Mr. Fung Lim Chee, Richard  
 General Manager -  
 Greater China & Hong Kong

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1106888  
Date of Issue: 26/03/2011  
Client: HYDER CONSULTING LIMITED



Description: DO Meter  
Brand Name: YSI 55  
Model No.: 55/12  
Serial No.: 95J38390  
Equipment No.: NA  
Date of Calibration: 24 March, 2011

Date of next Calibration: 24 June, 2011

## Parameters:

### Temperature

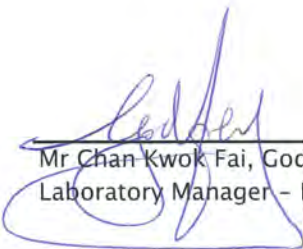
Method Ref: Section 6 of International Accreditation New Zealand Technical  
Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.5	12.4	-0.1
20.5	20.1	-0.4
37.0	36.7	-0.3
Tolerance Limit (°C)		2.0

### Dissolved Oxygen

Method Ref: ALPHA 21st Ed. 4500O: OG

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.83	3.75	-0.08
5.97	5.90	-0.07
8.75	8.70	-0.05
Tolerance Limit (±mg/L)		0.2

  
Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**Work Order:** HK1113227  
**Date of Issue:** 14/06/2011  
**Client:** HYDER CONSULTING LTD



**Description:** DO Meter  
**Brand Name:** YSI  
**Model No.:** 55/12  
**Serial No.:** 95J38390  
**Equipment No.:** --  
**Date of Calibration:** 14 June, 2011

**Date of next Calibration:** 14 September, 2011

**Parameters:**

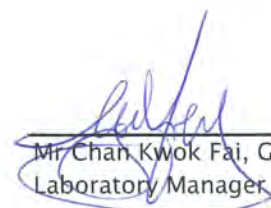
**Dissolved Oxygen**      **Method Ref: APHA (21st edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.72	1.91	0.19
4.39	4.34	-0.05
5.52	5.32	-0.20
7.89	7.89	0.00
Tolerance Limit ( $\pm$ mg/L)		0.20

**Temperature**

**Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Reading of Ref. thermometer ( $^{\circ}$ C )	Displayed Reading ( $^{\circ}$ C )	Tolerance ( $^{\circ}$ C )
14.0	13.3	-0.7
24.0	23.3	-0.7
34.0	33.3	-0.7
Tolerance Limit ( $^{\circ}$ C)		2.0

  
 \_\_\_\_\_  
 Mr. Chan Kwok Fai, Godfrey  
 Laboratory Manager - Hong Kong

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1106728  
Date of Issue: 22/03/2011  
Client: HYDER CONSULTING LIMITED



Description: Turbidimeter  
Brand Name: Eutech Instruments  
Model No.: TN-100  
Serial No.: 215619  
Equipment No.: N/A  
Date of Calibration: 22 March, 2011

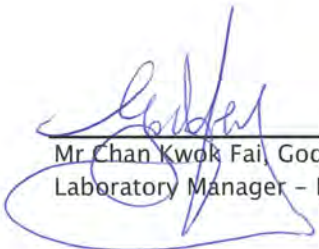
Date of next Calibration: 22 June, 2011

## Parameters:

### Turbidity

Method Ref: ALPHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.19	--
4	3.99	-0.2%
40	37.8	-5.5%
80	74.2	-7.3%
400	419	4.8%
800	744	-7.0%
Tolerance Limit ( $\pm$ %)		10.0

  
Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1113457  
Date of Issue: 17/06/2011  
Client: HYDER CONSULTING LTD



Description: Turbidity Meter  
Brand Name: Eutech Instruments  
Model No.: TN-100  
Serial No.: 215619  
Equipment No.: --  
Date of Calibration: 17 June, 2011

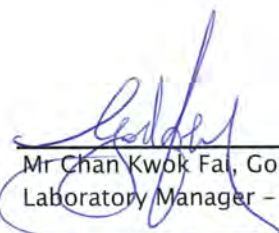
Date of next Calibration: 17 September, 2011

## Parameters:

### Turbidity

Method Ref: ALPHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.00	0.16	--
4.00	4.28	7.0
40.0	36.5	-8.8
80.0	73.4	-8.2
400	419	4.8
800	736	-8.0
	Tolerance Limit ( $\pm\%$ )	10.0

  
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