Noise

Calibration Certificates for Noise



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C230386 證書編號

ITEM TESTED / 送檢項	[目 (Job No. / 序引編號: IC23-0164)	Date of Receipt / 收件日期: 27 January 2023
Description / 儀器名稱	: Precision Acoustic Calibrator	
Manufacturer / 製造商	: LARSON DAVIS	
Model No. / 型號	: CAL200	
Serial No. / 編號	: 10227	
. Supplied By / 委託者	: Envirotech Services Co.	
	Room 712, 7/F, My Loft, 9 Hoi Win	g Road, Tuen Mun,
	New Territories, Hong Kong	
TEST CONDITIONS /	111 <u>~~</u> <i>bbr 111</i> -	
TEST CONDITIONS / 🕽		
Temperature / 溫度 :	$(23 \pm 2)^{\circ}C$	Relative Humidity / 相對濕度 : (50±25)%
Line Voltage / 電壓 :		

TEST SPECIFICATIONS / 測試規範

Calibration check

核證

DATE OF TEST / 測試日期 : 28 January 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: _	H T Wong Assistant Engineer	
Certified By	:	Ð	

K C Lee Engineer Date of Issue 簽發日期 :

30 January 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C230386 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C223647
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Uncertainty of Measured Value (dB)		
94 dB, 1 kHz	93.9	± 0.2		
114 dB, 1 kHz	113.9			

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Uncertainty of Measured Value
(kHz)	(kHz)	(Hz)
1	1.000	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this 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 environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226679 證書編號

ITEM TESTED / 送檢功	百頁	(Job No. / 序引編號: IC22-2238)	Date of Receipt / 收件日期: 1 November 2022
Description / 儀器名稱	:	Sound Level Meter	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00175561	
. Supplied By / 委託者	:	Envirotech Services Co.	
		Room 712, 7/F, My Loft, 9 Hoi Wing F	Road, Tuen Mun,
		New Territories, Hong Kong	
TEST CONDITIONS /	2011	a ber /it.	

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

. TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 November 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 C K Lo **Project Engineer** Certified By Date of Issue : 簽發日期 核證

K C Lee Engineer 14 November 2022

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226679 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting			Applie	d Value	UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	93.3	± 1.1

6.1.2 Linearity

	UUT Setting				Applied Value		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 130	L _A	A	Fast	94.00	1	93.3 (Ref.)	
-				104.00	Γ	103.4	
				114.00		113.4	

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting			Applie	d Value	UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	93.3	Ref.
			Slow			93.3	\pm 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C226679 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT Setting			Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	67.0	-26.2 ± 1.5
					125 Hz	77.1	-16.1 ± 1.5
					250 Hz	84.6	-8.6 ± 1.4
					500 Hz	90.0	-3.2 ± 1.4
					1 kHz	93.3	Ref.
					2 kHz	94.5	$+1.2 \pm 1.6$
					4 kHz	94.3	$+1.0 \pm 1.6$
					8 kHz	92.3	-1.1 (+2.1 ; -3.1)
					16 kHz	83.3	-6.6 (+3.5 ; -17.0)

6.3.2

C-Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	92.4	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.1	-0.2 ± 1.5
					250 Hz	93.3	0.0 ± 1.4
					500 Hz	93.3	0.0 ± 1.4
					1 kHz	93.3	Ref.
					2 kHz	93.1	-0.2 ± 1.6
					4 kHz	92.5	-0.8 ± 1.6
					8 kHz	90.3	-3.0 (+2.1 ; -3.1)
					16 kHz	83.4	-8.5 (+3.5 ; -17.0)

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226679 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16651

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz	$:\pm 0.35 \text{ dB}$
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	16 kHz	: ± 0.70 dB
	104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

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測試

核證

Certified By

輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C222710 證書編號

ITEM TESTED / 送檢項	目 (Job No. / 序引編號:IC22-0821)	Date of Receipt / 收件日期: 3 May 202
Description / 儀器名稱 :	Sound Level Meter	
Manufacturer / 製造商 :		
Model No. / 型號 :	NL-52	
Serial No. / 編號 :	00542913	
Supplied By / 委託者 :	Envirotech Services Co.	
	Room 712, 7/F, My Loft, 9 Hoi Wing New Territories, Hong Kong	Road, Tuen Mun,
	New Territories, Holig Kolig	
TEST CONDITIONS / 淇	試條件	
Temperature / 溫度 :	(23 ± 2)°C	Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 :		
DATE OF TEST / 測試日	期 : 20 May 2022	
TEST RESULTS / 測試約	课	
	ticular unit-under-test only.	
	nanufacturer's specification.	
The results are detailed in t	ne subsequent page(s).	
	r calibration are traceable to National Star	
	Hong Kong Special Administrative Regio	n Standard & Calibration Laboratory
 Agilent Technologies / K Fluke Everett Service Ce 		
- Fluke Everen Service Ce	inei, OSA	
Tested By :	(VI)	

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

Date of Issue

簽發日期

:

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

:

C K Lo Project Engineer

> KC Lee Engineer

Sun Creation Engineering Limited Calibration & Testing Laboratory c/o 4F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號四樓 Tel 電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

24 May 2022



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222710 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting		Applied Value		UUT	IEC 61672		
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	LA	A	Fast	94.00	1	93.3	± 1.1

6.1.2 Linearity

	UU'	T Setting		Applied Value		UUT	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 130	L _A	A	Fast	94.00	1	93.3 (Ref.)	
				104.00		103.3	
				114.00		113.3	

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting		Applied Value		UUT	IEC 61672		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	93.3	Ref.
			Slow			93.3	± 0.3

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C222710 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672
Range	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
(dB) 30 - 130	L _A	A	Fast	94.00	63 Hz	67.1	-26.2 ± 1.5
50 - 150		1	I use	91.00	125 Hz	77.1	-16.1 ± 1.5
					250 Hz	84.6	-8.6 ± 1.4
					500 Hz	90.1	-3.2 ± 1.4
					1 kHz	93.3	Ref.
					2 kHz	94.5	$+1.2 \pm 1.6$
					4 kHz	94.3	$+1.0 \pm 1.6$
					8 kHz	92.3	-1.1 (+2.1 ; -3.1)
					16 kHz	85.4	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

		Setting		Appli	ed Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	92.5	-0.8 ± 1.5
					125 Hz	93.1	-0.2 ± 1.5
					250 Hz	93.3	0.0 ± 1.4
	-				500 Hz	93.3	0.0 ± 1.4
					1 kHz	93.3	Ref.
					2 kHz	93.1	-0.2 ± 1.6
					4 kHz	92.5	-0.8 ± 1.6
					8 kHz	90.4	-3.0 (+2.1 ; -3.1)
					16 kHz	83.4	-8.5 (+3.5 ; -17.0)

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C222710 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 06492

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB :	63 Hz - 125 Hz	: ± 0.35 dB
		250 Hz - 500 Hz	
		1 kHz	: ± 0.20 dB
		2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
		8 kHz	: ± 0.45 dB
		16 kHz	: ± 0.70 dB
	104 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB :	1 kHz	$\pm 0.10 \text{ dB} (\text{Ref. 94 dB})$

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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Monitoring Schedule for Noise

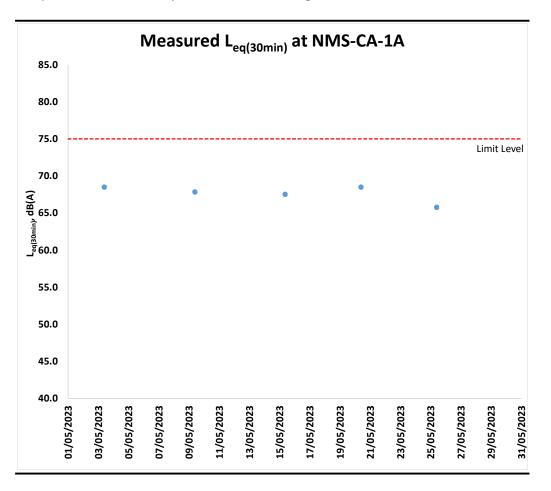
Tung Chung New Town Extension (East) Noise Monitoring Schedule (May 2023)

			intering concatin			
Sunday		Tuesday		Thursday	Friday	Saturday
	1-May	2-May	3-May	4-May	5-May	6-May
			Noise Monitoring			
					10.11	
7-Mav	8-May	9-May	10-May	11-May	12-May	13-May
		Noise Monitoring				
		Noise Monitoring				
14-May	15-May	16-May	17-May	18-May	19-May	20-May
	Noise Monitoring					Noise Monitoring
	_					_
21-May	22-May	23-May	24-May	25-May	26-May	27-May
				Noice Menitering		
				Noise Monitoring		
28-May	29-May	30-May	31-May			
Eo may	20 May		or may			
			Noise Monitoring			
			5			

Monitoring Results for Noise

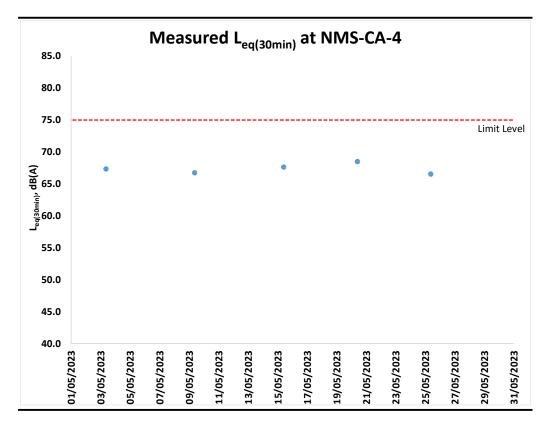
Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}
3/5/2023 9:39	66.9	70.1	62.9	
3/5/2023 9:44	66.5	68.6	62.3	
3/5/2023 9:49	69.0	71.4	63.1	68.5
3/5/2023 9:54	69.0	71.5	62.6	00.0
3/5/2023 9:59	69.6	72.0	63.9	
3/5/2023 10:04	69.0	72.4	61.0	
9/5/2023 9:37	68.4	71.3	63.5	
9/5/2023 9:42	69.8	72.7	62.9	
9/5/2023 9:47	66.7	69.3	63.2	67.8
9/5/2023 9:52	67.8	70.5	61.9	07.0
9/5/2023 9:57	67.5	70.5	60.3	
9/5/2023 10:02	65.7	68.7	60.7	
15/5/2023 9:05	66.6	69.2	62.1	
15/5/2023 9:10	67.9	71.2	61.7	-
15/5/2023 9:15	67.6	70.3	61.8	67.5
15/5/2023 9:20	67.6	70.2	60.6	07.5
15/5/2023 9:25	66.7	69.7	61.4	
15/5/2023 9:30	68.4	69.3	60.7	
20/5/2023 9:47	67.4	70.5	61.7	
20/5/2023 9:52	65.0	68.0	60.1	
20/5/2023 9:57	69.6	72.9	61.6	68.5
20/5/2023 10:02	70.3	73.5	63.9	00.5
20/5/2023 10:07	69.0	72.9	62.4	-
20/5/2023 10:12	67.7	71.2	61.3	
25/5/2023 9:45	64.7	67.2	60,2	
25/5/2023 9:50	67.0	70.2	61.2	
25/5/2023 9:55	65.4	68.6	60.0	65.8
25/5/2023 10:00	66.6	69.9	61.5	05.0
25/5/2023 10:05	65.4	67.3	59.9	
25/5/2023 10:10	65.0	67.9	60.4	
31/5/2023 9:14	65.8	68.2	62.1	
31/5/2023 9:19	69.3	72.5	63.1	
31/5/2023 9:24	67.8	69.8	62.7	67.6
31/5/2023 9:29	68.5	70.7	64.0	01.0
31/5/2023 9:34	66.4	68.6	62.6	
31/5/2023 9:39	66.7	68.7	61.5	

Table F3.1Data for Noise Monitoring at Station NMS-CA-1A during Normal Working
Hours (0700-1900 hours)



Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}		
3/5/2023 9:00	67.3	69.6	63.9			
3/5/2023 9:05	67.6	69.9	64.1	_		
3/5/2023 9:10	68.2	71.2	63.2	67.3		
3/5/2023 9:15	64.6	67.2	61.2	67.3		
3/5/2023 9:20	68.3	70.4	65.1			
3/5/2023 9:25	67.0	69.5	63.2			
9/5/2023 9:02	64.7	67.2	61.5			
9/5/2023 9:07	65.2	67.1	62.3	-		
9/5/2023 9:12	67.2	69.2	65.0	66.7		
9/5/2023 9:17	66.3	68.7	63.3	60.7		
9/5/2023 9:22	67.2	69.9	64.2	1		
9/5/2023 9:27	68.6	70.3	65.1	1		
15/5/2023 9:51	67.7	70.2	63.9			
15/5/2023 9:56	68.1	70.3	64.7	-		
15/5/2023 10:01	68.1	71.2	62.6	67.6		
15/5/2023 10:06	68.0	71.0	63.7			
15/5/2023 10:11	67.0	70.1	63.3			
15/5/2023 10:16	66.6	68.7	64.2	1		
20/5/2023 9:47	67.4	70.5	61.7			
20/5/2023 9:52	65.0	68.0	60.1			
20/5/2023 9:57	69.6	72.9	61.6	00 5		
20/5/2023 10:02	70.3	73.5	63.9	68.5		
20/5/2023 10:07	69.0	72.9	62.4			
20/5/2023 10:12	67.7	71.2	61.3			
25/5/2023 9:03	65.6	67.4	63.9			
25/5/2023 9:08	66.6	68.4	64.0	1		
25/5/2023 9:13	66.6	68.7	63.9	005		
25/5/2023 9:18	68.5	70.4	66.0	66.5		
25/5/2023 9:23	65.7	67.4	63.9	1		
25/5/2023 9:28	65.4	66.7	64.2	1		
31/5/2023 10:00	68.8	70.6	64.6	T		
31/5/2023 10:05	68.3	70.4	63.5	1		
31/5/2023 10:10	67.5	69.8	64.2	-		
31/5/2023 10:15	66.1	68.2	63.9	67.4		
31/5/2023 10:20	67.2	68.9	64.2	-		
31/5/2023 10:25	65.5	66.9	63.6			

Table F3.2Data for Noise Monitoring at Station NMS-CA-4 during Normal Working
Hours (0700-1900 hours)



Event and Action Plan for Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; 	1. Review the analysed results submitted by the ET;	1. Confirm receipt of notification of failure in writing;	1. Submit noise mitigation proposals to IEC and ER;
	 Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	2. Implement noise mitigation proposals.
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Annex F4 Event and Action Plan for Construction Noise