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Our Ref. : TEEM/TM334/17/001

Date: 9 January 2017

By Hand

#### **Environmental Protection Department**

Environmental Assessment Division Metro Assessment Group Kowloon Section (2) 27/F Southorn Centre 130 Hennessy Road Wan Chai Hong Kong

Attn: Ms. Kwok Wing Chi, Winnie

Dear Madam,

Contract No. SS D505
Environmental Permit No. EP-454/2013
Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle
Depot at Yen Ming Road, West Kowloon Reclamation Area
Submission of Environmental Impact Monitoring Report

We are writing, on behalf of Environmental Permit Holder, Food and Environmental Hygiene Department, to provide four hard copies and one electronic copy of Environmental Impact Monitoring report for your record in accordance with Condition 3.3 of EP-454/2013.

Should you have any questions, please do not hesitate to contact the undersigned at (852) 3610 8777 or our Mr. Jason Lau at (852) 3610 8713. Thank you.

Yours faithfully,

For and on behalf of

Telemax Environmental and Energy Management Limited

Ir Eagle MO Managing Director

EM/FT/JL/RX/DJL/WW

Encl.

cc. ArchSD – Mr. Sing-hin SAT, Saadullah / Mr. WAN Koon Piu, Dick (by hand)

FEHD – Ms. May NG (by hand)

PTA – Ms. Clara PANG / Mr. Jess YEUNG (by email)

AEC - Ms. Grace KWOK / Mr. HO Tin Kit (by email)

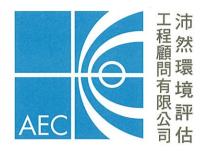
CRBC - Mr. Vincent CHUNG / Mr. FU Kwok Kwan (by email)



# Allied Environmental Consultants Limited

Acousticians & Environmental Engineers

19/F., Kwan Chart Tower, 6 Tonnochy Road, Wan Chai, Hong Kong Tel.: (852) 2815 7028 Fax: (852) 2815 5399 Email: info@aechk.com



Our Ref: 1330/17-0001

9 January 2017

By Email

Food and Environmental Hygiene Department Planning & Development Section Room 101,

Room 101, 1/F, New Wan Chai Market 258 Queen's Road East, Wan Chai, Hong Kong

Attn: Ms. Lorraine Lo

Dear Madam,

Contract No. SS D505
Environmental Permit No. EP-454/2013
Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle
Depot at Yen Ming Road, West Kowloon Reclamation Area
Independent Environmental Checker for Construction Phase
Condition 3.4 – Submission of Monthly EM&A Report for December 2016 (Issue 2)

Further to the receipt from Environmental Team (ET) of the captioned Monthly EM&A Report on 5<sup>th</sup> and 6<sup>th</sup> January 2017 via email, pursuant to Condition 3.4 of Environmental Permit, I hereby verify the captioned report (Issue 2).

Yours faithfully, For ALLIED ENVIRONMENTAL CONSULTANTS LIMITED



Grace Kwok Independent Environmental Checker GK/cwh

C.C.

**FEHD** 

Ms. May NG, ASO(P)4/ Mr. Vincent TAM, CTSO(Ops)2

Email

ArchSD

Mr. Shing-hin SAT, Saadullah, SPM335 / Mr. WAN Koon Piu,

Email

Dick, PM342

PTA

Ms. Clara PANG / Mr. Jess YEUNG

Email Email

**Email** 

TEEM (ET Leader)

Mr. Jason LAU

CRBC (Main Contractor) Mr. Vincent CHEUNG, Project Manager / Mr. KK FU, Site Agent

Recycled Paper

# FEHD Sai Yee Street Environmental Hygiene Officescum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area

## **Environmental Monitoring and Audit Report**

Prepared by: Telemax Environmental and Energy Management Limited

Prepared by: Dextex Lee Rea Come Sura Come Sur

INDEPENDENT ENVIRONMENTAL CHECKER

Date

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Issue	Date	Prepared by	Checked by	Approved by	Remark
		Dexter Lee			
		(Assistant	Jason Lau	Eagle Mo	
1	5 <sup>th</sup> January 2017	Consultant) /	(Chief	(Managing	
		Rena Xu	Consultant)	Director)	
		(Consultant)			
		Dexter Lee			
		(Assistant	Jason Lau	Eagle Mo	Incorporated
2	6 <sup>th</sup> January 2017	Consultant) /	(Chief	(Managing	with AEC's
		Rena Xu	Consultant)	Director)	comment
		(Consultant)			

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## 1.0 Executive Summary

1.1 In December 2015, Telemax Environmental and Energy Management Limited (TEEM) was appointed to conduct an environmental monitoring and audit (EM&A) program for the proposed reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area (FEHD). The site clearance and tree felling works were undertaken during the period from 10<sup>th</sup> December 2015 to 7<sup>th</sup> February 2016. The construction works were commenced on 29<sup>th</sup> February 2016 and all EM&A works were undertaken in accordance with the EM&A Manual and the requirements under the environmental permit EP-454/2013. This report is the tenth monthly EM&A report, which detailed the environmental monitoring and audit results recorded during the period from 1<sup>st</sup> December 2016 to 31<sup>st</sup> December 2016.

### **Reporting Change**

1.2 There was no reporting change required in the reporting month.

#### **Record of Complaints**

1.3 No environmental complaint was recorded in the reporting month.

#### Record of Notification of Summons and Successful Prosecution

1.4 No notification of summons and successful prosecution was received in the reporting month.

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#### **Future Key Issues**

- 1.5 Key issues to be considered in the coming three months included:
  - Properly store and label oils and chemicals on site;
  - Chemical, chemical waste and waste management;
  - Sorting, recycling, storage and disposal of general refuse and construction waste;
  - Properly maintain all drainage facilities and wheel washing facilities on site;
  - Generation of dust from construction works;
  - Noise impact from operation equipment and machinery on site;
  - Generation of site surface runoffs and wastewater from activities on site; and
  - Tree protective measures for all retained trees should be well maintained.

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#### **Project Information** 2.0

#### **Background**

- 2.1 The project proponent is the reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area (FEHD) and the Works Agent is the Architectural Services Department (ArchSD).
- 2.2 The proposed office-cum-vehicle depot building will be a five-story building comprising various facilities for vehicle washing and repair operation, parking of vehicles as well as offices. It will occupy a site area of about 8,278 m<sup>2</sup>.
- 2.3 The FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot is categorized as a designated project under the Environmental Impact Assessment Ordinance (EIAO) and therefore a detailed Environmental Impact Assessment (EIA-216/2013) has been conducted in year 2013 and an Environmental Permit number EP-454/2013 was issued by Environmental Protection Department on November 2013.
- 2.4 The subject site is located at Yen Ming Road, West Kowloon Reclamation Area given in Appendix H. The subject site is bounded to the north by Nam Cheong Station, to the east by CLP Tak Kok Tsui Substation, to the south by Yuen Fat Building, and to the west by Cheung Sha Wan Wholesales Fish and Food Markets. Sir Ellis Kadoorie Secondary School (West Kowloon) and Fu Cheong Estate Fu Yuen House, being the nearest educational and residential establishment, are located at around 100m and 270m from the site boundary respectively.
- 2.5 Key personnel and contact particulars are summarized in *Table 1*.

#### Table 1 Contact Details of Key Personnel

Role	Department / Company	Names	Contact Number
Project Proponent	Food and Environmental Hygiene Department	Ms. Lorraine Lo	3141 1227
Works Agent	Architectural Services Department	Mr. Sing-hin Sat	2867 3843
Architect's representative	P&T Architects and Engineers (Architectural)	Mr. Jess Yeung	2832 7410
Main Contractor	China Road and Bridge Corporation	Mr. Vincent Chung	2283 1688
Environmental Team Leader	Telemax Environmental and Energy Management Ltd.	Mr. Jason Lau	3610 8713
Independent Environmental Checker	Allied Environmental Consultants Ltd.	Ms. Grace Kwok	2815 7028



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- The construction programme is referred to Appendix A and the management structure 2.6 is given in Appendix B.
- The major works undertaken and/or completed during the reporting month are listed as 2.7 below:
  - Checking and maintenance of piling plant
  - Setting out of pile cap
  - Site clearance
  - Hacking concrete paving for sheet pile installation
  - Sheet pile installation, driving and fixing
  - Steel bar bending for pile caps
  - Formwork erecting for pile caps
  - Sheet pile extraction
  - Welding for capping plate
  - Installation of static load test platform
  - Unloading static load test
  - Static load test
  - Concreting work
  - Loading test

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### 3.0 Environmental Status

#### **Status of the Statutory Environmental Compliance**

3.1 The EM&A Works follow the EP conditions under the Environmental Impact Assessment Ordinance (EIAO) and a summary of the submission under the EP for this project up to the reporting month is presented in *Table 2 & Table 3* below:

Table 2 Status of Licenses and Permits

			Valid	l Period	License/	
Statutory Reference	License/ Permit	License or Permit No.	From	То	Permit Holder	Remarks
EIAO	Environmental Permit	EP-454/2013	12-Nov- 13	N/A	FEHD	-
WPCO	Discharge License (Site)	WT00023331-2015	22-Jan-16	31-Jan-21	CRBC	Discharge of Industrial Trade Effluent in Contract No. SS D505 was approved on 22 Jan 2016.
WDO	Chemical Waste Producer Registration	5213-269-C1232- 18	15-Jan-16	N/A	CRBC	Chemical waste produced in Contract No. SS D505. The application was approved on 15 Jan 2016.
WDO	Billing Account for Disposal of Construction Waste	7024032	21-Dec- 15	N/A	CRBC	Waste disposal in Contract No. SS D505. The application was approved on 21 Dec 2015.
NCO	Construction Noise Permit	PP-RE0028-16	11-Oct-16	31-Mar-17	CRBC	Carrying out of percussive piling (0700 to 1900 hours on all days except general holidays, including Sundays). The permit was approved on 7 October 2016.
NCO	Construction Noise Permit	GW-RE1081-16	24-Nov- 16	23-May-17	CRBC	Use of water pump during nighttime. (0000 to 2400 hours on all days except general holidays, including Sundays and 1900-2400 hours on any day not being a general holiday.). The permit was approved on 9 November 2016.

The copies of environmental licenses or permits are enclosed in Appendix M.

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### Table 3 Summary of the Submission under the EP

EP-454/2013 Clause No.	Submission Status	
1.12	Notification of commencement date of construction on 15th January 2016	
2.4	Landscape and Visual Mitigation Plan submitted on 27th January 2016	
3.3	Baseline monitoring report submitted on 15th February 2016	
3.4	Environmental Monitoring Report of November 2016 submitted on 12 <sup>th</sup> December 2016	
4.2 & 4.3 Dedicated web site set up on 11th April 2016		

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#### **Mitigation Measures for Construction Works**

3.2 According to the basic project information, the major construction works undertaken during the reporting month are listed in *Table 4*, showing the interrelationship between construction activities and environmental mitigation measures for the reporting month. In order to indicate the project site, an illustrative drawing is provided in *Appendix I* to demonstrate the location of works, the project area, environmental sensitive receivers and locations of the monitoring and control stations.

Table 4 Interrelationship between Construction Activities and Mitigation Measures

	Table 1 Interretainments in process Constitution in the analysis of the analys					
Construction Works		Major Environmental Impact	Mitigation Measures			
1. 2. 3. 4. 5. 6.	Checking and maintenance of piling plant Setting out of pile Site clearance Hacking concrete paving for sheet pile installation Sheet pile installation, driving and fixing Steel bar bending for pile caps Formwork erecting for pile caps	Construction dust, construction noise and waste management	<ol> <li>Tarpaulin cover shall be provided to minimize potential for damage or contamination of construction materials;</li> <li>Watering and imperious sheeting was provided to dusty materials;</li> <li>Water spraying should be provide to haul road and excavation works;</li> <li>Well-maintained and quiet plants were used;</li> <li>Proper waste storage and sorting was applied;</li> <li>Trip record was maintained properly; and</li> <li>Noise barrier was implemented during piling activities;</li> </ol>			
8. 9.	Sheet pile extraction Welding for capping plate		Cement sealing, cover walkway pavement and pump addition are implemented during rainy season.			
10.	Installation of static load test platform					
11.	Unloading static load test					
12.	Static load test					
13.	Concreting work					
	Loading test					

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## 4.0 Summary of EM&A Requirement

4.1 According to the environmental findings detailed in the Environmental Impact Assessment (EIA) report and the EM&A Manual of the Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area Project ("the Project"), the EM&A requirements of the noise, air quality, water quality, waste management, landscape and visual and environmental audit are summarized as follows:

#### **Noise**

4.2 The construction noise level should be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). The Leq (30min) should be used as the monitoring parameter for the time period from 0700 to 1900 hours on normal weekdays. The supplementary information for data auditing and statistical results, such as L<sub>10</sub> and L<sub>90</sub>, should be should be obtained and recorded for reference.

#### **Environmental Audit**

- 4.3 Site inspections should be conducted regularly to ensure that appropriate environmental protection and pollution control mitigation measures for noise, air quality, water quality, waste management and landscape and visual aspects are properly implemented for the construction works activities associated with the Project, as they are one of the most effective tools to enforce the environmental protection requirements at the works sites and works areas.
- 4.4 Regular site inspections should be carried out and led by the Architect's Representative and attended by the Contractor and ET at least once every week. The areas of inspection should not be limited to the environmental conditions, pollution control and mitigation measures within the works sites and works areas. It should also review the environmental conditions of that location that are beyond the boundary of the works sites and works areas likely to be affected directly or indirectly by the construction site activities. The ET Leader should make reference to the following information when conducting site inspection:
  - The EIA and EM&A recommendations on the environmental protection and pollution control mitigation measures;

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- On-going results of the EM&A programme;
- The works progress and programme;
- Proposals of individual works methodologies (which should include the proposal of the associated pollution control measures);
- Contract specifications on environmental protection and pollution prevention control;
- The relevant environmental protection and pollution control legislation; and
- Previous site inspection findings that were undertaken by the ET and/or others.
- 4.5 The Contractor should keep the Architect's Representative and ET updated with all the relevant environmental related information on the construction contract to carry out the site inspections. The inspection findings and associated recommendations for improvements to the environmental protection and pollution control and outcome of the improvement should be recorded and followed up by the Contractor in an agreed timeframe.
- 4.6 The Architect's Representative, ET and Contractor should also carry out ad hoc site inspections if significant environmental problems are identified. Inspections may also be required subsequent to the receipt of environmental complaints, or as part of the investigation work, as specified in the Event and Action Plans for the EM&A programme.

#### **Action and Limit Level**

4.7 Accordingly to the EM&A requirement only noise impact of the construction stage requires impact monitoring. Corresponding action and limit level is set up to provide an appropriate framework for the interpretation of monitoring results. The noise impact monitoring data shall be checked against the Action and Limit Levels as listed in *Table* 5.

Table 5 Action and Limit Levels for Construction Noising Monitoring

Time Period	Action Level	Limit Level, Leq 30mins, dB(A)
0700-1900 hours on	When one documented complaint is	70 dB(A) for school
normal weekdays	received	65 dB(A) during examination period.
		75 dB(A) for residential premises

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#### **Event and Action Plans**

4.8 In case of non-compliance with the construction noise criteria, the contractor shall undertake corresponding actions in accordance with the Event and Action Plan given in EM&A Manual and shown in *Table 6*.

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Table 6 Event and Action Plan for Construction Noise Monitoring

Event		Action				
	ET	IEC	Architect's Representative	Contractor		
Action	1. Notify the IEC and Contractor.	1. Review the analysed results	1. Confirm receipt of notification of failure	1. Submit noise mitigation proposals		
Level	2. Carry out investigation.	submitted by the ET.	in writing.	to the IEC.		
	3. Report the results of investigation to the IEC and	2. Review the proposed remedial	2. Notify the Contractor.	2. Implement noise mitigation		
	Contractor.	measures by the Contractor and	3. Require the Contractor to propose	proposals.		
	4. Discuss with the Contractor and formulate remedial	advise the Architect's	remedial measures for the analysed noise			
	measures.	Representative accordingly.	problem.			
	5. Increase monitoring frequency to check mitigation	3. Supervise the implementation of	4. Ensure remedial measures are properly			
	effectiveness.	remedial measures.	implemented.			
Limit	1. Notify the IEC, Architect's	1. Discuss amongst the Architect's	1. Confirm receipt of notification of failure	1. Take immediate action to avoid		
Level	Representative, EPD and Contractor.	Representative, ET and	in writing.	further exceedance.		
	2. Identify sources.	Contractor on the potential remedial	2. Notify the Contractor.	2. Submit proposals for remedial		
	3. Repeat measurements to confirm findings.	action.	3. Require the Contractor to propose	action to the IEC within 3 working		
	4. Increase monitoring frequency.	2. Review the Contractor's	remedial measures for the analysed noise	days of notification.		
	5. Carry out analysis of the Contractor's working	remedial action whenever necessary	problem.	3. Implement the agreed proposals.		
	procedures to determine possible mitigation to be	to assure their effectiveness and	4. Ensure remedial measures are properly	4. Resubmit proposals if problems		
	implemented.	advise the Architect's	implemented.	still not under control.		
	6. Inform the IEC, Architect's Representative and EPD the	Representative accordingly.	5. If exceedance continues, consider what	5. Stop the relevant portion of works		
	causes and action taken for the exceedances.	3. Supervise the implementation of	portion of work is responsible and instruct	as determined by the Architect's		
	7. Assess the effectiveness of the Contractor's remedial	remedial measures.	the Contractor to stop that portion of works	Representative until the exceedance		
	action and keep the IEC, EPD and Architect's		until the exceedance is abated.	is abated.		
	Representative informed of the results.					
	8. If exceedance stops, crease additional monitoring					

Note (1): ET – Environmental Team, IEC – Independent Environmental Checker; (2) Each step of action should be undertaken within 1 working day unless otherwise specified.



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## 5.0 Implementation Status of Environmental Mitigation

#### **Measures**

- 5.1 During reporting month, major works undertaken and/or completed during the reporting month are listed as below:
  - Checking and maintenance of piling plant
  - Setting out of pile
  - Site clearance
  - Hacking concrete paving for sheet pile installation
  - Sheet pile installation, driving and fixing
  - Steel bar bending for pile caps
  - Formwork erecting for pile caps
  - Sheet pile extraction
  - Installation of static load test planform
  - Unloading static load test
  - Static load test
  - Concreting work
  - Loading Test
- 5.2 The relevant parties have implemented mitigation measures which include, but not limited to the following:
  - Tarpaulin cover shall be provided to minimize potential for damage or contamination of construction materials;
  - Watering and imperious sheeting was provided to dusty materials;
  - Water spraying should be provide to haul road and excavation works;
  - Well-maintained and quiet plants were used;



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- Proper waste storage and sorting was applied;
- Trip record was maintained properly; and
- Noise barrier was implemented during piling activities; and
- Cement sealing, cover walkway pavement and pump addition are implemented during rainy season.

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5.3 A total of 5 site inspections were conducted by the Environmental Team (ET) in this reporting period. Major observation by the ET, actions by the Contractor and outcome are summarized in Table 7.

Table 7 Summary of Site Inspections

Date	Non-compliances /	Action taken by Contractor	Outcome
	Observations / Reminders		
1st December 2016	Nil.	Nil.	Nil.
8 <sup>th</sup> December 2016	Reminder 1: The contractor was reminded to provide appropriate dust suppression measure to exposed surfaces and unpaved road during dry weather.	The contractor shall provide appropriate dust suppression measures during dry days.	The contractor carried out more frequent water spray as dust suppression measures during dry days.
15 <sup>th</sup> December 2016	Reminder 1: The contractor was reminded to provide appropriate dust suppression measure to exposed surfaces and unpaved road during dry weather.	The contractor shall provide appropriate dust suppression measures during dry days.	The contractor carried out more frequent water spray as dust suppression measures during dry days.
22 <sup>nd</sup> December 2016	Nil.	Nil.	Nil.
30 <sup>th</sup> December 2016	Nil.	Nil.	Nil.

5.4 During site inspection in the reporting month, reminder and suggestion are made to the Contractor and corresponding environmental mitigation measures was observed. The implementation of environmental mitigation measures for construction stages stated in approved EIA Report, EM&A Manual and Environmental Permit were carried out properly as shown in Appendix C.

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#### 6.0 **Monitoring Methodology**

#### **Monitoring Parameter**

- 6.1 Impact noise monitoring was conducted at the designated noise monitoring location between 0700-1900 hours using a sound level meter which complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1).
- Monitoring of L<sub>eq(30min)</sub> should be carried out at each station at 0700-1900 hours on 6.2 normal weekdays at a frequency of once a week when construction are underway. The L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> should be recorded at the specified intervals. The meter shall be mounted on a tripod at a height of 1.2m above ground with the microphone positioned at G/F adjacent the NSRs facing the works area.
- 6.3 Noise measurements shall not be made in the presence of fog, rain, and wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable anemometer capable of measuring the wind speed in m/s. Noise measurements shall be made when construction activities are underway.

#### **Calibration and Maintenance**

- 6.4 The calibration of the sound level meter and their respective calibrators shall be carried out according to the manufacturer's requirements. The sound level meter and the calibrator shall be calibrated at an accredited laboratory to ensure their performance and accuracy meet manufacturer's specifications.
- 6.5 Maintenance and calibration procedures are as follows:
  - The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
  - The sound level meter and calibrator should be calibrated annually

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- 6.6 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using the acoustic calibrator. Measurements shall be valid only if the calibration level, before and after the noise measurement, agree to within 1.0 dB.
- 6.7 The equipment shall be stored properly and well-maintained with regard to the manufacturer's recommendations. Noise instrumentation details are given in Table 8 and the Calibration Certificates for the sound level meter and calibrator are given in Appendix D.

Table 8 Noise Monitoring Equipment

Item	Equipment	Model Number	Serial Number
1	Integrating Sound Level Meter	AWA5661	304042
2	Integrating Sound Level Meter	AWA5661	304716
3	Calibrator	QC-10	056-990

#### **Monitoring Locations**

6.8 The designated locations for the construction noise monitoring are listed in *Table 9* and shown in *Appendix I*.

<u>Table 9 Representative Noise Sensitive Receivers Identified for Construction</u>

NSR ID	Location	NSR Type
NSR1	Sir Ellis Kadoorie Secondary School (West Kowloon)	Educational Premises
NSR7	Fu Cheong Estate Fu Yuen House	Residential Premises

<sup>\*</sup>NSR = Noise Sensitive Receivers

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## 7.0 Monitoring Results

- 7.1 Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) and Fu Cheong Estate Fu Yuen House (NSR7) on 6<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup>, 23<sup>rd</sup> and 29<sup>th</sup> December 2016.
- Noise monitoring results in terms of L<sub>eq(30min)</sub>, L<sub>10(30min)</sub> and L<sub>90(30min)</sub> measured at Sir Ellis Kadoorie Secondary School (NSR1) and Fu Cheong Estate Fu Yuen House (NSR7) are summarized in *Table 10* and *Table 11* respectively and the corresponding graphical plot and field record sheet are given in Appendix E. The field record sheets record the measured noise levels according to façade measurements. L<sub>10</sub> and L<sub>90</sub> represent sound levels that are exceeded 10% and 90% of the time respectively. Normally, L<sub>10</sub> measurements can be considered as the average peak levels, whilst L<sub>90</sub> levels can be considered as the average background noise levels. No exceedance was found during the reporting period at both NSR1 and NSR7 according to the monitoring results.

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### <u>Table 10 Noise Monitoring Results at NSR1</u>

NSR1		Sir Ellis Kadoorie Secondary School										
Date	Monitoring Time Period	Weather Condition	Wind Speed (m/s)	L <sub>10(30 min)</sub>	L90(30 min)	Leq(30 min)	Limit Level					
06/12/16	07:00-19:00	Sunny	<5	67.2	56.7	65.1	70.0					
12/12/16	07:00-19:00	Sunny	<5	66.8	57.4	64.7	70.0					
17/12/16	07:00-19:00	Sunny	<5	67.3	58.2	65.1	70.0					
23/12/16	07:00-19:00	Fine	<5	66.5	57.9	64.4	70.0					
29/12/16	07:00-19:00	Sunny	<5	66.4	56.8	64.2	70.0					
Average Leq(30 min)					64.7		70.0					

#### Remarks:

Unit in dB(A)

Limit Level for NSR1 = 70.0 dB(A)

Compliance achieved in the reporting period

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Table 11 Noise Monitoring Results at NSR7

NSR7		Fu Cheong Estate Fu Yuen House									
Date	Monitoring	Weather	Wind Speed	Lacas	Lange	T	Limit				
	Time Period	Condition	(m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Level				
06/12/16	07:00-19:00	Sunny	<5	75.0	67.3	72.8	75.0				
12/12/16	07:00-19:00	Sunny	<5	74.8	66.9	72.7	75.0				
17/12/16	07:00-19:00	Sunny	<5	74.7	67.1	72.7	75.0				
23/12/16	07:00-19:00	Fine	<5	74.5	66.0	72.3	75.0				
29/12/16	07:00-19:00	Sunny	<5	74.6	66.0	72.5	75.0				
	Average Leq(30 min)				72.6		75.0				

#### Remarks:

Unit in dB(A)

Limit Level for NSR7 = 75.0 dB(A)

Compliance achieved in the reporting period

- 7.3 The minimum and maximum noise level measure in a single 30-min period at the Sir Ellis Kadoorie Secondary School (NSR1) was 62.5 Leq(30min) and 66.7 Leq(30min) respectively with an average of 64.7 dB(A) L<sub>eq(30min)</sub>. Therefore, the results were not considered as exceedance. (Leq(30min) no greater than 70.0 dB(A)).
- 7.4 The minimum and maximum noise level measure in a single 30-min period at the Fu Cheong Estate Fu Yuen House (NSR7) was 68.1 Leq(30min) and 74.6 Leq(30min) respectively with an average of 72.6 dB(A) L<sub>eq(30min)</sub>. Therefore, the results were not considered as exceedance. ( $L_{eq(30min)}$  no greater than 75.0 dB(A)).
- 7.5 Piling work was undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.

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## 8.0 Non-compliance, Complaints, Notifications of Summons and

### **Status of Prosecutions**

### **Record on Non-compliance of Action and Limit Levels**

8.1 For construction noise, no Action and Limit Level exceedance was recorded at all monitoring stations in the reporting period.

#### **Record on Environmental Complaints Received**

- 8.2 No environmental compliant was recorded in the reporting month.
- 8.3 The cumulative statistics on complaints were provided in **Appendix K**.

#### Record on Notifications of Summons and Successful Prosecution

8.4 No notifications of summons or successful prosecution were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

# Review of Reasons for and Implications of Non-compliance, Complaints, Summons and Prosecutions

8.5 As no notifications of summons or successful prosecution were received, the associated review was not required.

#### **Follow-up Actions Taken**

8.6 As no notifications of summons or successful prosecution were received, the associated follow-up actions were not required.

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## 9.0 Forecast of Works Programme and Future Key Issues

- 9.1 The major site work scheduled to be commissioned in the coming three months include:
  - Setting up of tower crane
  - Backfilling works
  - R.C. Frame works
  - Grasscrete installation works
  - Plumbing installation works
  - Drainage installation works
  - Electrical installation works
  - MVAC installation works
  - Fire services installation works
- **9.2** Key issues to be considered in the coming three months include:
  - Properly store and label oils and chemicals on site;
  - Chemical, chemical waste and waste management;
  - Sorting, recycling, storage and disposal of general refuse and construction waste;
  - Properly maintain all drainage facilities and wheel washing facilities on site;
  - Generation of dust from construction works;
  - Noise impact from operation equipment and machinery on site;
  - Generation of site surface runoffs and wastewater from activities on site; and
  - Tree protective measures for all retained trees should be well maintained.
- 9.3 The environmental site inspection and environmental monitoring will be continued in the coming month. Impact monitoring for noise in accordance with the approved EM&A Manual has commenced since 4<sup>th</sup> March 2016. The tentative monitoring schedule is

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## 10.0 Solid and Liquid Waste Management Status

- 10.1 The contractor has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 10.2 As advised by the Contractor, 2585.10 tons of excavated C&D materials were disposed at public fills and 3.50 tons of general refuse was disposed at NENT landfill. 0 tons of paper/cardboard packaging, 0 tons of plastics and 1.72 tons of metals were collected by recycling contractor in the reporting month. 0 tons of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0 tons of chemical waste was collected by licensed contractor in the reporting period. Monthly Waste Flow Table is given in *Appendix L*.
- 10.3 The Contractor was advised to maintain on site waste sorting and recording system and maximize reused / recycle of C&D wastes.

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## 11.0 Comments, Recommendations and Conclusions

- 11.1 Environmental impact monitoring had been carried out for FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area.
- 11.2 The recommended mitigation measures are summarized as below:

#### **Chemical waste and Waste Management**

- C&D material should be sorted and removed timely.
- All plants on site should be properly maintained to prevent oil leakage.
- General refuse and construction waste shall be sorted, recycled, stored and disposed properly and record shall be kept.
- Larger chemical waste storage tanks shall be provided.

#### **Water Quality Impact**

- All drainage facilities on site shall be properly maintained
- Wastewater treatment system shall be set up once proposal approved.
- Generation of site surface runoffs and wastewater from activities on site shall be properly treated with the on-site wastewater treatment system prior to discharge.

#### **Air Quality Impact**

- All vehicle should be washed to remove any dusty.
- Haul roads should be sufficiently dampened to minimize fugitive dust generation.
- Wheel washing facilities shall be installed since water jet is implemented as temporary measures.

#### **Construction Noise Impact**

- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Noise barrier should be properly implemented during piling work.

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#### **Landscape and Visual Impact**

- Retained tree should be properly fenced off and the working area.
- Mulching shall be provided to the retained tree.
- Green roof of site office shall be provide once construction is finished.
- 11.3 The mitigation measures had been implemented to minimize the environmental impacts due to the construction of FEHD Sai Yee Street Environmental Hygiene Offices-cumvehicle Depot, Yen Ming Road, West Kowloon Reclamation Area. The recommended mitigation measures in the EIA process and the EM&A programme were effective in protecting the environment. As such, the environmental performance during the construction phase was considered acceptable.
- 11.4 Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) and the Fu Cheong Estate Fu Yuen House (NSR7) on 6<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup>, 23<sup>rd</sup> and 29<sup>th</sup> December 2016.
- 11.5 The minimum and maximum noise level measure in a single 30-min period at the Sir Ellis Kadoorie Secondary School (NSR1) was 62.5 L<sub>eq</sub>(30min) and 66.7 L<sub>eq</sub>(30min) respectively with an average of 64.7 dB(A) L<sub>eq</sub>(30min). Therefore, the results were not considered as exceedance. (L<sub>eq</sub>(30min) no greater than 70.0 dB(A)).
- 11.6 The minimum and maximum noise level measure in a single 30-min period at the Fu Cheong Estate Fu Yuen House (NSR7) was  $68.1 \, L_{eq(30min)}$  and  $74.6 \, L_{eq(30min)}$  respectively with an average of  $72.6 \, dB(A) \, L_{eq(30min)}$ . Therefore, the results were not considered as exceedance. ( $L_{eq(30min)}$  no greater than  $75.0 \, dB(A)$ ).
- 11.7 Piling work was undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.
- 11.8 In the reporting period, no environmental complaint and no notifications of summons or successful prosecution were received.



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- 11.9 Weekly construction phase site inspections and landscape and visual impact inspections were conducted during the reporting month as required. The monitoring results and statistics of non-compliance indicated that the EIA process with its recommended mitigation and EM&A programme were effective for protection of the environment and there was no significantly unacceptable environmental impact posed by the Project.
- 11.10 In the reporting month, a total of 2585.10 tons of excavated C&D materials were disposed at public fills and 3.50 tons of general refuse was disposed at NENT landfill. 0 tons of paper/cardboard packing, 0 tons of plastics and 1.72 tons of metals were collected by recycling contractor.
- 11.11 Construction activities to be undertaken in the next three months include setting up of tower crane, backfilling works, R.C. Frame works, grasscrete installation works plumbing installation works, drainage installation works, electrical installation works, MVAC installation works and fire services installation works. Potential environmental impacts include generation of various wastes including oil and chemical wastes, general refuse and construction waste, maintenance work to all drainage facilities and wheel washing facilities noise from operation equipment and machinery, tree protective measures shall be carried for tree retained.
- 11.12 The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from the construction works. The Contractor is also reminded to maintain good housekeeping at the site.

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**Appendix A** Master Programme



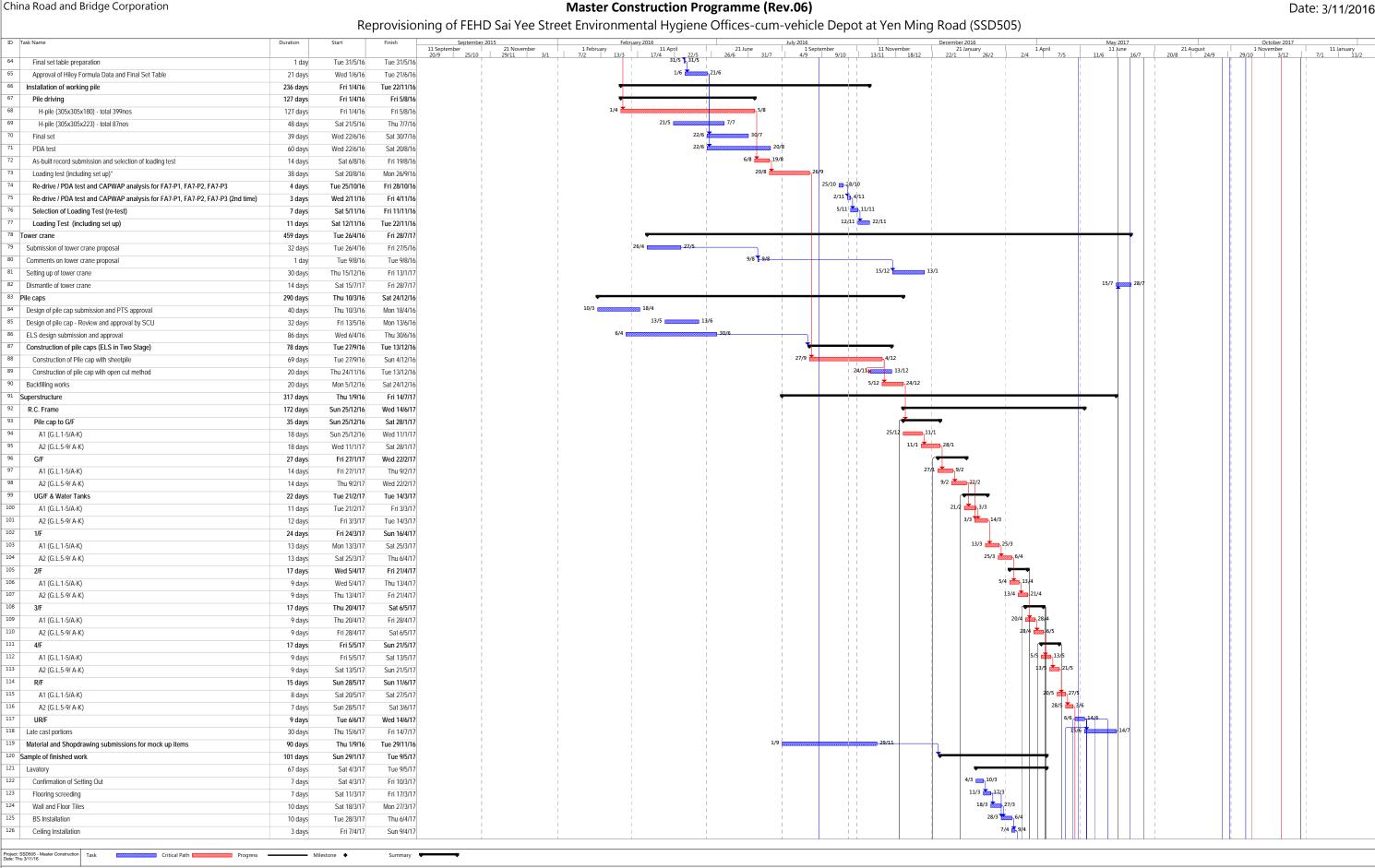
nina Road and Bridge Corporation		Re	provisio	ning of FEHI	D Sai Yee Street Environme	struction Programme (Re ntal Hygiene Offices-cum-		t at Yen Ming	Road (SSD50	5)				Date: 3/
Task Name	Duration	Start	Finish	September 11 September 20/9 25/10	2015 February 1 February		July 2016 1 September 4/9 9/10		December 2016	1 April	May 20 11 Jur 11/6	ne 21 August	October 1 November	er 1:
Contract period	757 days	Wed 9/12/15	Thu 4/1/18		29/11 3/1 7/2 13/3	17/4 22/5 26/6 31/7	4/9 9/10	13/11 18/12	22/1 26/2	2/4 7/5	11/6	16/7 20/8 24/9	29/10 3/	:/12 7/1
Project commencement Project commencement	0 days	Wed 9/12/15	Wed 9/12/15	į	♦ 9/12									
Project completion	0 days	Thu 4/1/18	Thu 4/1/18	i									I I	<b>♦</b> 4/1
Milestone Dates	758 days	Wed 9/12/15	Thu 4/1/18	1	₹	1							+	
Project commencement	0 days	Wed 9/12/15	Wed 9/12/15	1	♦ 9/12	1			 		1	 	1	I I
Submission / Application of Form WWO 046 (Part I & II)	1 day	Mon 3/10/16	Mon 3/10/16	I.	1 1	1	3/10	1	1		1		1	I I
Submission of Form WWO46 Part IV	1 day	Sat 15/7/17	Sat 15/7/17	į		į į	i i	į	į		· · ·	15/7	į	į
Last Manhole Connection Completion	1 day	Tue 25/7/17	Tue 25/7/17	i		;		 				25/7		1
Water Certificate Obtained	1 day	Tue 8/8/17	Tue 8/8/17									8/8		
Handover of Transformer Room & Switch Room to CLP	1 day	Wed 7/6/17	Wed 7/6/17	I.	1	1			1		7/6		1	
Power Energisation	1 day	Sat 21/10/17	Sat 21/10/17	į	į	į į	ii	i	į		į		21/10	
Lift certificate Obtained (Fireman's Lift)	1 day	Sat 28/10/17	Sat 28/10/17	i		i	i i	i			i		28/10	
Form 501 Submission	1 day	Sun 12/11/17	Sun 12/11/17	1									12/11	
FSD inspection	1 day	Sun 26/11/17	Sun 26/11/17	1			1 1		1				26/11	I I
F.S. Certificate Obtained	1 day	Sat 16/12/17	Sat 16/12/17	į		į į	i i	i	į		į			16/12
Site Handover	1 day	Thu 4/1/18	Thu 4/1/18	i		;	1 1		1		i			<b>↑</b> <sup>4/1</sup>
Critical Path Summary	758 days	Wed 9/12/15	Thu 4/1/18		<u> </u>	<u> </u>	1 1	1	1					
Project commencement	0 days	Wed 9/12/15	Wed 9/12/15		9/12			į.	į					
Hoarding installation	113 days	Thu 10/12/15	Thu 31/3/16	i	10/12		1.1	T.						
H-pile (305x305x180) - total 399nos	127 days	Fri 1/4/16	Fri 5/8/16		1/4	5/8	1 1	i						
As-built record submission and selection of loading test	14 days	Sat 6/8/16	Fri 19/8/16	I		6/8 6/8	1 1		I I					
Loading test (70% completed)	38 days	Sat 20/8/16	Mon 26/9/16	į		20/8	26/9	1						
Construction of pile caps (excavation, pile head and R.C. works)	69 days	Tue 27/9/16	Sun 4/12/16				27/9	4/12						
Backfilling works	20 days	Mon 5/12/16	Sat 24/12/16	1			1 1	5/12 24/12						
R.C. Frame (G/F ~ R/F)	161 days	Sun 25/12/16	Sat 3/6/17	1		1					J 3/6			
External Wall Preparation Works for Curtain Wall Installation	21 days	Sun 4/6/17	Sat 24/6/17	į	į į	į į	i i	į.	į	4/6	24/6			
Curtain Wall Frame Installation	86 days	Sun 25/6/17	Mon 18/9/17	i		i					25/6	18/9		l i
Curtain Wall Glazing work	50 days	Tue 19/9/17	Tue 7/11/17	1				 				19/9	7/11	
Removal of scaffoldings	11 days	Wed 8/11/17	Sat 18/11/17	1		1			1				8/11 18/11	
EVA Construction and paving	7 days	Sun 19/11/17	Sat 25/11/17	į	į	į į	i i	İ	į		į		19/11 25/11	
FSD inspection and Issuance of FS Certificate	21 days	Sun 26/11/17	Sat 16/12/17	i		i		i			i		26/11	16/12
SCCU Inspection	14 days	Sun 17/12/17	Sat 30/12/17	1									17/12	30/12
General cleaning	5 days	Sun 31/12/17	Thu 4/1/18	1			1 1	T.	1				3.	31/12 📥 4/1
Preparation works	371 days	Thu 10/12/15	Wed 14/12/16	į	<b>—</b>			<del></del>	į		į			
Mobilization	7 days	Thu 10/12/15	Wed 16/12/15	1	10/12 2 16/12	;	1 1	i i			i			1
Condition survey and U/G utility survey	80 days	Thu 10/12/15	Sat 27/2/16	1	10/12 27/2									
Setting up site office (1) Drawing submission and approval	60 days	Thu 10/12/15	Sun 7/2/16	1	10/12	1			1					
Setting up site office (2) Material fabrication and construction	60 days	Mon 8/2/16	Thu 7/4/16	į	8/2	1	i i		į		į			
Temporary electricity and water	218 days	Thu 10/12/15	Thu 14/7/16	i	10/12	14/7					i			
Setting out of site area	45 days	Thu 10/12/15	Sat 23/1/16	1	10/12 23/1									
Hoarding (1) installation	113 days	Thu 10/12/15	Thu 31/3/16	1	10/12	1	1 1		1		1			
Hoarding (2) painting and lighting	60 days	Fri 1/4/16	Mon 30/5/16	į	1/4	30/5	1.1	T.	į		į			
Removal of existing trees	60 days	Thu 10/12/15	Sun 7/2/16	i	10/12 7/2	i i	1 1				i			
Hoarding enhancement work	45 days	Mon 31/10/16	Wed 14/12/16				31/10	14/12	I I					
Piling work	350 days	Wed 9/12/15	Tue 22/11/16	į	-			<b>→</b>						
Design Submission	78 days	Wed 9/12/15	Wed 24/2/16		<b>→</b>	į								
Preparation and submit piling design	27 days	Wed 9/12/15	Mon 4/1/16		9/12 4/1		1 1	T.						
Review of piling design by SCU	30 days	Tue 5/1/16	Wed 3/2/16		5/1		1 1		I I					
Coordination with MTRC and Method statement for MTRC Approval	21 days	Thu 4/2/16	Wed 24/2/16	į	4/2		1 1	T.	į				11	
Noise permit application	45 days	Mon 14/12/15	Wed 27/1/16		14/12 27/1		1.1	T.						
Material testing	141 days	Mon 28/12/15	Mon 16/5/16		•		1 1	T.			i			
H-Pile Delivery (Batch 1 to 4)	15 days	Mon 28/12/15	Mon 11/1/16	I I	28/12 11/1		1 1		I I					
H-Pile Delivery (Batch 5)	1 day	Tue 12/4/16	Tue 12/4/16		12/4	12/4		T.			1			
H-Pile Delivery (Batch 6)	1 day	Wed 13/4/16	Wed 13/4/16	1	13/4	13/4	1.1	T.						
Delivery of Splicing Steel Plate (1st Batch)	1 day	Sun 21/2/16	Sun 21/2/16		21/2 21/2		1 1	T.						
Delivery of Splicing Steel Plate (2nd Batch)	1 day	Mon 9/5/16	Mon 9/5/16	1		9/5 7 9/5	1 1	T.						
Material Testing for H-pile (Batch 1)	7 days	Tue 10/5/16	Mon 16/5/16			10/5 16/5	1.1	T.						
Material Testing for H-pile (Batch 2, 3 & 4 & Batch 1 16mmthk, steel plate)	15 days	Thu 28/1/16	Thu 11/2/16		28/1 11/2			T.						
Material Testing for H-pile (Batch 5, 6 & Batch 2, 16mm thk steel plate)	13 days	Fri 22/4/16	Wed 4/5/16	1	22/-	44/5	1 1		I I					
Completion of monitoring check points, noise barrier and baseline noise monitoring	30 days	Mon 8/2/16	Tue 8/3/16	1	8/2		1 1	T.	į		1			
Installation of trial pile (2 hammers)	104 days	Thu 10/3/16	Tue 21/6/16			-	1.1	1						
Trial pile driving (21 nos.)	71 days	Thu 10/3/16	Thu 19/5/16	1	10/3	19/5	1 1	T.	I I					
PDA test	1 day	Fri 20/5/16	Fri 20/5/16			20/5 20/5	1 1	1	1		1		11 11 '	
L LUD II-AL		CH 20/0/10	FIL /U/0/10											

Remarks:

\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

Chinese New Year site close



Remarks:

\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

Chinese New Year site close

hina Road and Bridge Corporation	R	eprovisioning of FEHD Sai Yee Stre	Master Construction Programme (Rev.06) eet Environmental Hygiene Offices-cum-vehicle Depot at Yen Min	a Road (SSD505)	Date: 3
Task Name	Duration Start	Finish September 2015	February 2016 July 2016	December 2016 May 2017	October 2017
Inciall Canillan Filling	2 doug Man 10/4/17	11 September 21 November 20/9 25/10 29/11 3/1	1 February         11 April         21 June         1 September         11 November           7/2         13/3         17/4         22/5         26/6         31/7         4/9         9/10         13/11         18/12	21 January 1 April 11 June 22/1 26/2 2/4 7/5 11/6 16/7	21 August 1 November 20/8 24/9 29/10 3/12 7/1
Install Sanitary Fitting	3 days Mon 10/4/17	Wed 12/4/17		10/4	
General Cleaning and Approval of Mock Up  Locker	30 days Mon 10/4/17	Tue 9/5/17	i i i i i i i i i i i i i i i i i i i		
	101 days Sun 29/1/17	Tue 9/5/17		29/1 27/2	
Confirmation of Shop Drawing and Colour selection	30 days Sun 29/1/17	Mon 27/2/17		20/2	
Fabrication	34 days Tue 28/2/17	Sun 2/4/17		20/2	
Installation	7 days Mon 3/4/17	Sun 9/4/17		3/4 9/4	
General Cleaning and Approval of Mock Up	30 days Mon 10/4/17	Tue 9/5/17		10/4	
Changing & Shower Room	67 days Sat 4/3/17	Tue 9/5/17			
Confirmation of Setting Out	7 days Sat 4/3/17	Fri 10/3/17	i i i i i i i i i i i i i i i i i i i	4/3 10/3	
Flooring screeding	7 days Sat 11/3/17	Fri 17/3/17		11/3 27/3	
Wall and Floor Tiles	10 days Sat 18/3/17	Mon 27/3/17		18/3 27/3	
BS Installation	10 days Tue 28/3/17	Thu 6/4/17	i i i i i i i i i i i i i i i i i i i	28/3 6/4	
Ceiling Installation	3 days Fri 7/4/17	Sun 9/4/17		7/4 🗟 9/4	
Install Sanitary Fitting	3 days Mon 10/4/17	Wed 12/4/17		10/4 🚡 12/4	
General Cleaning and Approval of Mock Up	30 days Mon 10/4/17	Tue 9/5/17		10/4	
Corridor	67 days Sat 4/3/17	Tue 9/5/17			
Confirmation of Setting Out	7 days Sat 4/3/17	Fri 10/3/17	i i i i i i i i i i i i i i i i i i i	4/3 2001/10/3	
Flooring screeding	7 days Sat 11/3/17	Fri 17/3/17		11/3 17/3	
Wall and Floor Tiles	10 days Sat 18/3/17	Mon 27/3/17		18/3 27/3	
BS Installation	10 days Tue 28/3/17	Thu 6/4/17		28/3 6/4	
Ceiling Installation	3 days Fri 7/4/17	Sun 9/4/17		7/4 🐹 9/4	
General Cleaning and Approval of Mock Up	,	Tue 9/5/17		10/4	
	,				
G/F Entrance lobby	67 days Sat 4/3/17	Tue 9/5/17		4/3 3 10/3	
Confirmation of Setting Out	7 days Sat 4/3/17	Fri 10/3/17		11/3 17/3	
Flooring screeding	7 days Sat 11/3/17	Fri 17/3/17			
Wall and Floor Tiles	10 days Sat 18/3/17	Mon 27/3/17		18/3 27/3	
BS Installation	10 days Tue 28/3/17	Thu 6/4/17		28/3 6/4	
Ceiling Installation	3 days Fri 7/4/17	Sun 9/4/17	i i i i i i i i i i i i i i i i i i i	7/4 菱9/4	
General Cleaning and Approval of Mock Up	30 days Mon 10/4/17	Tue 9/5/17		10/4	
Grasscrete (G/F External parking area)	64 days Sat 4/3/17	Sat 6/5/17			
Surface preparation	28 days Sat 4/3/17	Fri 31/3/17		4/3	
Lay sub-base and sand	12 days Sat 1/4/17	Wed 12/4/17		1/4 2/4	
Lay grasscrete block	12 days Thu 13/4/17	Mon 24/4/17		13/4 24/4	
Soil and seed	12 days Tue 25/4/17	Sat 6/5/17		25/4 6/5	
Recycled plastic	63 days Wed 8/3/17	Tue 9/5/17	i i i i i i i i i i i i i i i i i i i		
External cladding & louvre feature	56 days Wed 15/3/17	Tue 9/5/17			
Setting out works	7 days Wed 15/3/17	Tue 21/3/17		15/3 21/3	
Installation of GMS frame	28 days Wed 22/3/17	Tue 18/4/17	i i i i i i i i i i i i i i i i i i i	22/3	
Fixing of recycle plastic	21 days Wed 19/4/17	Tue 9/5/17		19/4	
Green wall feature	56 days Wed 15/3/17	Tue 9/5/17		<u> </u>	
Setting out works	7 days Wed 15/3/17	Tue 21/3/17		15/3 21/3	
Installation of GMS frame	28 days Wed 22/3/17	Tue 18/4/17		22/3 18/4	
Fixing of recycle plastic				19/4	
		Sat 6/5/17		8/3	
Parapet wall feature	60 days Wed 8/3/17			15/3 21/3	
Setting out works Installation of GMS frame	7 days Wed 15/3/17	Tue 21/3/17		22/3	
Installation of GMS frame  Fixing of recycle plastic	28 days Wed 22/3/17	Tue 18/4/17		19/4	
· ······ 9 - · · ) - · - F	21 days Wed 19/4/17	Tue 9/5/17		1 19/4   2000   3/3	
Najor Material Submission and Approval (details refer to submission schedule)	157 days Thu 1/9/16		· · · · · · · · · · · · · · · · · · ·		
Solid concrete block	30 days Tue 1/11/16		1/11 30/11		
Liquid membrane waterproofing	30 days Tue 1/11/16		1/11 30/11		
Cementitious waterproofing coating	30 days Sun 27/11/16	Mon 26/12/16	27/11 27/11		
Floor Tiles	30 days Sun 27/11/16	Mon 26/12/16	27/11 27/12		
Wall Tiles	30 days Sun 27/11/16	Mon 26/12/16	27/11		
Timber flush doors (general and fire-rated)	30 days Sun 27/11/16	Mon 26/12/16	27/11		
Plastic laminate panel (wood grain pattern)	28 days Sun 18/12/16	Sat 14/1/17	18/12	1 14/1	
Acoustic timber wall panel system	21 days Sun 18/12/16	Sat 7/1/17	18/12	a	
Recycle wood panel, 3mm thk	30 days Sun 18/12/16		1 18/12	<u>1</u> 6/1	
Folding partitions	30 days Sun 25/12/16		25/12	23/1	
Furniture, cupboards, shelving, etc.	30 days Sun 25/12/16		25/12	23/1	
Ironmongeries			1/9		
	*			4/2	
Toilet cubicle partitions	28 days Sun 8/1/17	Sat 4/2/17		29/1	
Ceiling System	46 days Thu 15/12/16	Sun 29/1/17			
Locker system	30 days Sun 20/11/16	Mon 19/12/16	20/11		

Remarks:

\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

Chinese New Year site close

China Road and Bridge Corporation		Re	provisio	Master Construction Programme (Rev.06)  Date: 3/11  ning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
ID	Duration	Start	Finish	September 2015         February 2016         July 2016         December 2016         May 2017         October 2017
				11 September 21 November 1 February 11 April 21 June 1 September 11 November 21 June 1 September 11 June 12 August 1 November 11 June 21 August 2 June 21 June 21 June 21 August 2 June 21
External recycle plastic features	45 days	Sun 20/11/16	Tue 3/1/17	20/11 3/1
Recycle plastic trellis (Type 1)	45 days	Sun 20/11/16	Tue 3/1/17	20/11 3/1
P32 Recycle wood plastic composite with aluminium core section wall cladding P33 Vinyl floor tile	45 days	Sun 20/11/16	Tue 3/1/17	4/12 24/12
vinyi noor tile  Carpet tile	21 days	Sun 4/12/16	Sat 24/12/16	4/12
	21 days	Sun 4/12/16	Sat 24/12/16	2/12
External and internal paint	30 days	Sun 4/12/16	Mon 2/1/17	
Shop drawing Submission and Approval (details refer to submission schedule)	286 days	Sun 11/9/16	Fri 23/6/17	1/12 30/12
197 Glazing doors	30 days	Thu 1/12/16	Fri 30/12/16	
Metal Door and access panels	60 days	Thu 1/12/16	Sun 29/1/17	1/12 29/1
199 Recycled Plastic Feature	60 days	Thu 1/12/16	Sun 29/1/17	
200 BMU System	45 days	Sun 11/9/16	Tue 25/10/16	11/9 25/10
Suspensed Ceiling and Fire Resisting Enclosure System	45 days	Thu 15/12/16	Sat 28/1/17	15/12
Fall Arrest System	30 days	Sun 12/2/17	Mon 13/3/17	13/3
Acoustic Timber Wall Panel System	45 days	Sun 22/1/17	Tue 7/3/17	7/3
Acoustic Operable Wall System	30 days	Sun 22/1/17	Mon 20/2/17	22/1
O5 Timber Door	45 days	Sat 24/12/16	Mon 6/2/17	24/12
Timber Cabinet	45 days	Tue 24/1/17	Thu 9/3/17	24/1
Roller Shutters and Fire Shutters	41 days	Sun 19/3/17	Fri 28/4/17	19/3 28/4
208 Metal railing system	30 days	Sat 18/2/17	Sun 19/3/17	18/2
Waterproofing System	30 days	Sun 25/12/16	Mon 23/1/17	25/12
Toilet and Shower Cubicle Partition Systems	41 days	Sun 25/12/16	Fri 3/2/17	25/13
Changing Room Lockers System	30 days	Sun 25/12/16	Mon 23/1/17	25/12 25/12 23/1
212 Signage	40 days	Mon 15/5/17	Fri 23/6/17	
Internal Finishing Works	235 days	Sat 15/4/17	Tue 5/12/17	
Partition Wall and Door Sub-frame Installation (after completion of 3/F)	90 days	Sun 7/5/17	Fri 4/8/17	75
Window and Louver	110 days	Sat 15/4/17	Wed 2/8/17	1774   1   1   1   1   1   1   1   1   1
216 Internal Waterproofing works	90 days	Sun 28/5/17	Fri 25/8/17	28/3
Plastering, Tiling & Laying Floor Screed	100 days	Sun 2/7/17	Mon 9/10/17	9/10
Carpentry & Joinery/ Ironmongery and Door Installation	90 days	Fri 28/7/17	Wed 25/10/17	
219 Carpentry & Joineryl Ironmongery and Door Installation (Rooms with curtain wall will commence after glass panel installation, mainly 3/F, 4/F office)	28 days	Wed 8/11/17	Tue 5/12/17	5/12
220 False Ceiling	106 days	Fri 28/7/17	Fri 10/11/17	
Flooring Finishes	80 days	Sun 27/8/17	Tue 14/11/17	1
Painting	70 days	Sun 27/8/17	Sat 4/11/17	
223 Internal painting	70 days	Sun 27/8/17	Sat 4/11/17	
224 G/F	28 days	Sun 27/8/17	Sat 23/9/17	27/8 27/8 27/8 27/8 27/8 27/8 27/8 27/8
225 UG/F	21 days	Sat 9/9/17	Fri 29/9/17	29/9
226 1/F	21 days	Fri 15/9/17	Thu 5/10/17	5/10
227 2/F	21 days	Thu 21/9/17	Wed 11/10/17	
228 3/F	21 days	Wed 27/9/17	Tue 17/10/17	1 27/5 <del>4</del>
229 4/F	21 days	Tue 3/10/17	Mon 23/10/17	3/10
230 R/F	21 days	Mon 9/10/17	Sun 29/10/17	9/16 29/10
231 UR/F	21 days	Sun 15/10/17	Sat 4/11/17	15/16   15/16   15/16   15/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/16   16/1
32 External Wall Preparation Works for Curtain Wall Installation	21 days	Sun 4/6/17	Sat 24/6/17	1 4/6
External Wall Plastering and Tiling Works  External Wall Plastering and Tiling Works	45 days	Sun 25/6/17	Tue 8/8/17	8/8
234 External painting	30 days	Wed 9/8/17	Thu 7/9/17	9/8
Roofing works		Sat 29/4/17	Wed 16/8/17	
Waterproofing Application	110 days	Sat 29/4/17 Sat 29/4/17	Tue 27/6/17	29/4
waterproofing Application  Waterproofing Testing	60 days	Tue 27/6/17	Mon 17/7/17	17/7
	21 days			18/7
Roof tilling  39 Sanitary fittings installation	30 days	Tue 18/7/17	Wed 16/8/17	
39 Sanitary fittings installation 40 Provides Submission and Appendix (details refer to submission schodule)	274 days	Thu 1/9/16	Thu 1/6/17	15/11
Drawing Submisssion and Approval (details refer to submission schedule)	76 days	Thu 1/9/16	Tue 15/11/16	
241 G/F - 1/F 242 2/F - 4/F	14 days	Fri 21/4/17	Thu 4/5/17	
	21 days	Fri 5/5/17	Thu 25/5/17	25/5 26/5 10/6 12/6
43 R/F ~ UR/F	7 days	Fri 26/5/17	Thu 1/6/17	26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/2   26/
44 Submission of Aluminium window/ louvre & Curtain Wall	137 days	Mon 22/8/16	Thu 5/1/17	
Submission of Aluminium window & louvre	97 days	Mon 22/8/16	Sat 26/11/16	
Submission of shop drawing and calculation	1 day	Mon 22/8/16	Mon 22/8/16	22/8 22/8
Review & comment by P&T	45 days	Tue 23/8/16	Thu 6/10/16	
Re-submissoion	21 days	Fri 7/10/16	Thu 27/10/16	
Approval by P&T	30 days	Fri 28/10/16	Sat 26/11/16	28/10
Submission of Curtain Wall	97 days	Mon 22/8/16	Sat 26/11/16	
Submission of shop drawing and calculation	1 day	Mon 22/8/16	Mon 22/8/16	22/8 1, 22/8

Remarks:

\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

China Road and Bridge Corporation		Reprovisio	Master Construction Programme (Rev.06)  Date: 3/11/2  ning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
ID Task Name	Duration Star	<u> </u>	September 2015         February 2016         July 2016         December 2016         May 2017         October 2017
252 Review & comment by P&T	45 days Tu	e 23/8/16 Thu 6/10/16	11 September 21 November 1 February 11 April 21 June 1 September 11 November 21 January 1 April 11 June 21 August 1 November 11 January 20/9 25/10 29/11 3/1 7/2 13/3 17/4 22/5 26/6 31/7 4/9 9/10 13/11 18/12 22/1 26/2 2/4 7/5 11/6 16/7 20/8 24/9 29/10 3/12 7/1 1 23/8 6/10
253 Re-submissoion	*	ri 7/10/16 Thu 27/10/16	7/10
254 Approval by P&T		28/10/16 Sat 26/11/16	28/10
255 Submission of Performance mock-up CW1		ri 7/10/16 Sat 19/11/16	
The state of the s	-		7/10   7/10   1   1   1   1   1   1   1   1   1
Cubinission of stop drawing and test proposal	-	ri 7/10/16 Fri 7/10/16	8/10
Tionin a common by r ar	,	at 8/10/16 Fri 21/10/16	30/10 5/11
	-	30/10/16 Sat 5/11/16	6/11 19/11
259 Approval by P&T	-	n 6/11/16 Sat 19/11/16	
Submission of shop drawing for visual mock-up CW3 & control mock-up	36 days Fi	ri 7/10/16 Fri 11/11/16	
Submission of shop drawing	-	ri 7/10/16 Fri 7/10/16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Review & comment by P&T	14 days Sa	at 8/10/16 Fri 21/10/16	8/10
Re-submissoion	7 days Sat	22/10/16 Fri 28/10/16	22/10 🚵 , 28/10
Approval by P&T	14 days Sat	29/10/16 Fri 11/11/16	29/10 🚵 11/11
265 Submission of glass & PVDF colour sample	95 days Moi	n 3/10/16 Thu 5/1/17	
266 Preparation	30 days Moi	n 3/10/16 Tue 1/11/16	3/10 3/10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Review & comment by P&T		d 2/11/16 Thu 1/12/16	2/11
Re-submissoion		ri 2/12/16 Thu 22/12/16	2/12
269 Approval by P&T		23/12/16 Thu 5/1/17	23/12
270 Submission of window hardwares & Misc. sample			
Submission of minder hardhards a missi sample			3/10
	*	n 3/10/16 Tue 1/11/16	2/11
Review & comment by P&T	-	d 2/11/16 Thu 1/12/16	
273 Re-submissoion	-	ri 2/12/16 Thu 22/12/16	2/12
Approval by P&T	14 days Fri	23/12/16 Thu 5/1/17	23/12
Material Procurement & shop fabrication of Aluminium window/ louvre & Curtain Wall	247 days Mon	21/11/16 Tue 25/7/17	
276 Aluminium window & louvre	240 days Mon	28/11/16 Tue 25/7/17	
Die making, extrusion & PVDF coating	70 days Mon	28/11/16 Sun 5/2/17	5/2
278 Aluminium frame fabrication	90 days Mo	on 6/2/17 Sat 6/5/17	6/5
279 Glass		un 7/5/17 Tue 25/7/17	
280 Curtain Wall	239 days Mon	28/11/16 Mon 24/7/17	
Die making, extrusion & PVDF coating		28/11/16 Sat 25/2/17	28/11
282 Aluminium frame fabrication		ue 9/5/17 Thu 15/6/17	, , , , , , , , , , , , , , , , , , ,
283 Glass	*	n 15/5/17 Mon 24/7/17	
	-		
	-	21/11/16 Thu 30/3/17	
Die making, extrasion a 1 VD. Goding	-	21/11/16 Sat 18/2/17	
Aluminium frame fabrication	-	n 19/2/17 Thu 30/3/17	
<sup>287</sup> Glass	40 days Sui	n 19/2/17 Thu 30/3/17	19/2
Visual mock up for CW3 & control mock up	120 days Mon	21/11/16 Mon 20/3/17	
Die making, extrusion & PVDF coating	90 days Mon	21/11/16 Sat 18/2/17	121/11
Aluminium frame fabrication	30 days Sui	n 19/2/17 Mon 20/3/17	19/2
291 Glass	30 days Sui	n 19/2/17 Mon 20/3/17	19/2
292 Site Works of Aluminium window/ louvre & Curtain Wall	258 days Moi	n 27/2/17 Sat 11/11/17	
293 Aluminium window & louvre	229 days Moi	n 27/2/17 Fri 13/10/17	
294 Site Survey		n 27/2/17 Tue 28/3/17	27/2
295 Frame Installation	-	Sat 6/5/17 Thu 3/8/17	3/8
296 Glazing work		e 25/7/17 Fri 22/9/17	22/7 22/7 22/7 22/7 22/7 22/7 22/7 22/7
297 Field Waterlightness test		at 23/9/17 Fri 13/10/17	13/10
298 Curtain Wall	-	n 27/2/17 Sat 11/11/17	
			27/2 28/3
one carrey	-	n 27/2/17 Tue 28/3/17	
Curtain Wall Frame Installation	*	n 25/6/17 Mon 18/9/17	
Curtain Wall Glazing work	-	e 19/9/17 Tue 7/11/17	
Field Watertightness test	18 days Wed	25/10/17 Sat 11/11/17	25/10
Performance mock up for CW1	28 days Fi	ri 31/3/17 Thu 27/4/17	
Frame Installation	7 days Fi	ri 31/3/17 Thu 6/4/17	31/3 6/4
Glazing work	4 days I	Fri 7/4/17 Mon 10/4/17	7/4
Rose Pre-test		e 11/4/17 Tue 11/4/17	
Offical test		d 12/4/17 Thu 13/4/17	12/4 🛭 13/4
Review of test report	*	ri 14/4/17 Thu 27/4/17	1 14/4 2 2 2 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Note with test report  Visual mock up for CW3 & control mock up	-	ri 31/3/17 Thu 20/4/17	
310 Frame Installation	-	ri 31/3/17 Thu 13/4/17	31/3 31/3 13/4
	,		1 14/4 20 00 04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	*	ri 14/4/17 Thu 20/4/17	
Recycled products installation (cladding, architectural features, balustrades etc)	-	on 3/4/17 Fri 29/9/17	
Material and shopdrawing submissions	60 days M	on 3/4/17 Thu 1/6/17	$\frac{1}{1} \frac{3}{1} \frac{1}{1} \frac{1}$
Fixing of GMS angle	60 days	Fri 2/6/17 Mon 31/7/17	
Taking of GWO dingle			

Remarks:

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\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

China Road and Bridge Corporation					Master Construction Pro	gramme (Rev.06)					Date: 3/11/2016
		Re	provisio	ning of FEHD Sai Yee Stre	eet Environmental Hygiene	Offices-cum-vehicle D	epot at Yen Ming	Road (SSD505)			
ID Task Name	Duration	Start	Finish	September 2015 11 September 21 November	February 2016  1 February   11 April   7/2   13/3   17/4   22/5	July 2016 21 June 1 September	11 November	December 2016 21 January   27/1   26/2   27	1 April	May 2017 11 June 21 August	October 2017  1 November 11 January /10 3/12 7/1 11/2
315 Installation of Recycle wood plastic	60 days	Tue 1/8/17	Fri 29/9/17	11 September 21 November 20/9 25/10 29/11 3/1	1 February 11 April 7/2 13/3 17/4 22/5	21 June 1 September 26/6 31/7 4/9	11 November 9/10 13/11 18/12	22/1 26/2 2/	4 7/5 11/	May 2017  11 June 6 16/7 20/8 24/9 29/9 1 1/8 29/9 29/9	/10 3/12 7/1 11/2
General metal works (include shutters, railings and other general items etc.)	161 days	Mon 22/5/17	Sun 29/10/17						<u> </u>	<del>                                     </del>	
317 Material and shopdrawing submissions	60 days	Mon 22/5/17	Thu 20/7/17						22/5	20/7	
318 Installation work	60 days	Thu 31/8/17	Sun 29/10/17							31/8 29/9	
319 Roller Shutter 320 Metal Railing	30 days	Thu 31/8/17	Fri 29/9/17							31/8 29/9	
320 Metal Railing 321 External and Landscaping works	30 days 108 days	Sat 30/9/17 Sun 13/8/17	Sun 29/10/17 Tue 28/11/17							30,3	
322 Roads and pavings	80 days	Fri 18/8/17	Sun 5/11/17				i i			18/8	1
323 Removal of scaffoldings	11 days	Wed 8/11/17	Sat 18/11/17							8/11	18/11
324 EVA Construction and paving	7 days	Sun 19/11/17	Sat 25/11/17							19/11	25/11
325 Hard Landscaping	33 days	Mon 18/9/17	Fri 20/10/17	l I		;	1 1			·	
326 R.C. Planter	14 days	Mon 18/9/17	Sun 1/10/17	l I			1 1			18/9 1/10	
327 Movable planter	14 days	Mon 25/9/17	Sun 8/10/17							25/9 8/10	
328 Trellises	21 days	Sat 30/9/17	Fri 20/10/17				1 1			30/9 20/10	
329 Benches 330 Soft Landscaping	7 days	Tue 3/10/17	Mon 9/10/17				1 1			3/10 200 9/10	
330   Soft Landscaping   331   Soft Landscaping - Material Submission/ Preparation works	94 days	Sun 27/8/17 Sun 27/8/17	Tue 28/11/17 Sat 23/9/17	1			1 1	I I		27/8 23/9	
332 Soft Landscaping - Material Submission/ Preparation works	28 days 21 days	Wed 4/10/17	Tue 24/10/17	1		1	1 1	I I		4/10 24/10	
333 Soft Landscaping - Plant Delivery	7 days	Wed 25/10/17	Tue 31/10/17	i I	i i		ii			25/10 31/10	
334 Soft Landscaping - Planting works (Plus 12-months Establishment Period)	28 days	Wed 23/10/17 Wed 1/11/17	Tue 28/11/17			į				1/11	28/11
335 Site enclosure and divisions	65 days	Sun 13/8/17	Mon 16/10/17								
336 Construction of fence wal	28 days	Sun 13/8/17	Sat 9/9/17							13/89/9	
337 Installation of metal gates	20 days	Wed 27/9/17	Mon 16/10/17							27/9 16/10	
Builder's works for external services	51 days	Sun 27/8/17	Mon 16/10/17							27/8 16/10	
339 Plumbing Services (see also detail programme for Plumbing trade)	512 days	Tue 15/3/16	Tue 8/8/17		•	i					
Drawing Submission and Approval (details refer to submission schedule)  341 Faujument & Material submission Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16	l I	1/4-1 1/4	31/8	1 1				
Equipment & Material submission Approval (details refer to submission schedule)      Submission / Application of Form WWO 046 (Part I & II)	170 days	Tue 15/3/16	Wed 31/8/16 Mon 3/10/16		13/3	20/7	1 1				
343 G/F to R/F Plumbing Installation	76 days 159 days	Wed 20/7/16 Tue 7/2/17	Sat 15/7/17			1	1 1				
344 G/F Plumbing Installation	60 days	Tue 7/2/17	Fri 7/4/17				1 1	7/2 7/4			
345 UG Plumbing Installation	65 days	Tue 28/2/17	Wed 3/5/17				1 1	28/2	3/5		
346 1/F Plumbing Installation	35 days	Sun 19/3/17	Sat 22/4/17	1		 	1 1	19/3	22/4		
347 2/F Plumbing Installation	45 days	Wed 5/4/17	Fri 19/5/17				1 1		19/5		
348 3/F Plumbing Installation	45 days	Thu 20/4/17	Sat 3/6/17	1			1 1		3/6		
349 4/F Plumbing Installation	40 days	Tue 25/4/17	Sat 3/6/17	1			1 1	25/	3/6		
350 R/F Plumbing Installation 351 Submission of Form WWO 046 (Part IV)	30 days	Thu 15/6/17	Fri 14/7/17				1 1		15/6-	15/7	
351   Submission of Form WWO 046 (Part IV)   352   Handover of All Water Tank & Pump Rooms at UG	1 day	Sat 15/7/17 Wed 15/3/17	Sat 15/7/17 Wed 15/3/17	i I				♦ 15/3		13/	
353 Handover of All Water Tank & Pump Rooms at 2/F	1 day	Tue 25/4/17	Tue 25/4/17	i		į	ii		<b>2</b> 5/4		
354 Testing & Commissioning	30 days	Fri 12/5/17	Sat 10/6/17			į			12/5		
355 WSD Inspection	35 days	Sun 4/6/17	Sat 8/7/17						4/6	8/7	
356 Anticipated Receipt of Form WWO 046 (Part V)	1 day	Mon 31/7/17	Mon 31/7/17							1/7	
357 Obtain Water Certificate	1 day	Tue 8/8/17	Tue 8/8/17							\$ 8/8	
Drainage Services (see also detail programme for Drainage trade)	551 days	Tue 15/3/16	Sat 16/9/17			!				<del>                                     </del>	
Drawing Submission and Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16		1/4% 1/4	127					
Equipment & Material submission Approval (details refer to submission schedule)      Aboveground G/F to UR Drainage Installation	120 days	Tue 15/3/16	Tue 12/7/16		19/3	12/7				<u> </u>	
361   Aboveground G/F to UR Drainage Installation   362   G/F Drainage Installation	173 days	Tue 7/2/17 Tue 7/2/17	Sat 29/7/17 Fri 7/4/17			!		7/2			
363 UG Drainage Installation	60 days 75 days	Sun 7/5/17	Thu 20/7/17	 		 	1 1		7/5	20/7	
364 1/F Drainage Installation	45 days	Mon 22/5/17	Wed 5/7/17	 		 	1 1		22/5	5/7	
365 2/F Drainage Installation	45 days	Mon 12/6/17	Wed 26/7/17		1 I		1 1		12/6	26/7	
366 3/F Drainage Installation	45 days	Thu 15/6/17	Sat 29/7/17				1 1		15/6 <b>)</b>	29/7	
367 4/F Drainage Installation	45 days	Thu 15/6/17	Sat 29/7/17				1 1	l l	15/6	29/7	
368 R/F Drainage Installation	15 days	Thu 15/6/17	Thu 29/6/17			 	1 1		15/6		
369 UR Drainage Installation	15 days	Fri 30/6/17	Fri 14/7/17				1 1		1 1 1 11 116	14/7	
370 Testing & Commissioning	30 days	Fri 12/5/17	Sat 10/6/17	; 		· · · · · · · · · · · · · · · · · · ·	į į		12/5		
371 Underground Drainage  372 Inside Building Installation	355 days	Tue 20/9/16	Sat 9/9/17			20/9		28/3			
<ul> <li>Inside Building Installation</li> <li>Inside Building Drain Test</li> </ul>	190 days	Tue 20/9/16 Wed 21/9/16	Tue 28/3/17 Wed 29/3/17			21/9		29/3			
374 Outside Building Installation (within site boundary)	190 days 60 days	Wed 21/9/16 Sat 13/5/17	Tue 11/7/17				i		13/5	11/7	
375 Outside Building Drain Test (within site boundary)	60 days	Wed 12/7/17	Sat 9/9/17			!				9/9	
376 Excavation Permit Application	65 days	Mon 8/5/17	Tue 11/7/17			!			8/5	11/7	
377 Preparation of Form HBP1	1 day	Fri 30/9/16	Fri 30/9/16			30/9 1 30/9					
						1					
Project: SSD505 - Master Construction Date: Thu 3/11/16 Critical Path Progress	s — N	filestone ◆	Summary	<del></del>							
					Page 6						

hina Road and Bridge Corporation		Re	eprovisio	ning of FEHD Sai Yee Str	Master Construction Programm eet Environmental Hygiene Offices		t at Yen Ming Road (SSD505)	
O Task Name	Duration	Start	Finish	September 2015	February 2016	July 2016	December 2016   11 November   21 January   1 April	May 2017 I 11 June 21 August
78 Submission of Form HBP1	21 days	Sat 1/10/16	Fri 21/10/16	20/9 25/10 29/11 3/1	1 February 11 April 21 June 7/2 13/3 17/4 22/5 26/6	31/7 4/9 9/10 1/10 21/10	13/11 18/12 22/1 26/2 2/4	7/5 11/6 16/7 20/8 24/9 29/10
79 Construction of Terminal Manholes	25 days	Tue 17/1/17	Fri 10/2/17	I I			17/1	
Constitution of Formation Marineses	-					i i		12/7
	14 days	Wed 12/7/17	Tue 25/7/17	I I				10/7
Final Drainage Submission	30 days	Wed 19/7/17	Thu 17/8/17	i i		1 1		19//
DSD Inspection	60 days	Wed 19/7/17	Sat 16/9/17	I I				19/7
Electrical installations (see also detail programme for EL trade)	729 days	Mon 4/1/16	Mon 1/1/18	-				
Drawing Submisssion and Approval (details refer to submission schedule)	267 days	Mon 4/1/16	Mon 26/9/16	4/1		26/9		
Equipment & Material Submisssion and Approval (details refer to submission schedule)	210 days	Tue 1/3/16	Mon 26/9/16	1	1/3	26/9		
Conceal conduit & Builder work for Electrical / ELV System	-							277
	190 days	Sun 25/12/16	Sun 2/7/17	1		1 1 1	7	!
G/F	29 days	Sun 8/1/17	Sun 5/2/17					
UG/F	25 days	Sun 15/1/17	Wed 8/2/17	i i	i i i	1 1 1	15/1 8/2	
1/F	19 days	Sun 22/1/17	Thu 9/2/17	I I				
2/F	19 days	Wed 8/2/17	Sun 26/2/17		į i	1 1 1	8/2 26/2	-
3/F	-	Sat 25/2/17	Wed 15/3/17	I I				
3/F 4/F	19 days			i	į i	i i i	14/2 27/2	
	14 days	Tue 14/3/17	Mon 27/3/17	 				
R/F	21 days	Sun 2/4/17	Sat 22/4/17	i		i ii	2/4 22/4	
G/F to R/F Electrical Installation - First fixing	213 days	Sat 22/4/17	Mon 20/11/17	 				<del></del>
G/F Electrical installation	100 days	Sat 22/4/17	Sun 30/7/17	İ			2014	30/7
UG Electrical installation	100 days	Fri 12/5/17	Sat 19/8/17	I I		1 1 1	12/5	19/8
	-							1/6
Elostical installation	100 days	Thu 1/6/17	Fri 8/9/17	1				0/9
2/F Electrical installation  3/F Electrical Installation	98 days	Mon 26/6/17	Sun 1/10/17	I I				1/10
3/F Electrical Installation	98 days	Fri 21/7/17	Thu 26/10/17	1				21/7
4/F Electrical Installation	90 days	Tue 15/8/17	Sun 12/11/17	I I				15/8
R/F Electrical Installation	73 days	Sat 9/9/17	Mon 20/11/17	1				9,99
	-			I I				
Completion of CLP G/F Tx. Room	1 day	Sat 22/4/17	Sat 22/4/17	!		i ii		
Installation Work of E&M Services & builder's works inside Tx. Room	45 days	Sun 23/4/17	Tue 6/6/17	I I			23/4	6/0
Handover G/F Tx. Room for CLP Installation Work	70 days	Wed 7/6/17	Tue 15/8/17	1	į i	i ii		7/6
CLP Installation Work in Tx. Room	60 days	Wed 16/8/17	Sat 14/10/17					16/8
CLP Inspection & Power Energisation	7 days	Sun 15/10/17	Sat 21/10/17	i		i ii		15/10 21/10
	-			1		1 1		27/10
Electrical matrix (Eighting Fitting Fi	50 days	Fri 27/10/17	Fri 15/12/17	i				
G/F	22 days	Sat 5/8/17	Sat 26/8/17	I I				5/8 26/8
UG/F	22 days	Sat 19/8/17	Sat 9/9/17	I I				19/8
1/F	22 days	Sat 2/9/17	Sat 23/9/17	I I		1 1		2/9 23/9
2/F	22 days	Sat 16/9/17	Sat 7/10/17					16/9 7/10
3/F	22 days	Sat 30/9/17	Sat 21/10/17	1		1 1		30/9 21/10
	-							14/10 4/11
4/F	22 days	Sat 14/10/17	Sat 4/11/17	1		!!!!		
R/F	22 days	Sat 28/10/17	Sat 18/11/17					28/10
Earthing & Lightning System	280 days	Mon 26/9/16	Sun 2/7/17	Ī	i i i	26/9		2/7
Testing & Commissioning (Electrical Installation)	60 days	Fri 3/11/17	Mon 1/1/18					3/11
			Sat 7/10/17	Ī	i i i	1 1 1		30/9 2002 7/10
rao io Latining a Lightning Oyston	8 days	Sat 30/9/17						16/9 16/10
T&C for Megger Test of Power Cable & Wiring	31 days	Sat 16/9/17	Mon 16/10/17	i	į i	1 1 1		
T&C for Distribution Board	30 days	Mon 2/10/17	Tue 31/10/17	I I				2/10 31/10
T&C for Power Management System	30 days	Mon 2/10/17	Tue 31/10/17			i i i		2/10 31/10
T&C for Lighting Fitting & Small Power		Mon 16/10/17	Fri 3/11/17	I I		1 1 1		16/10 3/11
	19 days					1 1 1		10/10
T&C for PV System	22 days	Fri 10/11/17	Fri 1/12/17	1				
LVSB. System	487 days	Fri 15/4/16	Mon 14/8/17	I I				<del></del>
Drawing Submisssion and Approval of LVSB (details refer to submission schedule)	111 days	Fri 13/5/16	Wed 31/8/16	I I	13/5	31/8		
Equipment & Material Submisssion and Approval of LVSB (details refer to submission schedule)	92 days	Fri 15/4/16	Fri 15/7/16		15/4	1 1 1		
Handover LV Switch Room for Flect / LV Sw.Bd.	1 4	Mon 2/1/17	Mon 2/1/17	I I				
	1 day	Mon 2/1/17	Mon 2/1/17	1		1 1 1		
E&M Work inside LV Switch Room	136 days	Mon 16/1/17	Wed 31/5/17					2000 pt/l5
Factory Test for LV Switchboard	26 days	Mon 3/4/17	Fri 28/4/17	i		1 1 1	3/4	-       i
LV Cubicle Switchboard Installation	40 days	Mon 12/6/17	Fri 21/7/17	1				12/6
				İ		1 1 1		24/7 14/8
Site Test for LV Switchboard	22 days	Mon 24/7/17	Mon 14/8/17	1	1	1 1 1		2-7/ 1000000000000000000000000000000000000
Handover 1/F-4/F Sub-S.W. Rm. for Electrical Work	145 days	Sun 1/5/16	Mon 1/5/17		1/5			
Generator	551 days	Mon 1/2/16	Fri 4/8/17	1	<del>•</del>	<del></del>		<del>-  - </del>
	140 days	Thu 14/4/16	Wed 31/8/16	I I	14/4	31/8		
				1/2		i i		-       i
Equipment & Material Submisssion and Approval of Generator (details refer to submission schedule)  Submission Application for EPD (Generator Set System)	151 days	Mon 1/2/16	Thu 30/6/16					
Submission Application for EPD (Generator Set System)	62 days	Mon 22/8/16	Sat 22/10/16	I I		22/8 22/10		
Handover 3/F & R/F Generator Room for Installation Work	14 days	Mon 17/4/17	Sun 30/4/17	I I			17/4 20/4	.
Diesel Generator Installation			Fri 30/6/17	I I				30/6
Diesel Generator Installation	60 days 19 days	Tue 2/5/17 Mon 17/7/17	Fri 4/8/17	I I		1 1 1		17/7 4/8
Site Test for Diesel Generator Installation								

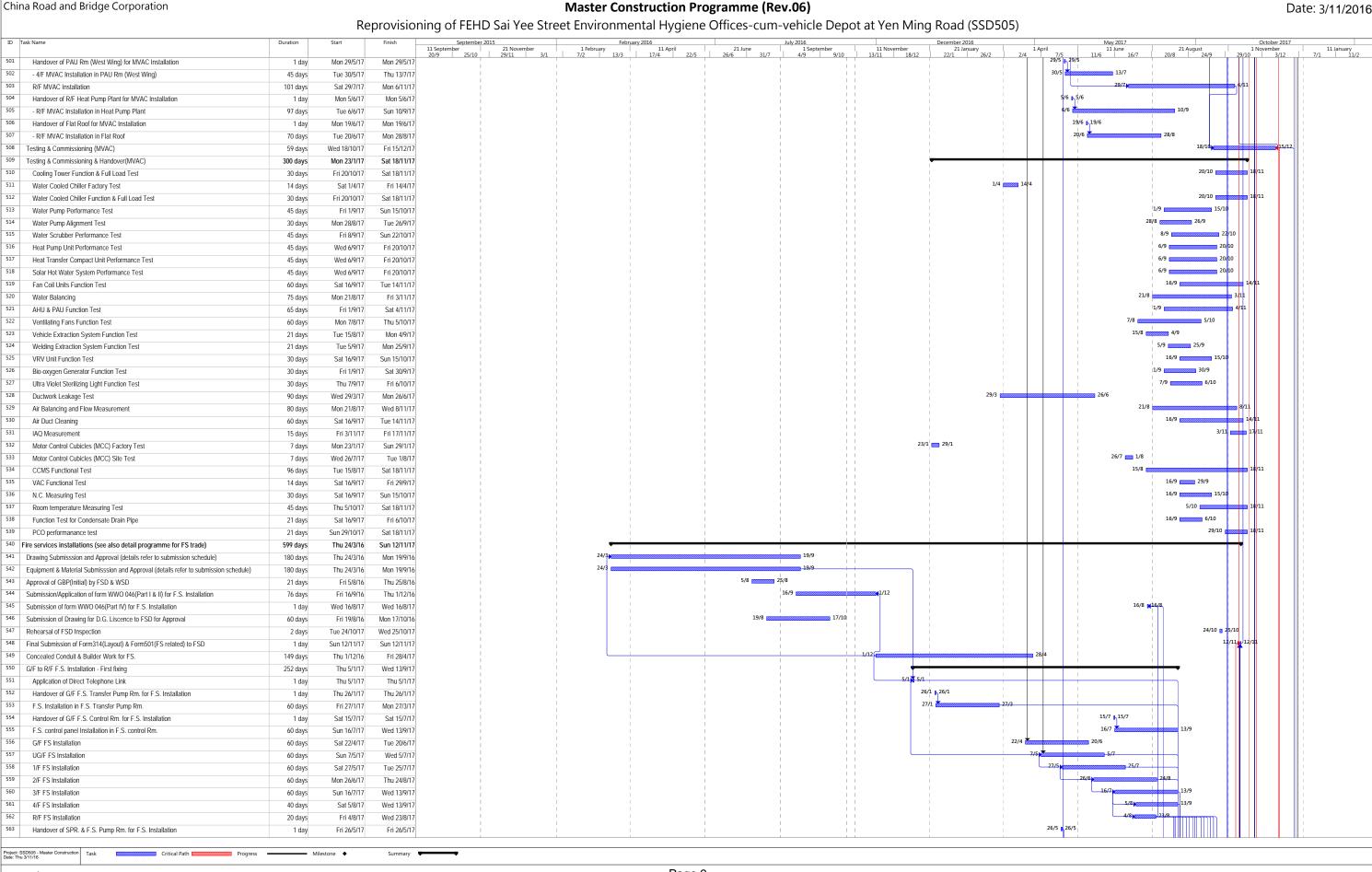
Remarks:

\*Delay in selection of pile for loading test subject to EOT claim

7-13 Feb 2016 and 27 Jan- 2 Feb 2017

China Road and Bridge Corporation					Master Construc	tion Programme	(Rev.06)						-	Date: 3/11/2016
		Re	provisio	ning of FEHD Sai Yee Stre	eet Environmental H	Hygiene Offices-cι	ım-vehicle De	pot at Yen Ming	g Road (SSD50	05)				
ID Task Name	Duration	Start	Finish	September 2015 11 September 21 November	February 2016  1 February 11  7/2 13/3 17/4	1 April 21 June	July 2016	11 November	December 2016 21 January 22/1 26/2	1 April	May 2017 11 June	21 August	October 201 1 November	7 11 January
439 ELV. System	547 days	Fri 13/5/16	Fri 10/11/17	11 September 21 November 20/9 25/10 29/11 3/1	1 February 11 7/2 13/3 17/4	1 April 21 June 22/5 26/6 3	1 September 1/7 4/9 9/1	11 November 10 13/11 18/12	22/1 26/2	2/4	7/5 11/6 1	21 August 5/7 20/8 24/9	29/10 3/12	7/1 11 January 11/2
Drawing Submisssion and Approval of ELV (details refer to submission schedule)	49 days	Fri 13/5/16	Thu 30/6/16	1	13/5	30/6								
441 Broadcast Reception Installation	214 days	Tue 11/4/17	Fri 10/11/17	i I	İ	i I	i			1/4			10/11	
442 Burglar Alarm and Security Installation  443 Audio Electronic Installation	214 days	Tue 11/4/17	Fri 10/11/17		İ	i I	i			1/4			10/11	
443         Audio Electronic Installation           444         T&C for CABD System	214 days 75 days	Tue 11/4/17 Mon 28/8/17	Fri 10/11/17 Fri 10/11/17	i		i I	i			1/4		28/8	10/11	i
445 T&C for CCTV System	75 days	Mon 28/8/17	Fri 10/11/17		i I	i I	i	1 1				28/8	10/11	i
446 T&C for PA System	75 days	Mon 28/8/17	Fri 10/11/17	 		1	I I	1 1				28/8	10/11	1
T&C for Watchman Tour System	75 days	Mon 28/8/17	Fri 10/11/17	 		[ [	I I	1 1				28/8	10/11	1
448 T&C for Smart Card System	75 days	Mon 28/8/17	Fri 10/11/17	 	 	 	I I	1 1				28/8	10/11	
449 T&C for Induction Loop	75 days	Mon 28/8/17	Fri 10/11/17	 	 	 	I I	1 1				28/8	10/11	1
450 T&C for energy management system 451 Mechanical Ventilation and Air conditioning installations (see also detail programme for	75 days	Mon 28/8/17	Fri 10/11/17	 			1	1 1				28/8	10/11	1
MVAC trade)	680 days	Fri 5/2/16	Fri 15/12/17	 				1 1				I I		
Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Wed 11/5/16	Sun 6/11/16		11/5			6/11						
453 Equipment & Material Submisssion and Approval (details refer to submission schedule)	180 days	Fri 5/2/16	Tue 2/8/16	5/:	!	2/8						1		
454 Major MVAC Material Delivery  455 Cooling Tower	233 days	Thu 10/11/16	Fri 30/6/17						24/2		30/6			
455         Cooling Tower           456         Water Cooled Chiller	127 days 160 days	Fri 24/2/17 Fri 18/11/16	Fri 30/6/17 Wed 26/4/17				į	18/11		26/4				
457 Water Scrubber	145 days	Sat 10/12/16	Wed 3/5/17	i I			i	10/12		3/5		į		
458 Heat Pump Unit	145 days	Sat 4/2/17	Wed 28/6/17	i I		i I	i I	1 1	4/2		28/6	i		
459 Heat Transfer Compact Unit	145 days	Sat 4/2/17	Wed 28/6/17		i	i I	i	1 1	4/2		28/6	İ		i
460 Water Calorifier	145 days	Sat 4/2/17	Wed 28/6/17			i I	i	20/12	4/2	- 2/4	28/6			
461 Water Pump 462 MCC	105 days	Tue 20/12/16 Fri 2/12/16	Mon 3/4/17 Sat 15/4/17					2/12		15/4				
463 Flat type Solar Collector	135 days 130 days	Tue 31/1/17	Fri 9/6/17	 	1	1	I I	1 1	31/1		9/6			1
464 Flat Plat type Solar Collector	130 days	Tue 31/1/17	Fri 9/6/17	 	1	1	I I	1 1	31/1		9/6			1
Vehicle Exhaust Extraction System	120 days	Thu 10/11/16	Thu 9/3/17	1		[ [	1	0/11	9/3			1		1
466 Welding Exhaust System	120 days	Thu 10/11/16	Thu 9/3/17	I I		 	1	0/11	9/3			I I		
467 Automatic Condenser Tube Cleaning System	105 days	Tue 22/11/16	Mon 6/3/17	I I	1	 	10/10	22/11	6/3			I I		1
468 Submission & Approval of AC Layout(Initial) by WSD 469 Submission/Application of form WWO 046(Part I & II) for Cooling Tower Installation	22 days	Wed 19/10/16	Thu 10/11/16 Thu 26/1/17	I I	1	I I		0/11	426/1			I I		1
470 Submission of form WWO 046(Part IV) for Cooling Tower Installation	77 days 1 day	Thu 10/11/16 Sat 16/9/17	Sat 16/9/17	I I	1	 		7'  -				16/9 16/9		1
471 Submission of CT1B & CT4 to EMSD for Cooling Tower Installation	1 day	Wed 28/9/16	Wed 28/9/16	I I	1	 	   28/9 <mark>≱⊫</mark> 28/9	1 1				<b>†</b>		1
472 Submission of CT2B to EMSD for Cooling Tower Installation	1 day	Sun 8/10/17	Sun 8/10/17	I I	1	 	I I	1 1				8/10 8/1	0	1
473 Submission of VAC Drawing(Initial) to FSD	47 days	Fri 30/9/16	Tue 15/11/16	I I	1	 	30/9	15/11				1		1
Final Submission of VAC form 501 for MVAC Installation	1 day	Wed 15/11/17	Wed 15/11/17	I I		 	1					1	15/11 15/11	
475 Conceal Conduit & Builder Work for MVAC  476 G/F to R/F MVAC Installation	190 days	Thu 26/1/17	Thu 3/8/17	I I			1		/ <b>1</b>			3/8		
477 G/F MVAC Installation	285 days 90 days	Tue 31/1/17 Sat 22/4/17	Sat 11/11/17 Thu 20/7/17	I I		 	1	1 1		22/4	20/	7		
478 UG/F MVAC Installation	120 days	Fri 31/3/17	Fri 28/7/17				1		31/3			28/7		
Handover of UG/F Chiller Plant for MVAC Installation	1 day	Tue 31/1/17	Tue 31/1/17						31/1 31/1					
- UG/F MVAC Installation in Chiller Plant	90 days	Sun 7/5/17	Fri 4/8/17							7/5		4/8		
481 Handover of UG/F AHU Rm for MVAC Installation	1 day	Sun 7/5/17	Sun 7/5/17					1 1		7/5 7/5	alsc			
482 - UG/F MVAC Installation in AHU Rm  483 Handover of LIG/F Water Pump Rm for MVAC Installation	28 days	Mon 8/5/17	Sun 4/6/17					1 1 1 1 1 1 1 1		8/5 <b>7</b> //5 <b>7</b> 7/5	4/0			
483 Handover of UG/F Water Pump Rm. for MVAC Installation 484 - UG/F MVAC Installation in Water Pump Rm.	1 day 80 days	Sun 7/5/17 Mon 8/5/17	Sun 7/5/17 Wed 26/7/17							8/5	2	26/7		
485 Handover of UG/F Exhaust Air Fan Rm. for MVAC Installation	1 day	Sun 7/5/17	Sun 7/5/17			1				7/5 7/5				
486 - UG/F MVAC Installation in Exhaust Air Fan Rm.	60 days	Mon 8/5/17	Thu 6/7/17			1				8/5	6/7			
487 Handover of UG/F MCC Rm. for MVAC Installation	1 day	Sun 7/5/17	Sun 7/5/17							7/5 77/5	•			
488 - UG/F MVAC Installation in MCC Rm.	83 days	Mon 8/5/17	Sat 29/7/17							8/5	<b>X</b>	29/7		
489 Handover of G/F Vehicle Washing Bay for MVAC Installation	1 day	Mon 22/5/17	Mon 22/5/17	1			i		i	22/5	5 22/5			
490 - G/F MVAC Installation in Vehicle Washing Bay  491 1/F MVAC Installation	39 days 60 days	Tue 23/5/17 Mon 10/4/17	Fri 30/6/17 Thu 8/6/17	i I			i		10	0/4	8/6			
492 2/F MVAC Installation	75 days	Mon 12/6/17	Fri 25/8/17	i		i I	i	1 1	i		12/6	25/8		
493 3/F MVAC Installation	90 days	Tue 27/6/17	Sun 24/9/17	i i		· 				4	27/6	24/9		
494 Handover of 3/F PAU Rm (West Wing) for MVAC Installation	1 day	Mon 1/5/17	Mon 1/5/17	i I			i		1	1/5 1/5				
495 - 3/F MVAC Installation in PAU Rm (West Wing)	60 days	Tue 2/5/17	Fri 30/6/17	i I		i I	i		1	2/5	30/6			
496 Handover of 3/F PAU Rm (East Wing) for MVAC Installation	1 day	Wed 3/5/17	Wed 3/5/17	i I		i I	i I			3/5 13/5	35.55			
497 - 3/F MVAC Installation in PAU Rm (East Wing)  498 4/F MVAC Installation	60 days	Thu 27/4/17	Sun 25/6/17	i I						21/4	25/6	i	11/1	
498 4/F MVAC Installation 499 Handover of Cooling Tower Plant for MVAC Installation	115 days 1 day	Thu 20/7/17 Mon 22/5/17	Sat 11/11/17 Mon 22/5/17	i I			i		1	22/5	5 1, 22/5			
500 - 4/F MVAC Installation in Cooling Tower Plant	101 days	Tue 23/5/17	Thu 31/8/17	i I				1 1		23/	5	31/8		
				ı										
Project: SSD505 - Master Construction Date: Thu 3/11/16 Critical Path Progress —	N	Milestone •	Summary	<del></del>										
De considera						Page 8								

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China Road and Bridge Corporation Master Construction Programme (Rev.06) Date: 3/11/2016 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) 
 February 2016
 July 2016
 December 2016

 1 February
 11 April
 21 June
 1 September
 11 November
 21 January

 7/2
 13/3
 17/4
 22/5
 26/6
 31/7
 4/9
 9/10
 13/11
 18/12
 22/1
 26/2
 ID Task Name F.S. Installation in SPR. & F.S. Pump Rm. 99 days 565 F.S. Final fixing 38 days Thu 14/9/17 Sat 21/10/17 566 Water Authority inspections for FS Installation Thu 31/8/17 Thu 31/8/17 1 day FS inspection for DG Stores (1st) 7 days Tue 26/9/17 Mon 2/10/17 568 FS inspection for DG Stores (2nd) 7 days Tue 3/10/17 Mon 9/10/17 569 Obtained DG. Licence Tue 10/10/17 7 days 570 Testing & Commissioning (FS) 42 days Tue 12/9/17 Mon 23/10/17 571 Hydraulic Test for Pipework 19 days Tue 12/9/17 Sat 30/9/17 572 G/F & UG/F 4 days Tue 12/9/17 Fri 15/9/17 573 16/9 18/9 1/F Sat 16/9/17 Mon 18/9/17 3 days 574 19/9 21/9 3 days Thu 21/9/17 575 3/F 3 days Fri 22/9/17 Sun 24/9/17 576 25/9 77/9 4/F 3 days Mon 25/9/17 Wed 27/9/17 577 R/F Thu 28/9/17 Sat 30/9/17 578 Equipment Performance Test 19 days Mon 2/10/17 Fri 20/10/17 579 G/F & UG/F 4 days Mon 2/10/17 Thu 5/10/17 580 1/F 3 days Fri 6/10/17 Sun 8/10/17 581 9/10 11/10 3 days Mon 9/10/17 Wed 11/10/17 582 3/F 3 days Thu 12/10/17 Sat 14/10/17 583 15/10 17/1 4/F 3 days Sun 15/10/17 Tue 17/10/17 584 18/10 20/ R/F 3 days Fri 20/10/17 Interfacing test with AC/EE/Lift/Fire Shutter etc 3 days Sat 21/10/17 Mon 23/10/17 586 Mechanical handling and lifting installation Wed 31/8/16 Sun 10/9/17 376 days Drawing Submisssion and Approval (details refer to submission schedule) 45 days Wed 31/8/16 Fri 14/10/16 588 Equipment & Material Submisssion and Approval (details refer to submission schedule) 60 days Wed 31/8/16 Sat 29/10/16 589 Gondola system 145 days Sat 15/4/17 Wed 6/9/17 590 Cast-in bolt 14 days Sat 15/4/17 Fri 28/4/17 591 Guide rail installation 40 days Sat 29/4/17 Wed 7/6/17 592 Gondola system installation 40 days Thu 8/6/17 Mon 17/7/17 593 T&C for gondola 7 davs Thu 31/8/17 Wed 6/9/17 594 Scissor platform 57 days Sun 16/7/17 Sun 10/9/17 Sun 3/9/17 Installation 50 days Sun 16/7/17 596 4/9 📥 10/9 T&C for scissor platform 7 days Mon 4/9/17 Sun 10/9/17 597 Lift (by Nominated Subcontractor) 581 days Wed 13/4/16 Tue 14/11/17 13/4 13/4 1 day Wed 13/4/16 Wed 13/4/16 Nomination of lift subcontractor Drawing Submisssion and Approval (details refer to submission schedule) 46 days Tue 30/8/16 Fri 14/10/16 14/10 600 Manufacturing & Shipment 181 days Sat 1/10/16 Thu 30/3/17 601 Equipment & Material Submisssion and Approval (details refer to submission schedule) 60 days Wed 5/10/16 5/10 Handover of lift shafts and machine rooms to NSC (240 days before completion) 0 days Wed 10/5/17 Wed 10/5/17 Installation, T&C (Details subject to NSC's programme) 149 days Thu 1/6/17 Fri 27/10/17 604 Submission of Form 5 1 day Fri 25/8/17 Fri 25/8/17 Statutory inspections and obtain lift certificate Tue 14/11/17 31 days Sun 15/10/17 606 Lift certificate Obtained (L3, Fireman's Lift) 15/10 .... 14 days Sat 28/10/17 14 days Lift certificate Obtained (L4 Fireman's Lift) Sun 15/10/17 Sat 28/10/17 608 15/10 Lift certificate Obtained (L6, Fireman's Lift) 14 days Sun 15/10/17 Sat 28/10/17 Lift certificate Obtained (L5, Fireman's Lift) 14 days Sun 15/10/17 Sat 28/10/17 610 Lift certificate Obtained (L1, L2) 14 days Wed 1/11/17 Tue 14/11/17 611 Beam Plus - FA Submission Beam Plus - IEQ 6, 7 and WUP1 7 days Mon 11/12/17 Sun 17/12/17 FSD inspection and Issuance of Certificate (After SCCU Inspection) 21 days Sun 26/11/17 Sat 16/12/17 614 FSD inspection (1st) 7 days Sun 26/11/17 Sat 2/12/17 615 FSD inspection (2nd) 7 days Sun 3/12/17 Sat 9/12/17 10/12 616 Obtained FS certificate Sun 10/12/17 Sat 16/12/17 7 days Coordination & grant access to EMSD's contractor for installation of equipment 50 days Wed 8/11/17 Wed 27/12/17 618 SCCU Pre-inspection 25 days Mon 6/11/17 Thu 30/11/17 619 SCCU Inspection 14 days Sun 17/12/17 Sat 30/12/17 620 General inspection with FEHD/ArchSD/S.O. Thu 30/11/17 Wed 27/12/17 28 days 621 General cleaning Sun 31/12/17 Thu 4/1/18 622 Practical completion 0 days Thu 4/1/18 Thu 4/1/18 623 Handover of works 0 days Thu 4/1/18 Project: SSD505 - Master Construction Task Date: Thu 3/11/16 Critical Path

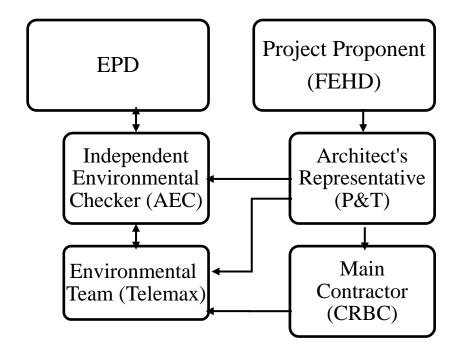
Remarks:

\*Delay in selection of pile for loading test subject to EOT claim 7-13 Feb 2016 and 27 Jan- 2 Feb 2017



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### **Appendix B** Organization Chart



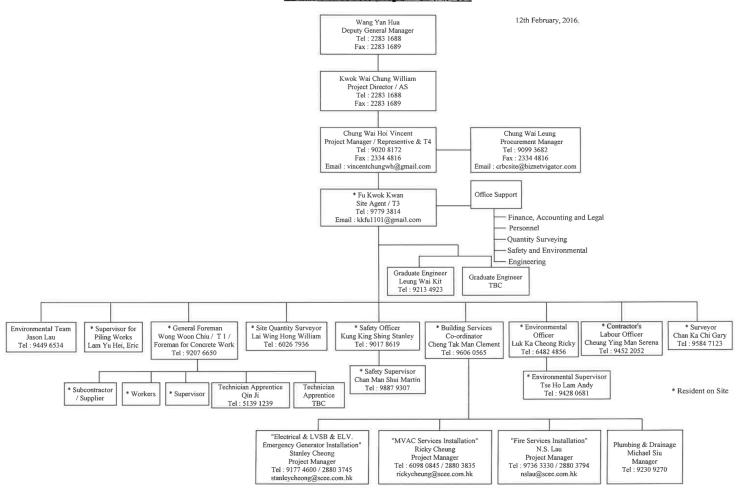


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#### Organization Chart for EPD Submission

Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area Contract No.: SS D505 (Programme No. 182GK)





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### Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

### **Air Quality – Schedule of Recommended Mitigation Measures**

				Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Air	Quality (Construction)					
•	Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	All areas	✓			
•	Use of frequent watering for particularly dusty construction areas close to ASRs	All areas	✓			
•	Side enclosure and covering of any practicable owing to frequent usage, watering should be applied to aggregate fines;	All areas	✓			
•	Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage piles near ASRs;	All areas	✓			
•	Tarpaulin covering of all dust vehicle loads transported to, from and between site locations;	All areas				✓
•	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;	All areas	✓			
•	Imposition of speed controls for vehicle son unpaved site roads. 8 km/hr is the recommended limit;	All areas	✓			
•	Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs;	All areas	✓			
•	Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA), if applicable, should be covered entirely buy impervious sheeting or placed in an area sheltered on the top and the 3-sides; and	All areas				✓
•	Loading, unloading, transfer, handling or storage of large amount of cement or dry PFA should be carried out in a totally enclosed system or facility, and nay vent or exhaust should be fitted with the an effective fabric filter or equivalent air pollution control system.	All areas				✓
•	3-sides enclosed washing bays and maintenance workshops, served with mechanical ventilations to maintain all the time with proper negative air pressure.	Washing bays & maintenance workshops				<b>√</b>
•	Deodorization system such as active carbon filters or chemical scrubber (or equivalent) will be applied at the ventilation duct prior to discharging to the atmosphere, having odor removal efficiency of 85% or above at normal operation, and under regular and proper maintenance and replacement.	Washing bays & maintenance workshops				<b>√</b>
•	Commissioning test requirement should be incorporated in the specification during commissioning period order to ensure the odor removal efficiency (at least 85%) of the proposed odor removal unit.	Washing bays & maintenance workshops				1
•	Monitoring test on odor removal efficiency of the odor removal unit should be carried out quarterly in the first year of operation. Development of monitoring and investigation plan, as well as work procedure, prior to operation of the unit is recommended.	Washing bays & maintenance workshops				<b>√</b>



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### **Noise – Schedule of Recommended Mitigation Measures**

		T 4*	Implementation Status					
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable		
•	Carefully arrange the timing and sequencing of the various construction activities according to the actual site work situation;	All areas	<b>✓</b>					
•	Limit the quantity of PME to be operated concurrently and their proportion of usage were recommended in the Project and incorporated in the Noise Impact Assessment;	All areas	✓					
•	The proposed quantity of PMEs and their proportion of usage should be confirmed feasible by the Engineer;	All areas	✓					
•	In the case during school examination, more stringent construction noise criteria should be imposed, the potentially most disruptive construction activities should be avoided, and arranged to be conducted during school holidays as far as practicable.	All areas	✓					
•	The use of Sound Power Levels (SWLs) for typical PME provided in the GWTM and that for equivalent "quiet" plants:  Loader, wheeled (Back-hoe)Excavator, Tracked Generator  Mobile Crane	All areas	<b>✓</b>					
,	The use of temporary noise barriers if applicable:  Movable barriers with skid footing and a small cantilevered upper portion  Noise jacket/muffler  Applicable PME with temporary noise barriers: excavator and mobile crane  Selection of insulation material: acoustic mats	All areas	<b>✓</b>					
•	The use of temporary noise barriers if applicable  Movable barriers with skid footing and a small cantilevered upper portion  Noise jacket/muffler  Applicable PME with temporary noise barriers: excavator and mobile crane  Selection of insulation material: acoustic mats	All areas	<b>✓</b>					
•	Only well-maintained plant should be operated on-site and plants should be operated on-site and plants should be serviced regularly during the construction period;	All areas	✓					
•	Mobile plant, if any, should be sited as gar from NSRs as possible;	All areas	✓					
•	Plant known to emit noise strongly in one direction should, wherever possible, be properly oriented so that the noise is directed away from the nearby NSRs;	All areas	✓					
•	Use of site hoarding as a noise barrier to screen noise at low level NSRs;	All areas	✓					
•	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum;	All areas	✓					
•	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities	All areas	✓					
•	The Workshop Vehicle Repair Activities should be carried out under the covered area of the Transport Workshop Section on the G/F as the building of FEHD Depot itself provides screening effect to the NSRs	Transport Workshop Section				✓		
•	The workshop vehicle repair activities should not be carried out during night-time period	Transport Workshop Section				✓		
•	Acoustic treatment, such as acoustic louvres, silencers, enclosures could be applied to achieve noise attenuation on the use of MVAC and other Building Service Equipment so that the SWL of the equipment shall not exceed the specified "maximum allowable SWL" in various plant rooms.	Transport Workshop Section				✓		



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### Water Quality – Schedule of Recommended Mitigation Measures

		T (*		Implementation Status				
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable		
Wat	er Quality and Sewerage							
•	At the establishment of works site, perimeter cut-off drains to direct offsite water around the Site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels) both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction;	All areas	<b>√</b>					
•	Dikes or embankments for flood protection should be implemented around the boundaries of earthworks areas. Temporary ditches should be provided to facilitate the run-off discharge into an appropriate watercourse, through a silt / sediment trap. Silt / sediment traps should also be incorporated in the permanent drainage channels to enhance deposition rates;	All areas	<b>√</b>					
•	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN $1/94$ , which states that the retention time for silt / sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of $0.1 \text{m}^3/\text{s}$ , a sedimentation basin of $30 \text{m}^3$ would be required and for a flow rate of $0.5 \text{m}^3/\text{s}$ the basin would be $150 \text{m}^3$ . The detailed design of the sand / silt traps should be undertaken by the Contractor prior to the commencement of construction;	All areas				✓		
•	The construction works should be programmed to minimize surface excavation works during rainy seasons (April to September), as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;	All areas				✓		
•	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;	All areas	<b>√</b>					
•	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;	All areas	✓					
•	Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;	All areas	<b>✓</b>					
•	All open stockpiles of construction materials (for example, aggregates, sand and fill material should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silts or debris into any drainage system;	All areas	<b>✓</b>					
•	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm run-off being directed into foul sewers;	All areas	✓					
•	Precautions to be taken at any time of the year when rainstorms are likely actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface run-off during storm events;	All areas	<b>✓</b>					
•	All vehicles and plant should be cleaned before leaving the Site to ensure no earth, mud, debris and the like is	All areas	✓					

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	deposited by them on roads.				
•	Oil interceptors should be provided in the drainage system downstream of any oil / fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to percent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;	All areas	✓		
•	Oil interceptors should be provided in the drainage system downstream of any oil / fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to percent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;	All areas	✓		
•	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to percent spilled fuel oils from reaching the nearby WSRs.	All areas	✓		
•	Application to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license.	All areas	✓		
•	All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the Technical Memorandum.	All areas	✓		
•	Minimum distance of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes.	All areas	✓		
•	No new effluent discharges in nearby typhoon shelters should be allowed.	All areas	✓		
•	The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., would minimise water consumption and reduce the effluent discharge volume.	All areas	✓		
•	Portable chemical toilets and sewage holding tanks are recommended for the handling of the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	All areas	✓		
•	Any maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	All areas	✓		
•	All sewage arising from the Project should be collected and diverted to the public sewerage system via proper connections to minimise water quality impact from the operation of the Project and ensure compliance with Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water under the WPCO.	The Office- cum-Vehicle Depot			<b>✓</b>
•	To prevent the potential contaminated wastewater from entering the existing public sewerage systems, run-offs from the covered areas including the vehicle washing bays and vehicle parking space will be properly treated prior to the discharge into the sewerage system. The treated effluent for discharging into the public sewerage system should comply with the effluent standards as stated in the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters under the WPCO.	cum-Vehicle Depot			<b>✓</b>
•	There is a need to apply to the EPD for a discharge licence for discharge of the operational effluent from the Project under the WPCO. The discharge quality must meet the requirements specified in the discharge licence.	The Office- cum-Vehicle Depot			✓



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### Waste – Schedule of Recommended Mitigation Measures

			Implementation Status				
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable	
Wast	e Management and Land Contamination						
•	The requirements as stipulated in the ETWB TC(W) No. 19/2005 "Environmental Management on Construction Sites" and the other relevant guidelines should be included in the Particular Specification for the Contractor as appropriate.  Contractor should be required to implement the recommended waste management measures through establishing a Waste Management Plan (WMP) in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should be submitted to the Project/Site Engineer prior to the construction commencement of the Project for approval and include the followings:  Waste management policy;  Record of generated waste;  Waste reduction target;  Waste reduction programme;  Role and responsibility of waste management team;  Benefit of waste management;  Analysis of waste materials;  Reuse, recycling and disposal plans;  Transportation process of waste products; and  Monitoring and action plan.  The waste management hierarchy below should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (location) should be properly documented	All areas	*				
•	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D Materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage. The Contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	All areas	*				
•	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future Contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	All areas	✓				
•	All waste containers shall be in a secure area on hardstanding.	All areas	✓				
•	Training of site personnel in, site cleanliness, proper waste management and chemical handling procedures.	All areas	✓				
•	Provision of sufficient waste disposal points and regular collection of waste.	All areas	✓				
•	Appropriate of sufficient waste disposal points and regular collection of waste by either covering trucks or by transporting wastes in enclosed containers.	All areas	✓				
•	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	All areas	✓				
•	Separation of chemical wastes for special handling and appropriate treatment.	All areas	✓				
•	The site and surroundings shall be kept tidy and litter free.	All areas	✓				



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•	No waste shall be burnt on-site	All areas	✓		
•	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	All areas	✓		
•	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas	✓		
•	Sorting of demolition debris and excavated materials from demolition works to recover reusable/recyclable	A 11	✓		
	portions (i.e. soil, broken concrete, metal etc.).	All areas	•		
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or	All areas	✓		
	recycling of materials and their proper disposal.	All areas	•		
•	Encourage collection of aluminum cans by providing separate labeled buns to enable this waste to be segregated	A 11	✓		
	from other general refuse generated by the workforce.	All areas	•		
•	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	All areas	✓		
•	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary	All areas	✓		
	generation of waste.	All areas	•		
•	Waste haulier must hold a valid permit for the collection of waste as stipulated in their permits, Removal of waste	All areas	✓		
	should be done in a timely manner.	All areas	•		
•	Register as a Chemical Waste Producers to the EPD	All areas	✓		
•	Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;	All areas	✓		
•	Having a capacity of <450L unless the specifications have been approved by the EPD;	All areas	✓		
•	Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the	All areas	✓		
	Regulations;	All areas	•		
•	Clearly labelled and used solely for the storage of chemical wastes;	All areas	✓		
•	Enclosed with at least 3 sides;	All areas	✓		
•	Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container of 20%		✓		
	by volume of the chemical waste stored in the area, whichever is greatest;	All areas	•		
•	Adequate ventilation;	All areas	✓		
•	Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of		✓		
	as chemical waste, if necessary);	All areas	•		
•	Incompatible materials are adequately separated.	All areas	✓		
•	Adequate numbers of portable toilet should be provide for on-site workers. Portable toilets should be maintained				
	in reasonable states, which will not deter the workers from utilizing them. Night soil should be regularly collected	All areas	✓		
	by licensed collectors.				
		The Office-			<b>√</b>
•	The requirements stipulated in the Code of Practice on the Packaging. Labelling and Storage of Chemical Wastes	cum-Vehicle			,
	should be followed in handling of chemical waste as in construction phase.	Depot			
-					
•	A trip-ticket system should be operated in accordance with the Waste Disposal (Chemical Waste) (General)				✓
	Regulation to monitor all movements of chemical wastes which would be collected by a licensed collector to a				
	licensed facility for final treatment and disposal.	Depot			
•	The recommendations proposed for the mitigation of impacts from chemical waste in construction phase should	The Office-			✓
	also be followed.	cum-Vehicle			
		Depot			



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•	Provide recycling bins at designated areas for proper recycling of papers, aluminum cans and plastics bottles	The Office- cum-Vehicle Depot	<b>✓</b>
•	Separation from other waste types and collected by licensed collectors at daily basis to minimize the potential impacts from odour and vermin.	The Office- cum-Vehicle Depot	<b>✓</b>
•	Storage of Chemicals and Chemical Wastes	The Office- cum-Vehicle Depot	<b>✓</b>
•	Emergency Procedures	The Office- cum-Vehicle Depot	<b>✓</b>
•	Spillage/leakage of Liquid Chemical/Waste at Storage Area	The Office- cum-Vehicle Depot	<b>✓</b>
•	Spillage/Leakage at Repairing and Maintenance Areas	The Office- cum-Vehicle Depot	<b>√</b>
•	Record of Incidents	The Office- cum-Vehicle Depot	<b>√</b>
•	Procedures for Disposal of Wastes	The Office- cum-Vehicle Depot	<b>✓</b>

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	Environmental Protection Magazines			Implementation Status			
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable	
Land	scape and Visual						
•	Cautiously arrangement of the operation or placement of the construction plant and machinery, and the transportation or storage of material to reduce and confined the potential adverse impacts in certain areas in the Site	All areas	~				
•	Minimise the height of temporary structures such as hoardings and site offices, and restore the temporary construction site locally to the existing condition in order to minimise any negative impacts and associated uncomfortable views.	All areas	<b>✓</b>				
•	Check the site boundaries regularly to ensure the working area does not exceed and causes further damage to the surrounding area.	All areas	✓				
•	In case of nighttime construction is conducted, control of nighttime lighting on the works areas to prevent undesired light pollution to the surrounding area, such as viewers from roads, should be implemented.	All areas				<b>✓</b>	
•	Provision of temporary landscape treatment during construction phase, such as temporary planting around the site office, applying aesthetic treatments on site hoardings and/or façade of site office	All areas	✓				
•	Provision of green roof of site office	All areas	✓				
•	Erection of fencing around the trees	All areas	✓				
•	Avoidance of placing any construction materials close to the trees	All areas	✓				
•	Apply mulching beyond root collar	All areas	✓				
•	Conduct visual checking/monitoring in regular basis	All areas	✓				
•	Proper arrangement of materials for operational activities, including vehicle repair, maintenance, operation and parking, carried out within the office-cumvehicle depot building.	All areas				✓	

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### **Retain Tree Survey**



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#### **Appendix D** Calibration Certificates



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中 国 航 空 工 业 深 圳 特 区 计 量 测 试 站
SHENZHEN METROLOGY & MEASUREMENT STATION OF CHINA AVIATION INDUSTRY
国防科技工业第一计量测试研究中心深圳计量检测站
SHENZHEN METROLOGY & MEASUREMENT STATION OF CIMM



# 校准证书

#### CALIBRATION CERTIFICATE

证 书 编 Certificate	号 No.	LX16018319156		L X16018319156	
委 托 单 Client	位	上峰检测认证有限公司			
地 Address	址	香港新界荃湾沙咀道66A-	号豪力中心19楼1905	室	
器 具 名 Description		声级计/Sound Level Met	ers		
器 具 用 Usage	途	/			
规格型 Model/Type	号	AWA5661			
制 造 单 Manufacture	位 er	杭州爱华			
器 具 编 Serial No.	7	304042			
结 Conclusion	论	见校准结果/Calibration	ı		
			批 准 Approved	人 码法况	邵浊沉
(iE	书专用章)		审 核 Checked b	-	刘克先
			校 准 Calibrate	员 召戏况	邵浊沉
委 托 Receive 校 准 Calibrati	日期	2016 年 08 月 Year Mor 2016 年 08 月 Year Mor	th Day	ZH1603478-001	I

计量校准机构备案号: [2013]粤量校S007号

地址: 广东省深圳市福田区车公庙泰然四路劲松大厦9A、1B、105A

ADD: 9A-1B-105A, Jingsong Building, Tairan 4th Road, Chegongmiao, Futian District, Shenzhen, Guangdong, China 电话(TEL): 0755-83890620 83890591 传真(FAX): 0755-83890704 邮政编码(POST NO.): 518040 网址: http://www.szcatci.com E-mail: market@szcatci.com a83890591@126.com

第1页 共5页 Page 1 of 5

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



深圳中航技术检测所 证书编号: LX16018319156

#### 说 明

#### Directions

1. 深圳中航技术检测所是国家法定计量检定机构, 其管理体系按照JJF 1069-2012法定计量机构考核规范、 ISO/IEC 17025:2005和CNAS相关要求运行。The laboratory is the Service of Legal Metrological Verification. The laboratory has implemented management system in accordance with JJF 1069-2012 Rules for the Examination of the Service of Legal Metrological Verification, ISO/IEC 17025:2005 and CNAS related requirements.

2. 本次测量结果仅对被测件有效,所出具的数据均可溯源到国家或国际计量基准。

The measurement results relate only to the unit under test. All data issued by the laboratory are traceable to the national or international primary standards of measurement.

 测量结果所除述的测量不确定度为包含因子k=2的扩展不确定度,当不报告测量不确定度时,表示测量标准的 不确定度小于被测量误差极限的1/3。

The uncertainty reported in this document is the expanded uncertainty with a coverage factor k=2, when no uncertainty reported, the test uncertainty ratio (TUR) is less 1/3.

4. 测量结果未给出与被测件运输、使用等有关的不确定度;如需要,由用户考虑。

The quoted uncertainty does not include the uncertainty introduced by use and transport of the calibrated items.

5. 未经本所书面批准,不得部分复制此证书。

This certificate shall not be reproduced without the written approval of the issuing laboratory except in full.

6. 对本次测量若有异议,委托方应于收到被测件之日起十五日内向本所提出。

If there is any objection concerning the measurement, the client should inform the issuing laboratory within 15 days from the date of the unit under test return to the client.

7. 本次测量的技术依据(Reference documents for the measurement):

JJG188-2002《声级计检定规程》JJG188-2002《V.R. of Sound Level Meters》

地点及环境条件(Place and environmental condition):

地点(Place) 温度(Temperature) 相对湿度 (Relative Humidity) 本所/Lab 22.0 °C 60 %

9. 本次测量所使用的主要计量标准器具(Major standards of measurement used in the measurement):

器具名称 Description	编号 Serial No.	有效期 Due Date	计量特性 Metrological Characteristic
可变阻抗衰减 器	230060	2017-3-31	U=0.20dB (k=2)
AUDIO CALIBRATOR声 校准器	2292007	2016-11-4	1級
MICROHPONE传 声器	2172118	2016-11-4	U=0.3dB (k=2)
函数信号发生 器	430778	2016-11-30	MPE: ±5E-6
猝发音发生器	123249	2017-5-9	频率MPE: ±0.1% 衰减MPE: ±0.4dB
测量放大器	089867	2016-12-29	/

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### 深圳中航技术检测所

证书编号/Certificate NO.: LX16004264156

- 1、外观及功能正常性检查/Appearance and function check: 正常/Pass。
- 2、声级计指示声级/Level Calibration:

校准前示值/Indication before Calibrated: 94.0dB 校准后示值/Indication After Adjusted: 94.0dB

3、频率计权/Frequency weightings:

标称频率	允许下限	A计权	允许上限
Nominal frequency	Lower Limit	A-weighting	Upper Limit
(Hz)	(dB)	(dB)	(dB)
31. 5	-42.9	-39. 6	-35. 9
63	-28. 7	-27. <b>0</b>	-23. 7
125	-18. 1	-16. 2	-14. 1
250	-10.5	-9. 0	-6. 7
500	-5. 1	-4. 1	-1. 3
1000 (ref.)	<b>-1</b> . 4	0.0	+1.4
2000	-1. 4	+1.0	+3.8
4000	-2. 5	+1.6	+4.6
标称频率	允许下限	C计权	允许上限
Nominal frequency	Lower Limit	C-weighting	Upper Limit
(Hz)	(dB)	(dB)	(dB)
31. 5	-6. 5	-4. 0	+0.5
63	-3. 3	-2.4	+1.7
125	-2. 2	-1.2	+1.8
250	-1.9	-1.0	+1.9
500	-1. 9	-0.6	+1.9

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#### 深圳中航技术检测所

深圳中州	<b>瓦技术检测</b> 所		ū	E书编号/Certificate NO	.: LX16004264156
	1000 (ref.)	-1. 4	0.0	+1.4	
	2000	-2.8	-0. 1	+2.4	
	4000	-4.4	+1.0	+2.8	

- 4、级线性(参考频率 1kHz)/Level linearity error(Reference frequency 1kHz):
- 4.1、级程变化误差(参考频率: 1000Hz):

Level Change Error (Reference frequency:1000Hz)

标称值	允许下限	误差	允许上限
Nominal Value	Lower Limit	Error	Upper Limit
(dB)	(dB)	(dB)	(dB)
30	-1.0	+0.3	+1.0
40	-1.0	+0.2	+1.0
50	-1.0	+0. 1	+1.0
60	-1.0	+0. 1	+1.0
70	-1.0	+0. 1	+1.0
80	-1.0	0.0	+1.0
90 (ref.)		0.0	
100	-1.0	0.0	+1.0
110	-1.0	0.0	+1.0
120	-1.0	0.0	+1.0

- 5、本机噪声/Residual noise: A汁权/A-weighting: <u>29.0</u>dB;
- 6、单个猝发音响应 (A计权) /Tone burst response (A-weighting)

猝发音响应 (dB) /Tone burst response (dB)

单个猝发音持续时间 (ms) /Single tone

(ms) /Single tone burst Last time (ms)

 $L_{AFmax}-L_{A}$ 

允许范围 /Conclusion

 $L_{ASmax}-L_{A}$ 

允许范围 /Conclusion

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深圳中航技术检测所		证书	编号/Certific	ate NO.: LX16004264156
500	-0.2	+0.7∼-0.9	-4.0	-3.3∼-4.9
200	-1.0	-0.2~-1.8	-7. 1	<b>-6.6∼-8.2</b>
50	-4.2	-3.5∼-6.1	-12.8	-11.8~-14.4
10	-10.4	<b>-9.8∼-12.4</b>	-20. 2	-18.7~-22.3

7、重复猝发音响应 (A计权) /Response to repeated Toneburst (A-weighting)

单个猝发音持续时间 (ms) /Single tone	相邻单个猝发音持续时间 (ms) /Adjacent single			
burst Last time (ms)	tone burst last time (ms)	$L_{AEqT}$ - $L_{A}$	允许范围 /Conclusion	
500	2000	-7. 1	<b>-6</b> . 2∼ <b>-7</b> . 8	
200	800	-7.1	<b>-6</b> . 2∼ <b>-</b> 7. 8	
50	200	-6.8	-5.7∼-8.3	
10	40	-6. 7	<b>-</b> 5. 7∼ <b>-</b> 8. 3	

附注: ◇ 关于测量结果不确定度的说明/Directions of uncertainty in the calibration:

- 1. 依据文件/According to: JJF1059.1-2012测量不确定度评定与表示/ JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement;
- 本次测量结果的扩展不确定度/Expanded uncertainty of measured results: U=0.4dB ~1.0dB (k=2)
- ◇ 技术要求参照同类产品给出/MPE according relatived user manual;
- ◇ 参考IE61672-1-2002标准/Reference standard:IEC61672-1-2002;
- ◇ 溯源计量标准信息/Measurement Standard:

电声标准装置 [2013]深量标深企证字第045号 有效期: 2017-02-04

Electro-acoustic Measurement Standard

◇ 建议下次送校日期/Due to data: 2017-08-11

以下空白/End of data

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### 华南国家计量测试中心 广东省计量科学研究院







# 校准证书

#### CALIBRATION CERTIFICATE

证书编号 SSD201605833 Certificate No. 第 1 页, 共 8 页 Page of

1 1 1 1 LAWANSHITT 1991

委托方 Client	Apex Testing & 有限公司	Certification	Ltd	上	峰松	测认证	IE.
委托方地址 Add. of Client	Room 1905, 19/F Ho Lik Centre, 66A Sha Tsui Road, Tsuen Wan, New Territories, H.K.						
计量器具名称 Description	Sound Level Met	ter					
型号規格 Model/Type	AWA5661						
制造厂 Manufacturer	杭州爱华仪器有	限公司					
出厂编号 Scrial No.	304716		新编号 ipme		0.	_	
接收日期 Date of Receipt		2016 <b>年</b> Y	09	月 M	26	日 D	
结论 Conclusion	符合JJG 188-200	)2中1级技术要2	Ŕ				
校准日期 Date of Calibr	ation	2016年 Y	09	月 M	29	日 D	

批准人 Approved Signatory

> 核 验 Checked by

> 作文 /注 Calibrated by

证书专用章 Stamp



本中心地址:中国广州市广园中路松柏东街30号

郵政編码: 510405

电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)26296063 E-mail: sem@sem.com.cn

Add: No.30, Songbai East Street, Guangyuan Middle Road, Guangzhou, Guangdong, China

Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063

证书真伪查询: www.scm.com.cn: www.mtpsp.com Certificate Authenticityldentify: www.scm.com.cn: www.mtpsp.com

H30924 1

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### 华南国家计量测试中心 广东省计量科学研究院







证书编号 SSD201605833 Certificate No.

DIRECTIONS

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1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构, 计量授权证书号是: (国) 法计 (2012) 01043号、(国)法计(2012) 01032号。本中心质量管理体系符合ISO/IEC 17025:2005标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No. (2012)01043 & (2012)01032. The quality system is in accordance with ISO/IEC 17025:2005.

本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).

#### 3. 本次校准的技术依据:

Reference documents for the calibration:

JJG 188-2002 声级计检定规程 V.R. of Sound Level Meters

#### 4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号 Name of Equipment /Model	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
声校准器 Sound Calibrator /4231	2713562	SSD201603109 /2017-05-24	LS 級 Grade LS
猝发声发生器 Tone Burst Generator /AWA5551	013032	SSD201604495 /2017-07-28	声时允差: ±2% MPE: ±2%
声頻信号发生器 Audio-Frequency Signal Generators /1051	2198493	SSD201605374 /2017-08-25	电平: $U_{el}$ =0.1%, 頻 率: $U$ =1×10 <sup>-6</sup> ( $k$ =2) Voltage: $U_{el}$ =0.1%, Frequency : $U$ =1×10 <sup>-6</sup> ( $k$ =2)

#### 5. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 声学/振动实验室 Acoustics/Vibration Lab. 温度 (23±3) °C 相对湿度  $(40\sim50)$  % Place Temperature R.H.

#### 6. 被校准仪器限制使用条件:

Limiting condition of the instrument calibrated:

2. 未经本机构书面批准,不得部分复制此证书。

Note:1. The results relate only to the items calibrated.

2. This certificate shall not be reproduced except in full, without the written approval of our laboratory.

注: 1. 本证书校准结果只与受校准仪器有关。

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## 华南国家计量测试中心 广东省计量科学研究院





SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

### 校 准 结 果 RESULTS OF CALIBRATION

证书编号: SSD201605833 原始记录编号: 2201605833 Certification No. Record No.

第3页,共8页 Page of

1 外观: 合格

Apparent inspection: Pass

2 声级计指示声级调整:

Level Calibration

(声校准器型号: 4231

标准声压级: 94.0 dB)

Sound Level Calibrator Type

Standard level

校准前示值: 93.9 dB

校准后示值: 93.9 dB

传声器型号/编号: AWA14425/9591

Indication before Calibrated

Indication after Adjusted

Microphone type/serial number

3 频率计权:见表1、表2、表3

Frequency weightings: Showed in table 1 stable2 stable 3

#### 表1 Table 1

标称频率(Hz)	实测值A计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value A-weighting	Tolerance	Conclusion
10	-68.4	-∞ ~ -66.9	合格(Pass)
20	-50.7	-53.0 ~ -48.0	合格(Pass)
31.5	-39.7	-41.4 ~ -37.4	合格(Pass)
63	-26.3	-27.7 ~ -24.7	合格(Pass)
125	-16.3	-17.6 ~ -14.6	合格(Pass)
250	-8.7	$-10.0 \sim -7.2$	合格(Pass)
500	-3.3	-4.6 ~ -1.8	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	+1.3	-0.4 ~ +2.8	合格(Pass)
4000	+1.3	-0.6 ~ +2.6	合格(Pass)
8000	-0.4	-4.2 ~ +1.0	合格(Pass)
16000	-9.7	-23.6 ~ -3.1	合格(Pass)
20000	-21.5	-∞ ~ -5.3	合格(Pass)

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### 华南国家计量测试中心 广东省计量科学研究院







## 校准结果 RESULTS OF CALIBRATION

证书编号: SSD20 16058 Certification No.	33   原始记录编号: Record No.	2201605833	第 4 页,共 8 页 Page of
	表2 Table 2		
标称频率(Hz)	实测值C计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value C-weighting	Tolerance	Conclusion
10	-15.7	.∞ ~ -10.8	合格(Pass)
20	-6.6	-8.7 ~ -3.7	合格(Pass)
31.5	-3.2	-5.0 ∼ -1.0	合格(Pass)
63	-0.9	-2.3 ~ +0.7	合格(Pass)
125	-0.2	-1.7 ~ +1.3	合格(Pass)
250	0.0	-1.4 ~ +1.4	合格(Pass)
500	0.0	-1.4 $\sim$ +1.4	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	-0.1	-1.8 ~ +1.4	合格(Pass)
4000	-0.5	-2.4 ~ +0.8	合格(Pass)
8000	-2.3	-6.1 ∼ -0.9	合格(Pass)
16000	-11.6	-25.5 ~ -5.0	合格(Pass)
20000	-23.4	-∞ ~ -7.2	合格(Pass)
	表3 Table 3		
标称频率 (Hz)	实测值Z计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value Z-weighting	Tolerance	Conclusion
10	-1.3	-∞ ~ +3.5	合格(Pass)
20	-0.4	-2.5 ~ +2.5	合格(Pass)
31.5	-0.2	-1.5 ~ +1.5	合格(Pass)
63	-0.1	-1.5 ~ +1.5	合格(Pass)
125	-0.1	-1.5 ~ +1.5	合格(Pass)
250	0.0	-1.4 ~ +1.4	合格(Pass)
500	0.0	-1.4 ~ +1.4	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	0.0	-1.6 ~ +1.6	合格(Pass)
4000	0.0	-1.6 ~ +1.6	合格(Pass)
8000	0.0	-3.1 ~ +2.1	合格(Pass)
16000	0.0	-17.0 ~ +3.5	合格(Pass)
20000	0.0	-∞ ~ +4.0	合格(Pass)

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### 华南国家计量测试中心 广东省计量科学研究院





SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

## 校准结果 RESULTS OF CALIBRATION

证书编号: SSD201605833 Certification No. 原始记录编号: 2201605833 Record No. 第5页,共8页

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4 級线性(参考頻率 1 kHz)

Level linearity error (Reference frequency 1 kHz)

4.1 级程变化误差(量程25 dB~120 dB;参考频率: 1000 Hz): 见表4

Level Change Error(Range 25 dB~120 dB; Reference frequency: 1000 Hz): Showed in table 4

表4	Tab	le 4

标准值(dB)	指示值(dB)	误差(dB)	允差 (dB)	结论
Reference Value	Indication Value	Error	Tolerance	Conclusion
25	25.4	+0.4	$\pm$ 0.7	合格(Pass)
30	30.2	+0.2	$\pm 0.7$	合格(Pass)
40	40.1	+0.1	$\pm$ 0.7	合格(Pass)
50	50.1	+0.1	$\pm 0.7$	合格(Pass)
60	60.1	+0.1	$\pm 0.7$	合格(Pass)
70	70.0	0.0	$\pm$ 0.7	合格(Pass)
80	80.1	+0.1	$\pm 0.7$	合格(Pass)
90(ref.)	90.0	0.0		合格(Pass)
100	99.9	-0.1	$\pm 0.7$	合格(Pass)
110	110.0	0.0	$\pm 0.7$	合格(Pass)
120	120.0	0.0	$\pm$ 0.7	合格(Pass)

#### 4.2 参考级量程

Reference range

起始点指示声级: 90 dB

Start point

起始点以上间隔 1 dB点的最大误差: 0.1 dB

Maximum Error for each 1 dB above start point

起始点以下间隔 1 dB点的最大误差; 0.1 dB

Maximum Error for each 1 dB below start point

4.3 其他级量程

Other range

香港沙田火炭山尾街 18-24 號沙田商業中心 16 樓 9-10 室 Tel.: (852) 3563 7003 Fax.: (852) 3563 7018 網址: http://www.telemaxeem.com Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, N.T., Hong Kong

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com





### 华南国家计量测试中心 东省计量科学研究院







# 校 准 结 果

#### RESULTS OF CALIBRATION

证书编号: SSD201605833 Certification No.

原始记录编号: 2201605833 Record No.

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Page

起始点指示声级: 90 dB

Start point

起始点以上间隔 10 dB点的最大误差: 0.1 dB

Maximum Error for each 10 dB above start point

起始点以下间隔 10 dB点的最大误差: 0.2 dB

Maximum Error for each 10 dB below start point

上限以下 5 dB內的 1 dB点的最大误差: 0.1 dB

Maximum Error for each 1 dB within 5 dB below upper limit

下限以上 5 dB内的 1 dB点的最大误差: 0.1 dB

Maximum Error for each 1 dB within 5dB above lower limit

4.4 相对参考级量程的级程控制器最大误差: 0.0 dB

Maximum Error for different range

以"25 dB~120 dB"为参考量程

Reference range with "25 dB~120 dB"

以90.0 dB为参考点(0 dB)转向45 dB~140 dB量程误差: 0.0 dB

Error of indication from 90.0 dB reference point (0 dB) to 45 dB~140 dB another range

5 本机噪声:

Residual noise

A计权: <20 dB 结论: 合格(Pass)

A-weighting

Conclusion

6 F和S时间计权:

Time weightings F/S

衰减速率:

F: >25 dB/s (允许范围: ≥25 dB/s);

Attenuation rate

Tolerance

S: 4.4 dB/s (允许范围: 3.4 dB/s~5.3 dB/s);

Tolerance

F和S差值: 0.0 dB Dispersion F/S

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### 华南国家计量测试中心 广东省计量科学研究院







### 校 准 结 果 RESULTS OF CALIBRATION

证书编号: SSD201605833 Certification No.

原始记录编号: 2201605833 Record No.

第7页,共8页 of

合格(Pass)

Page

-18.7~-22.3

7 猝发音响应(A计权): 见表5

Toneburst response (A-weighting): Showed in table 5

			表5 Table 5				
单个猝发音			猝发音	响应/dB			
持续时间/ms			Tone burst	response/dB			
Single tone burst	$\mathbb{L}_{AFmax^{*}}\mathbb{L}_{A}$	允许范围	结论	$\mathbb{L}_{ASmex^n}\mathbb{L}_{A}$	允许范围	结论	
Last time/ms		Tolerance	Conclusion		Tolerance	Conclusion	
500	-0.1	+0.7~-0.9	合格(Pass)	-3.7	-3.3~-4.9	合格(Pass)	
200	-1.0	-0.2~-1.8	合格(Pass)	-7.0	-6.6~-8.2	合格(Pass)	
50	-5.0	-3.5~-6.1	合格(Pass)	-12.7	-11.8~-14.4	合格(Pass)	

合格(Pass)

-19.6

#### 8 过载指示:

Over loading indication

误差: 0.6 dB (允许范围: ≤1.8 dB)

结论:合格(Pass)

Tolerance

-11.3

Conclusion

9 峰值C声压(500 Hz): 见表6

Peak C sound level: Showed in table 6

表61	Fabla	Á

-9.8~-12.4

试验信号中的周期数目	(T	允差/dB	结论
Periods number in test signal	(L <sub>Cpeak</sub> -L <sub>C</sub> ) /dB	MPE	Conclusion
一个周期	3.6	$2.1 \sim 4.9$	合格(Pass)
One period	5.0		
正半个周期	2.2	$1.0 \sim 3.8$	合格(Pass)
Positive half period			
负半个周期 	2.2	$1.0 \sim 3.8$	合格(Pass)
Minus half period			

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### 华南国家计量测试中心 东省计量科学研究院







# 校准结果

RESULTS OF CALIBRATION

证书编号: SSD201605833 Certification No.

原始记录编号: 2201605833 Record No.

第8页,共8页

Page of

说明:

Note:

1 产压级测量结果扩展不确定度:

Expanded uncertainty of measurement in Sound Pressure Level Calibration:

10 Hz~200 Hz, U=0.5 dB, k=2

250 Hz $\sim$ 400 Hz, U=0.4 dB, k=2

500 Hz~1.25 kHz, U=0.4 dB, k=2

 $1.6 \text{ kHz} \sim 10 \text{ kHz}$ , U=0.6 dB, k=2

12.5 kHz $\sim$ 20 kHz, U=1.0 dB, k=2

(依据JJF 1059.1-2012 测量不确定度评定与表示)

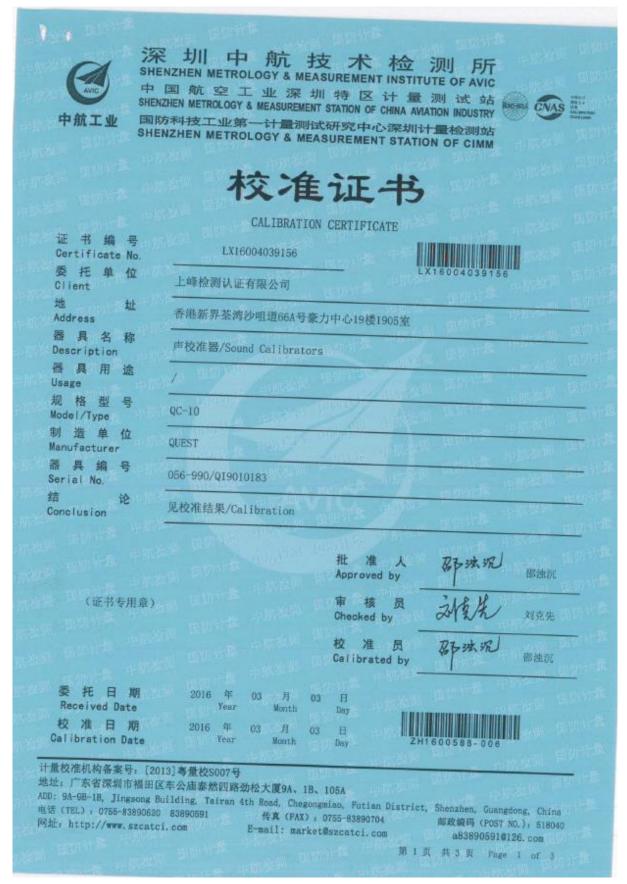
(According to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

2 建议校准周期不超过1年。

The interval of calibration advised within one year.

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#### 深圳中航技术检测所

证书编号: LX16004039156

#### 说 明

#### Directions

1. 深圳中航技术检测所是国家法定计量检定机构, 其管理体系按照JJF 1069-2012法定计量机构考核规范、 ISO/IEC 17025:2005和CNAS相关要求运行。The laboratory is the Service of Legal Metrological Verification. The laboratory has implemented management system in accordance with JJF 1069-2012 Rules for the Examination of the Service of Legal Metrological Verification, ISO/IEC 17025:2005 and CNAS related requirements.

2. 本次瀕量结果仅对被剥件有效,所出具的数据均可溯源到国家或国际计量基准。

The measurement results relate only to the unit under test. All data issued by the laboratory are traceable to the national or international primary standards of measurement.

3. 测量结果所陈述的测量不确定度为包含因子k=2的扩展不确定度,当不报告测量不确定度时,表示测量标准的 不确定度小于被测量误差极限的1/3。

The uncertainty reported in this document is the expanded uncertainty with a coverage factor k=2, when no uncertainty reported, the test uncertainty ratio (TUR) is less 1/3.

4. 測量结果未给出与被测件运输、使用等有关的不确定度;如需要,由用户考虑。

The quoted uncertainty does not include the uncertainty introduced by use and transport of the calibrated items.

5. 未经本所书面批准,不得部分复制此证书。

This certificate shall not be reproduced without the written approval of the issuing laboratory except in full.

6. 对本次测量若有异议,委托方应于收到被测件之日起十五日内向本所提出。

If there is any objection concerning the measurement, the client should inform the issuing laboratory within 15 days from the date of the unit under test return to the client.

7. 本次測量的技术依据(Reference documents for the measurement):

JJG 176-2005 (声校准器》JJG 176-2005 (V.R. of Sound Calibrators)

8. 地点及环境条件(Place and environmental condition);

地点(Place) 温度(Temperature)

相对湿度 (Relative Humidity)

本所/Lab

22.0 °C

60.%

9. 本次测量所使用的主要计量标准器具(Major standards of measurement used in the measurement);

器具名称 Description	编号 Serial No.	有效期 Due Date	计量特性 Metrological Characteristic
AUD10 CALIBRATOR)率 校准器	2292007	2016-11-04	18 19 18
MICROHPONE传 声器	2172118	2016-11-04	U=0, 3dB (k=2)
音频分析仪	683012D122	2016-12-07	MPE:±1dB(20Hz~20kHz) 电平; ±0.2% MPE:±2dB(20kHz~100kHz) 失真; ±1.4%
测量放大器	089867	2016-12-29	200 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 · 100 ·

第2页 共3页

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深圳中部	抗技术检测所		证书编号: LX1600
	San San Maria Caran	17.49	
Service 1	外观及功能正常性检查:	正常	
	Visibility and function ins	pection: Pass.	
Servin Sy	at IC on the VIII do		
2	声压级校准/Sound pressure 1	evel calibration:	100 FT 602 50 00 400 00 100 100 1
	規定声压級/Provisions of	测量声压级/Measurement	声压级差的绝对值/ The absolute value of
	sound pressure level (dB)	of sound pressure	pressure level
	A HARMAN	level (dB)	difference(dB)
	114	114.00	0.00
18111	频率校准/Frequency calibrat	and the second	
福智士			ATTION IN THE AND
	规定頻率(Hz)	測量頻率(Hz)	频率误差(%)
	assigned frequency	assigned frequency	frequency error
	1000	1000.0	0.0
e (distri	失真度校准/Distortion calib	ration.	
ma umal	规定频率(Hz)	规定声压级/Provisions of	总失值(%)
		sound pressure level (dB)	Distortion
	assigned frequency	114	0.81
	1000	114	0, 61
附往:	◇ 关于测量结果不确定度的说	WH.	
(emark:	Directions of uncertainty i 1. 依据文件: JJF1059.1-2012		
	Ref. document: JJF1059, 1-2012		on of uncertainty in
	measurement:	2 Evaluation and Expression	on or uncertainty in
	2. 本次測量结果的扩展不确定原	1221 F	
	Expanded uncertainty of the		0.4dB (k=2)
	◇ 建议下次送校日期/Next Ca		- STATE
		The same of the	
	以下空白	/End of Data	
	AT THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		



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Appendix E Impact Monitoring Data of Noise



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Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												6/12/	2016											$\neg$
Mo	nitoring Location												NSRI	(EP)											
Descrip	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	nool										
Sou	nd Level Method											Sound leve	l meter : A	WA5661 S	N304042										
(Moo	del and Serial No.)											Calil	rator: QC-	-10 S/N056	-990										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	B 4B 4B 4B 4B 4B 4B 4B 4B 4B 4B 4B 4B 4B																						
Time of	Start	7:00	7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:30 12:00 12:30 13:30 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30																						
Monitoring	Finish	7:30	130 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30 19:00																						
	L10 dB(A)	66.8	65.7	66.4	67.3	68.1	66.9	68.4	67.6	66.8	67.5	66.9	66.7	68.5	67.7	68.6	67.1	66.3	67.8	68.3	67.0	66.9	65.5	66.4	66.9
1	L90 dB(A)	55.6	55.2	56.7	56.9	57.2	55.8	57.3	56.8	55.3	57.8	55.9	55.6	57.7	57.9	58.4	57.6	57.3	58.2	57.2	56.8	55.2	54.1	54.9	55.6
Measured Noise	Leq dB(A)	64.1	63.9	64.7	65.1	65.9	64.8	66.2	65.8	64.9	65.3	64.7	64.0	66.2	65.4	66.1	65.5	64.2	65.3	66.3	65.1	64.6	63.6	63.7	64.3
Level (dB(A))	L10 (Average)												67	.2											
1	L90 (Average)		56.7																						
	Lea (30 min)		65.1																						
Noise Lin	nit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	Instruction Activities		Piling Works																						
Other Noise Se	ources During Measurement											Hun	nan Activiti	ies and Vel	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/12/2016
Checked by	Calvin Lui	Office	31/12/2016

Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

D.													6110	10016											
	ta of Monitoring		6/12/2016																						
Mo	nitoring Location												NSR'	7 (EP)											
Descrip	ption of the Location												Fu Yur	1 House											
Sound Level M	ethod (Model and Serial No.)											Sound leve													
												Cahi	rator: QC	-10 S/N056	-990										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:30 12:00 12:30 13:00 13:30 14:30 15:00 15:30 16:00 16:30 17:30 18:00 18:30																						
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	72.7	71.6	72.5	73.7	74.2	74.6	75.0	75.7	74.9	75.6	76.5	76.4	75.8	76.2	75.1	75.6	74.8	74.7	75.6	74.4	75.3	75.4	74.7	74.8
	L90 dB(A)	66.4	65.8	66.7	67.4	67.9	68.3	67.1	67.9	66.5	67.3	68.4	68.9	67.7	67.8	68.4	68.2	67.6	66.9	67.3	67.8	65.4	65.8	65.9	66.2
Measured Noise	Leq dB(A)	70.3	69.4	70.5	71.6	71.9	72.5	72.8	73.4	72.7	73.1	73.9	74.2	73.5	74.0	73.6	73.4	72.9	72.4	73.0	72.3	73.5	73.1	72.2	72.8
Level (dB(A))	L10 (Average)												75	.0											
	L90 (Average)		67.3																						
	Lea (30 min)		72.8																						
Noise Lin	nit Level, Leq, (dB(A))		75dB(A)																						
Site Co	onstruction Activities		Piling Works																						
Other Noise Se	ources During Measurement											Hun	an Activit	ies and Vel	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	8	31/12/2016
Checked by	Calvin Lui	Color.	31/12/2016







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Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												12/12	/2016											
Mo	nitoring Location												NSRI	(EP)											
Descrip	ption of the Location											Sir	Ellis Kadoo	ne Sec Sch	nool										
Sou	nd Level Method											Sound leve	l meter : A	WA5661 S	/N304042										$\neg$
(Mo	del and Serial No.)											Cali	rator: QC-	10 S/N056	-990										
Weather	Status												Fi	ne											$\neg$
Condition	Wind Strength (m/s)	<5(E)	<5(E)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c																					
Time of	Start	7:00	7:30	7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:30 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30																					
Monitoring	Finish	7:30	8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30												19:00										
	L10 dB(A)	66.7	65.6	66.9	65.4	65.8	67.7	66.8	65.3	66.4	67.2	67.6	66.4	67.1	66.5	66.7	65.9	66.2	67.6	66.8	68.3	67.2	68.7	66.9	66.5
1	L90 dB(A)	56.4	55.8	56.3	55.2	56.5	56.0	57.3	56.1	57.4	58.8	58.4	57.2	58.1	57.5	57.2	56.5	56.9	57.3	56.4	58.8	58.2	57.4	58.9	59.4
Measured Noise	Leq dB(A)	64.5	63.8	64.1	63.7	63.6	65.6	64.7	63.1	64.5	65.0	65.3	64.8	65.2	64.5	64.0	63.9	64.7	65.2	64.8	66.3	65.8	66.1	64.7	64.2
Level (dB(A))	L10 (Average)												66	.8											
1	L90 (Average)												57	.4											
	Lea (30 min)												64	.7											
	nit Level, Leq, (dB(A))										700	B(A) for s	thool / 65 d	B(A) durin	g examinat	tion									$\neg \neg$
Site Co	instruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	iicle										$\neg \neg$

	Name	Signature	Date
Recorded by	Mary Yiu	8	31/12/2016
Checked by	Calvin Lui	Cotto	31/12/2016

Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												12/12	1/2016											$\neg$
Mo	nitoring Location												NSR'	7 (EP)											$\neg$
Descrip	ption of the Location												Fu Yu	n House											$\neg$
Sound Level M	ethod (Model and Serial No.)													WA5661 S -10 S/N056											
Weather	Status												F	ine											$\neg$
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	ර(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00													18:00	18:30									
Monitoring												16:00	16:30	17:00	17:30	18:00	18:30	19:00							
	L10 dB(A)	73.5	74.1	72.9	73.6	72.4	74.8	75.1	73.8	74.6	74.8	75.6	75.4	76.1	75.5	76.3	74.7	74.9	75.0	75.6	76.4	74.3	74.1	74.6	75.5
	L90 dB(A)	65.0	65.8	65.1	65.3	66.2	67.8	67.1	66.6	67.4	65.3	69.1	68.4	68.7	67.4	67.9	66.5	68.4	66.2	65.7	65.9	65.0	67.2	66.1	67.3
Measured Noise	Leq dB(A)	71.2	71.9	70.5	71.3	70.8	72.4	72.9	71.6	72.5	72.9	73.4	73.8	74.2	73.1	73.9	72.5	72.9	73.8	73.1	73.8	72.5	72.0	72.7	73.2
Level (dB(A))	L10 (Average)												74	1,8											
1	L90 (Average)												66	5.9											
	Lea (30 min)												72	2.7											
Noise Lin	nit Level, Leq, (dB(A))												75d.	B(A)											
Site Co	instruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/12/2016
Checked by	Calvin Lui	Com.	31/12/2016





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Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												17/12	/2016											$\neg$
Mo	nitoring Location												NSRI	(EP)											
Descrip	otion of the Location											Sir	Ellis Kadoo	one Sec Sch	iool										
Sou	nd Level Method											Sound leve	l meter : A	WA5661 S	/N304042										$\neg$
(Moo	del and Serial No.)											Calil	orator: QC-	10 S/N056	-990										- 1
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	0 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30 16:00 16:30 17:00 1												17:30	18:00	18:30	19:00							
	L10 dB(A)	64.3	65.8	66.7	67.1	67.3	68.5	66.9	67.7	66.8	68.9	67.6	68.1	66.4	67.3	68.7	68.5	67.9	66.2	66.7	67.6	67.8	67.2	66.1	65.6
	L90 dB(A)	55.3	54.7	56.3	56.9	57.4	57.8	56.5	56.8	57.3	56.4	56.8	58.2	57.1	58.8	60.2	60.8	59.3	58.4	57.5	60.1	60.5	59.7	59.2	58.1
Measured Noise	Leq dB(A)	62.8	63.2	64.5	64.8	65.5	65.9	64.7	65.3	64.2	66.3	65.1	65.7	64.6	65.4	66.7	66.2	65.0	64.9	64.3	65.8	65.3	65.6	64.2	63.7
Level (dB(A))	L10 (Average)												67	.3											
	L90 (Average)												58	.2											
	Lea (30 min)												65	.1											
Noise Lin	nit Level, Leq, (dB(A))										70d	B(A) for so	thool / 65 d	B(A) durin	g examina	tion									
Site Co	instruction Activities												Piling	Works											
Other Noise Se	ources During Measurement											Hun	nan Activit	ies and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/12/2016
Checked by	Calvin Lui	Com	31/12/2016

Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

	454 1 1												4.00.00.0	2000											
	ta of Monitoring												17/12	/2016											
Mor	nitoring Location												NSR'	(EP)											
Descrip	ption of the Location												Fu Yur	House											
Sound Level Me	ethod (Model and Serial No.)											Sound leve Calil		WA5661 S 10 S/N056											
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<2(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring Pinish 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:30 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30 16:00 16:30										17:00	17:30	18:00	18:30	19:00											
	L10 dB(A)	73.5	72.8	73.1	74.5	75.8	74.6	74.3	73.4	74.3	75.5	74.7	75.6	76.8	75.1	75.3	74.6	74.0	75.4	75.2	74.7	74.5	75.7	74.5	73.6
l .	L90 dB(A)	65.2	65.9	66.3	66.7	67.4	66.9	66.2	66.0	67.3	68.4	69.5	66.7	67.5	68.2	67.4	68.5	66.3	67.7	68.2	66.9	67.1	66.5	66.9	64.7
Measured Noise	Leq dB(A)	71.3	70.8	71.8	72.4	73.4	72.5	71.9	71.1	72.6	73.0	72.7	73.8	74.1	73.7	73.2	72.9	72.1	73.5	73.1	72.6	72.2	73.4	72.4	71.8
Level (dB(A))	L10 (Average)												74	.7											
l .	L90 (Average)												67	.1											
	Lea (30 min)												72	.7											
Noise Lin	nit Level, Leq, (dB(A))												75d1	3(A)											
Site Co	instruction Activities												Piling	Works											
Other Noise So	ources During Measurement											Hur	nan Activit	ies and Veh	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/12/2016
Checked by	Calvin Lui	atti	31/12/2016





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Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												23/12	/2016											
Mo	nitoring Location												NSR1	1 (EP)											
Descrip	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	nool										
Sou	nd Level Method											Sound leve	l meter : A	WA5661 S	/N304042										$\neg$
(Moc	del and Serial No.)											Calil	rator: QC-	-10 S/N056	-990										- 1
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30 16:00 16:30 1												17:00	17:30	18:00	18:30	19:00						
	L10 dB(A)	65.5	64.7	65.9	66.2	67.1	65.3	66.2	67.1	66.9	67.7	67.4	66.8	67.9	66.6	66.3	67.8	66.5	67.8	66.7	66.1	66.8	65.6	64.2	65.5
I	L90 dB(A)	56.9	56.2	57.1	58.3	57.8	56.4	57.3	57.9	58.8	59.3	58.7	57.2	58.1	57.6	57.3	58.4	58.2	59.0	58.5	58.1	59.2	58.3	56.6	56.0
Measured Noise	Leq dB(A)	63.1	62.5	63.6	64.2	64.9	63.7	64.5	65.0	64.7	65.8	65.1	64.7	65.3	64.9	64.1	65.3	64.4	65.2	64.6	64.0	64.7	63.4	62.8	63.1
Level (dB(A))	L10 (Average)												66	.5											
I	L90 (Average)												57	.9											
	Lea (30 min)												64	.4											
Noise Lin	nit Level, Leq, (dB(A))										70d	B(A) for se	hool / 65 d	iB(A) durin	g examina	tion									
Site Co	onstruction Activities												Piling	Works											
Other Noise Se	ources During Measurement											Hun	an Activiti	ies and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	8	31/12/2016
Checked by	Calvin Lui	Cotti	31/12/2016

Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

		1											2011												$\overline{}$
Da	ita of Monitoring												23/12	/2016											
Mo	mitoring Location												NSR'	(EP)											
Descrip	ption of the Location												Pu Yur	House											
Sound Level M	lethod (Model and Serial No.)													WA5661 S 10 S/N056											
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00													18:30										
Monitoring Finish 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30										16:00	16:30	17:00	17:30	18:00	18:30	19:00									
	L10 dB(A)	70.9	70.6	72.5	73.7	74.8	74.6	73.9	74.5	73.6	74.2	74.7	74.9	74.0	74.3	75.5	75.9	75.4	74.7	76.2	75.7	74.3	75.5	74.8	73.3
1	L90 dB(A)	64.5	64.0	65.3	66.4	66.1	65.2	65.9	66.8	65.0	64.5	64.9	64.3	65.7	66.2	67.7	67.9	66.3	65.8	67.4	67.3	65.6	67.1	66.5	65.3
Measured Noise	Leq dB(A)	68.7	68.1	70.3	71.2	72.9	72.0	71.8	72.3	71.0	71.8	72.6	72.7	72.1	72.4	73.2	73.8	73.0	72.5	74.1	73.5	72.9	73.3	72.8	71.4
Level (dB(A))	L10 (Average)												74	.5											
1	L90 (Average)												66	.0											
	Lea (30 min)												72	.3											
Noise Lin	mit Level, Leq. (dB(A))												75d1	3(A)											
Site Co	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/12/2016
Checked by	Calvin Lui	Cotto	31/12/2016





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Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ta of Monitoring												29/12	/2016											
Mo	nitoring Location												NSR	1 (EP)											
Descrip	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	nool										$\neg$
Sou	nd Level Method											Sound leve	1 meter : A	WA5661 S	/N304042										$\neg$
(Mox	del and Serial No.)											Calil	rator: QC-	-10 S/N056	-990										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<b>ぐ(E)</b>	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	ぐ(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	64.5	65.7	66.3	64.8	66.2	65.5	66.4	66.7	65.6	65.9	66.8	67.7	66.4	67.3	67.8	66.5	66.2	65.1	66.3	66.7	66.0	67.9	67.4	65.3
1	L90 dB(A)	55.2	55.9	56.2	55.1	56.6	55.7	57.2	56.8	56.3	55.5	56.7	58.8	57.6	58.2	59.1	57.0	57.3	56.1	57.2	58.2	57.4	55.9	55.5	55.3
Measured Noise	Leq dB(A)	62.6	63.1	63.9	62.5	64.1	63.7	64.5	64.1	63.8	63.0	64.6	65.2	64.3	65.7	65.1	64.2	63.9	63.7	64.6	64.8	64.0	65.5	65.2	63.3
Level (dB(A))	L10 (Average)		66.4																						
1	L90 (Average)		56,8																						
	Lea (30 min)		64.2																						
Noise Lin	nit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	Instruction Activities		Piling Works																						
Other Noise S	ources During Measurement											Hun	nan Activit	ies and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/12/2016
Checked by	Calvin Lui	Other	31/12/2016

Noise Monitoring Record Sheet

Contract No: SS D505

Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

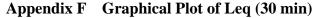
Da	ta of Monitoring												29/12	2/2016											
Mo	nitoring Location												NSR'	7 (EP)											
Descrip	ption of the Location												Fu Yu	n House											
Sound Level M	ethod (Model and Serial No.)													AWA5661 S -10 S/N056											
Weather	Status											Cent		ine	-220										
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	71.4	72.6	73.1	74.7	73.3	75.4	75.8	75.9	76.4	75.7	75.2	75.4	74.8	74.7	75.5	74.3	73.4	75.2	74.3	73.7	74.6	74.0	73.2	73.5
l	L90 dB(A)	64.2	64.6	64.8	65.5	65.9	66.7	66.2	67.1	65.8	67.3	66.7	66.3	65.4	65.1	66.5	65.4	66.8	67.4	66.9	65.3	66.1	65.7	65.2	65.6
Measured Noise	Leq dB(A)	69.2									71.7														
Level (dB(A))	L10 (Average)		74,6																						
l	L90 (Average)	66.0																							
	Lea (30 min)	72.5																							
Noise Lir	nit Level, Leq, (dB(A))		75dB(A)																						
Site Co	onstruction Activities		Piling Works																						
Other Noise S	ources During Measurement		Human Activities and Vehicle																						

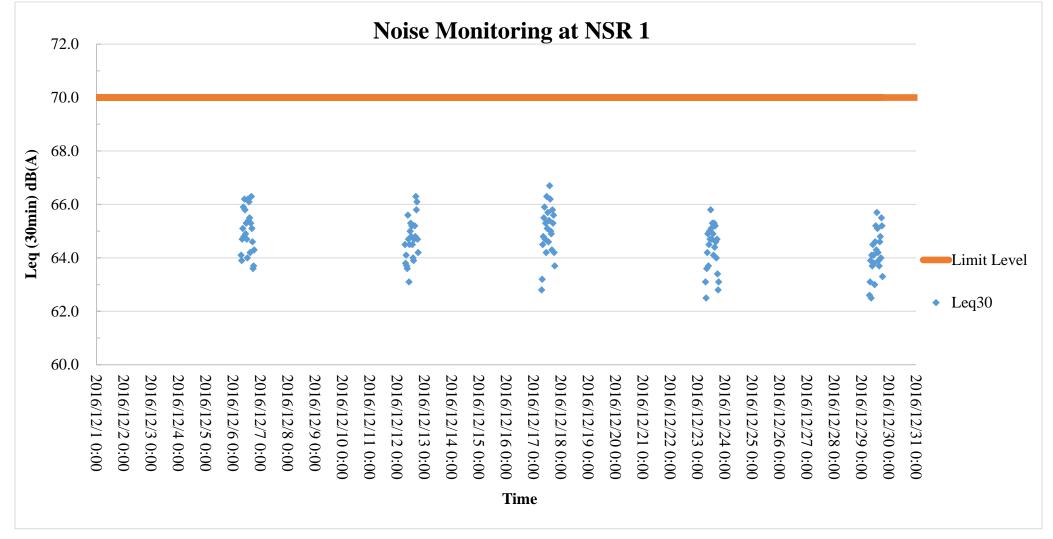
	Name	Signature	Date
Recorded by	Mary Yiu	8	31/12/2016
Checked by	Calvin Lui	Cotto	31/12/2016





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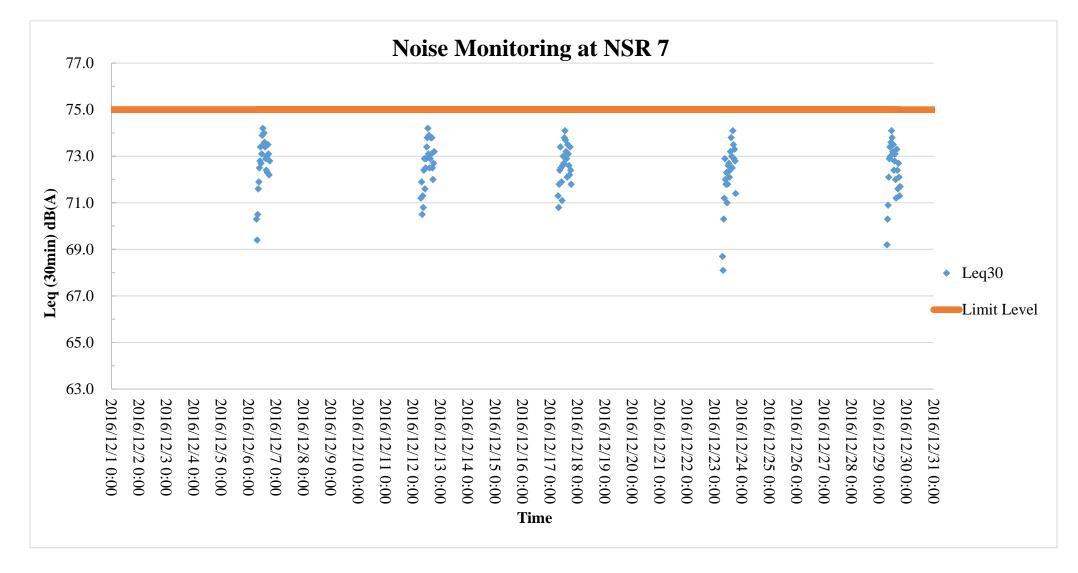






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### **Appendix G** Monitoring Schedule

### **Impact Monitoring Schedule (December 2016) [i.e. Reporting Period]**

						December 2016
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4		6 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	7	8	9	10
11	12 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	13	14	15	16	17 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
18	19	20	21	22	23 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	24
25	26	27	28	29 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	30	

Remarks: IN – Impact Noise Monitoring

NSR 1 –Sir Ellis Kadoorie Secondary School (West Kowloon)





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### **Impact Monitoring Schedule (January 2017)**

						January 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	5	6	7
8		10 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	11	12	13	14
15	16 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	17	18	19	20	21 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
22	23	24	25	26	27 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	28
29	30	31				

Remarks: IN – Impact Noise Monitoring

NSR 1 –Sir Ellis Kadoorie Secondary School (West Kowloon)





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### **Impact Monitoring Schedule (February 2017)**

						February 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	3	4
5	6		8 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	9	10	11
12		14 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	15	16	17	18
19	20 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900		22	23	24	25 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
26	27	28				

Remarks: IN – Impact Noise Monitoring

NSR 1 –Sir Ellis Kadoorie Secondary School (West Kowloon)





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### **Impact Monitoring Schedule (March 2017)**

						March 20
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	1		3 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	4
5	6	7	8	9 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	10	11
12	13		15 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	16	17	18
19		21 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	22	23	24	25
26	27 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900		29	30	31	

Remarks: IN – Impact Noise Monitoring

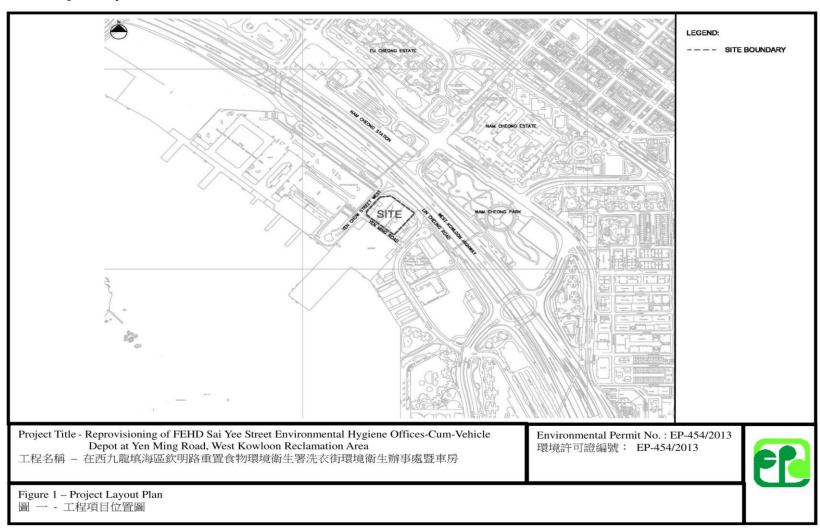
NSR 1 –Sir Ellis Kadoorie Secondary School (West Kowloon)



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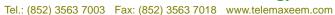


### **Appendix H** Project Layout



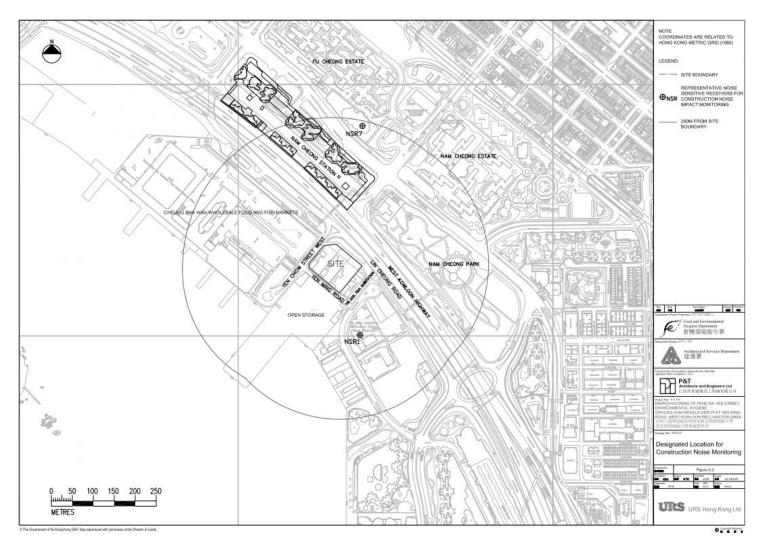








## Appendix I Location of the Impact Monitoring Locations







### Appendix J Photo Records of Monitoring

### **Photo Records of Noise Monitoring in Daytime**



NSR 1 - Sir Ellis Kadoorie Secondary School (West Kowloon)



NSR 7 - Fu Cheong Estate Fu Yuen House





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## Appendix K Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 29 February 2016) to the end of the reporting month and are summarized in the Table L-1 below.

Table L1 Statistics for complaints, notifications of summons and successful prosecutions

Reporting Period	Received Date			Cu	mulative Statistics	
		Complaints	Notifications of	Successful prosecutions	Туре	Status
			summons			
This reporting month	N/A	0	0	0	N/A	N/A
From 29 February 2016 to end of the reporting month		2	0	0		

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### **Appendix L** Monthly Waste Flow Table

MA P3 ConstructionWaste Management Plan

MA 11 Construction Waste Reduction

Project: FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, WKL

Record by: China Road and Bridge Corporation

Year of Record: 2016

Monthly Waste Flow Table

DD.MM.YY	Total	Total		Ant	ual Ouant	ities of Inert C	OD Motor	riolo Cono	roted Mon	+blv		Antun	LOugntition	of COD M	eteriele C	enerated M	onthly
DD.IVIIVI. 1 1	Quantity	Quantity	F	vated Mate		ues of mert c						Metals	Metals	Paper/	Plastics	Chemical	Other, e.g.
	Generated	Generated							ted Materia			(steel bar	(aluminum	cardboard	(1) & (4)	waste	general
		(Excluded	Disposed in Public Fill	Disposed in Sorting	Others (e.g	Broken Concrete or	Reused in the	Reused in other	Disposed in Public	Disposed in Landfill	Disposed in Sorting	/ metal	can) (1)	packaging		(wasted	refuse
		Excavated	r ubic riii	Facilities	Reused in	Construction	Contract	Projects	Fill	Landini	Facilities	strip) (1)		(1)		lubricant	l 1
		Material)			the	Waste										oil/oil	l 1
					Contract /	Collected by		l			l	l				container)	l 1
					Other	Recycled		l			l	l					I I
					Projects)	Company					1						l I
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
	a1	a2	b	b	b	С	d	e	f	g	h	i	j	k	_	m	n
1-Dec-16	226.70	0.00	226.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Dec-16	195.70	0.00	195.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Dec-16	75.90	0.00	75.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Dec-16	289.90	2.20	287.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
6-Dec-16	46.10	0.00	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-Dec-16	60.50	0.00	60.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Dec-16	45.90	0.00	45.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Dec-16	226.80	0.00	226.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12-Dec-16	91.50	0.00	91.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-Dec-16	166.40	0.00	166.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Dec-16	30.30	0.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-Dec-16	59.20	0.00	59.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-Dec-16	270.20	0.00	270.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Dec-16	211.80	1.30	210.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
20-Dec-16	135.10	0.00	135.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Dec-16	121.22	1.72	119.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	0.00
22-Dec-16	97.10	0.00	97.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-Dec-16	164.90	0.00	164.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Dec-16	75.10	0.00	75.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2590.32	5.22	2585.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	3.50

Total C&D waste generated

Total C&D waste generated (excluded excavated materials)

Total recycled C&D waste

% of recycled C&D waste for BEAM Plus MA11

2590.32 tonnes a1=b+c+d+e+f+g+h+i+j+k+l+m+n 5.22 tonne a2=c+d+e+f+q+h+i+j+k+l+m+n

1.72 tonne a2=c+d+e+f+g+h+i
1.72 tonne a3=c+d+e+i+j+k+l
0.33 % a4=a3/a2 x 100%

Notes:

(1) metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contractt.

(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates.

(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation.

(7) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.





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#### MA P3 ConstructionWaste Management Plan

#### MA 11 Construciton Waste Reduction

Project: FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, WKL

Record by: China Road and Bridge Corporation

Year of Record: 2016

Overall Summary Waste Flow Table

DD.MM.YY	Total	Total		Act	ual Quanti	ities of Inert C	&D Mater	rials Gene	rated Mon	ithly		Actua	Quantities	of C&D M	aterials G	enerated M	onthly
	Quantity Generated	Quantity Generated	Exca	vated Mate	rials		No	n-excavat	ted Materia	als		Metals	Metals	Paper /	Plastics	Chemical	Other,
	Scholaco	(Excluded Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Landfill	Disposed in Sorting Facilities	(steel bar / metal strip) <sup>(1)</sup>	(aluminum can) <sup>(1)</sup>	cardboard packaging (1)	1,54.67	waste (wasted lubricant oil/oil container)	e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
	a1	a2	b	b	b	С	d	e	f	g	h	i	j	k	_	m	n
Mar-16	36.48	4.58	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	2.00
Apr-16	9.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.20
May-16	4.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
Jun-16	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20
Jul-16	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80
Aug-16	109.80	0.50	109.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Sep-16	659.70	8.10	651.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
Oct-16	1280.90	1.50	1279.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
Nov-16	1463.50	4.30	1459.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30
Dec-16	2590.32	5.22	2585.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	3.50
Total	6162.50	46.00	6116.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	41.70

Total C&D waste generated

Total C&D waste generated (excluded excavated materials)

Total recycled C&D waste

% of recycled C&D waste for BEAM Plus MA11

6162.50 tonnes a1=b+c+d+e+f+g+h+i+j+k+l+m+n 46.00 tonne a2=c+d+e+f+g+h+i+j+k+l+m+n

4.30 tonne a3=c+d+e+i+j+k+l 9.35% % a4=a3/a2 x 100%

Notes:

(1) metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contractt.

(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates.

(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation.

(7) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.



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#### **Appendix M Environmental Licenses / Permits**

(a) Environmental Permit

Environmental Permit No. EP-454/2013 環境許可證編號 EP-454/2013

#### ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE (CHAPTER 499) Section 10

環境影響評估條例 (第499章) 第10條

# ENVIRONMENTAL PERMIT TO CONSTRUCT AND OPERATE A DESIGNATED PROJECT

建造及營辦指定工程項目的環境許可證

#### PART A (MAIN PERMIT)

A部 (許可證主要部分)

Pursuant to Section 10 of the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection (the Director) grants this environmental permit to the <u>Food and Environmental Hygiene Department</u> (hereinafter referred to as the "Permit Holder") to construct and operate the designated project described in <u>Part B</u> subject to the conditions specified in <u>Part C</u>. The issue of this environmental permit is based on the documents, approvals or permissions described below:

根據《環境影響評估條例》(環評條例)第10條的規定,環境保護署署長(署長)將本環境許可證批予<u>食物</u> 環境衞生署(下稱許可證持有人)以建造及營辦<u>B部</u>所說明的指定工程項目,但須遵守<u>C部</u>所列明的條件。 本環境許可證是依據下列文件、批准或許可而簽發:-

Application No. 申請書編號	AEP-454/2013
Document in the Register 登記冊上文件	(1) Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area (Register No.: AEIAR-177/2013)  - Environmental Impact Assessment Report (June 2013) [Hereinafter referred to as the "EIA Report"]  - Environmental Monitoring and Audit Manual (June 2013) [Hereinafter referred to as the "EM&A Manual"]  - Executive Summary (June 2013)
	在西九龍填海區欽明路重置食物環境衞生署洗衣街環境衞生辦事處暨車房 (登記冊編號: AEIAR-177/2013) - 環境影響評估報告 (2013年6月) [下稱「環評報告」] - 環境監察審核手冊 (2013年6月) [下稱「環監手冊」] - 行政摘要 (2013年6月)
	(2) The Director's letter of approval of the EIA report dated 12 November 2013 referenced (69) in EP 2/K20/A20 Pt.2
	署長於2013年11月12日發出批准環評報告的信件,檔案編號: (69) in EP 2/K20/A20 Pt.2
	(3) Application for an Environmental Permit submitted by the Permit Holder on 24 June 2013 (Application No.: AEP-454/2013)
	許可證持有人於2013年6月24日提交的環境許可證申請(申請書

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		編號: AEP-454/201	3)
-	•		
-	12 November 2013 2013年11月12日		
	Date 日期		(Ken Y.K. Wong) Principal Environmental Protection Officer for Director of Environmental Protection 環境保護署署長 (首席環境保護主任 黃輝光代行)

### PART B ( DESCRIPTION OF DESIGNATED PROJECT)

B部 (指定工程項目的說明)

Hereunder is the description of the designated project mentioned in Part A of this environmental permit (hereinafter referred to as the "Permit"):-

下列為本環境許可證(下稱"許可證")A部所提及的指定工程項目的說明:

Title of Designated Project(s) 指定工程項目的名稱	Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices- cum-vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area [This designated project is hereinafter referred to as "the Project"]  在西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車 房 [這指定工程項目下稱"工程項目"]
Nature of Designated Project(s) 指定工程項目的性質	A transport depot located less than 200m from the nearest boundary of an existing or planned residential area / educational institution 運輸車廠的位置距離一個現有的或計劃中的住宅區或教育機構的最近界線少於200 米
Location of Designated Project(s) 指定工程項目的地點	The Project is located at Yen Ming Road, West Kowloon Reclamation Area. The location of this Project is shown in <u>Figure 1</u> attached to this Permit.  工程項目位於西九龍填海區欽明路。工程項目的位置見載於本許可證夾附的 <u>圖1</u> 。
Scale and Scope of Designated Project(s) 指定工程項目的規模和範圍	The project is to construct and operate a five-storey building comprising various facilities for vehicle washing and repair operation, parking of vehicles as well as offices.  工程項目為建造及營辦一座五層高的大樓,提供車輛清洗和維修設施、車輛停泊處及辦公室。

#### PART C (PERMIT CONDITIONS)

C部 (許可證條件)

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#### 1. General Conditions

一般條件

- 1.1 The Permit Holder and any person working on the Project shall comply with all conditions set out in this Permit. Any non-compliance by any person may constitute a contravention of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) and may become the subject of appropriate action being taken under the EIAO.
- 1.2 The Permit Holder shall ensure full compliance with all legislation from time to time in force including, without limitation to, the Air Pollution Control Ordinance (Cap. 311), Waste Disposal Ordinance (Cap. 354), Water Pollution Control Ordinance (Cap. 358) and Noise Control Ordinance (Cap. 400). This Permit does not of itself constitute any ground of defence against any proceedings instituted under any legislation or imply any approval under any legislation.
- 1.3 The Permit Holder shall make copies of this Permit together with all documents referred to in this Permit and the documents referred to in Part A of the Permit readily available at all times for inspection by the Director or his authorised officers at all sites/offices covered by this Permit. Any reference to the Permit shall include all documents referred to in the Permit and also the relevant documents in the Register.
- 1.4 The Permit Holder shall give a copy of this Permit to the person(s) in charge of the site(s) and ensure that such person(s) fully understands all conditions and all requirements incorporated in the Permit. The site(s) refers to site(s) of construction of the Project and shall mean the same hereafter.
- 1.5 The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrances/exits or at a convenient location for public's information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including any amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).
- 1.6 The Permit Holder shall construct and operate the Project in accordance with the project description in Part B of this Permit.
- 1.7 The Permit Holder shall ensure that the Project is designed, constructed and operated in accordance with the information and recommendations described in the approved EIA Report (Register No.: AEIAR-177/2013), the application document for environmental permit (Application No.: AEP-454/2013), other relevant documents in the Register, the information and mitigation measures described in this Permit, mitigation measures to be recommended in submissions that shall be deposited with or approved by the Director as a result of permit conditions contained in this Permit, and mitigation measures to be recommended under on-going surveillance and monitoring activities during all stages of the Project. Where recommendations referred to in the documents of the Register are not expressly referred to in this Permit, such recommendations are nevertheless to be implemented unless expressly excluded or impliedly amended in this Permit.
- 1.8 All deposited submissions, as required under this Permit, shall be rectified and resubmitted in accordance with the comments, if any, made by the Director within one month of the receipt of the Director's comments or otherwise as specified by the Director.
- All submissions approved by the Director, all submissions deposited without comments by the Director, or all submissions rectified in accordance with comments by the Director under this Permit shall be construed as part of the permit conditions described in <u>Part C</u> of this Permit. Any variation of the submissions shall be approved by the Director in writing or as prescribed in the relevant permit conditions. Any non-compliance with the submissions may constitute a contravention of the Environmental Impact Assessment Ordinance (Cap. 499). All submissions or any variation of the submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent

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Environmental Checker (IEC) referred to in Conditions 2.1 and 2.2 below, before submitting to the Director under this Permit.

- 1.10 The Permit Holder shall release all finalized submissions as required under this Permit, to the public by depositing copies in the Environmental Impact Assessment Ordinance Register Office, or in any other places, or any internet websites as specified by the Director, or by any other means as specified by the Director for public inspection. For this purpose, the Permit Holder shall provide sufficient copies of the
- All submissions to the Director required under this Permit shall be delivered either in person or by 1.11 registered mail to the Environmental Impact Assessment Ordinance Register Office (currently at 27/F, Southorn Centre, 130 Hennessy Road, Wanchai, Hong Kong). Electronic copies of all finalized submissions required under this Permit shall be prepared in Hyper Text Markup Language (HTML) (version 4.0 or later) and in Portable Document Format (PDF version 1.3 or later), unless otherwise agreed by the Director and shall be submitted at the same time as the hard copies.
- 1.12 The Permit Holder shall notify the Director in writing the commencement date of construction of the Project no later than one month prior to the commencement of construction of the Project. The Permit Holder shall notify the Director in writing immediately if there is any change of the commencement date of the construction.
- 1.13 For the purpose of this Permit, "commencement of construction works" does not include works related to site clearance and preparation, or other works as agreed by the Director.
- The Permit Holder shall notify the Director in writing the commencement date of operation of the Project no later than one month prior to the commencement of operation of the Project. The Permit Holder shall notify the Director in writing immediately if there is any change of the commencement date of the operation.

#### 2. Specific Conditions

#### Submissions and/or Measures before Commencement of Construction of the Project

#### Employment of Environmental Monitoring and Audit (EM&A) Personnel

- 2.1 An Environmental Team (ET) shall be established by the Permit Holder no later than one month before commencement of construction of the Project. The ET shall not be in any way an associated body of the Contractor or the Independent Environmental Checker (IEC) for the Project. The ET shall be headed by an ET Leader. The ET Leader shall be a person who has at least 7 years of experience in environmental monitoring and auditing (EM&A) or environmental management. The ET and the ET Leader shall be responsible for the implementation of the EM&A programme in accordance with the EM&A requirements as contained in the EM&A Manual of the Project. The ET Leader shall keep a contemporaneous log-book of each and every instance or circumstance or change of circumstances, which may affect the compliance with the recommendations of the EIA Report and this Permit. The ET Leader shall notify the IEC within one working day of the occurrence of any such instance or circumstance or change of circumstances. The ET Leader's log-book shall be kept readily available for inspection by all persons assisting in supervision of the implementation of the recommendations of the EIA Report and this Permit or by the Director or his authorized officers. Failure to maintain records in the log-book, failure to discharge the duties of the ET Leader as defined in the EM&A Manual of the Project or failure to comply with this Condition would entitle the Director to require the Permit Holder by notice in writing to replace the ET Leader. Failure by the Permit Holder to make replacement, or further failure to keep contemporaneous records in the log-book despite the employment of a new ET Leader may render the Permit liable to suspension, cancellation or variation.
- An IEC shall be employed by the Permit Holder no later than one month before commencement of 2.2 construction of the Project. The IEC shall not be in any way an associated body of the Contractor or the ET for the Project. The IEC shall be a person who has at least 7 years of experience in EM&A or

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environmental management. The IEC shall be responsible for duties defined in the EM&A Manual and shall audit the overall EM&A performance, including the implementation of all environmental mitigation measures, submissions required in the EM&A Manual, and any other submissions required under this Permit. In addition, the IEC shall be responsible for verifying the environmental acceptability of permanent and temporary works, relevant design plans and submissions under this Permit. The IEC shall verify the log-book(s) mentioned in Condition 2.1 of this Permit. The IEC shall notify the Director by fax, within one working day of receipt of notification from the ET Leader of each and every occurrence, change of circumstances or non-compliance with the EIA Report (Register No.: AEIAR-177/2013) and this Permit, which might affect the monitoring or control of adverse environmental impacts from the Project. In the case where the IEC fails to so notify the Director of the same, fails to discharge the duties of the IEC as defined in the EM&A Manual or fails to comply with this Condition, the Director may require the Permit Holder by notice in writing to replace the IEC. Failure to replace the IEC as directed or further failure to so notify the Director despite employment of a new IEC may render the Permit liable to suspension, cancellation or variation. Notification by the Permit Holder is the same as notification by the IEC for the purpose of this Condition.

#### Management Organization of Main Construction Company

2.3 The Permit Holder shall, no later than two weeks before the commencement of construction of the Project, inform the Director in writing the management organization of the main construction companies and/or any form of joint venture associated with the construction of the Project. The submitted information shall include at least an organization chart, names of responsible persons and their contact details.

#### Submission of Landscape and Visual Mitigation Plan of the Project

- 2.4 The Permit Holder shall, at least one month before the commencement of construction of the corresponding component(s) of the Project, submit four hard copies and one electronic copy of a Landscape and Visual Mitigation Plan(s) to the Director for approval. The Plan(s) shall include at least the following information:
  - one (1) existing tree to be retained in-situ at the location marked in Figure 2;
  - a tree compensation proposal showing the locations, size, number and species of trees to be planted, including the compensation of at least 27 trees of heavy standard size (100mm DBH), in accordance with the recommended tree species in Table 1 and Table 2; and
  - an updated landscape design for ground floor planting, vertical greening, roof gardens and hard (c) landscape features.

The Landscape and Visual Mitigation Plan(s) shall be certified by the ET leader and verified by the IEC as conforming to the information and recommendations of landscape and visual mitigation measures contained in the EIA Report (Register No.: AEIAR-177/2013).

### Submissions and/or Measures before and During Operation of the Project

#### Measures and Submission for Mitigating Landscape and Visual Impact before Operation of the Project

- 2.5 The landscape and visual mitigation measures shall be fully and properly implemented in accordance with the recommendations of the Landscape and Visual Mitigation Plan(s) approved under condition 2.4 above.
- 2.6 The Permit Holder shall, at least one month before the commencement of the operation of the Project, deposit with the Director four hard copies and one electronic copy of the As-Built Drawing(s) of the Project, which shall be certified by the ET Leader and verified by the IEC as conforming to the recommendations of the Landscape and Visual Mitigation Plan(s) approved under condition 2.4 above. The landscape and visual mitigation measures shall be properly maintained during operation of the

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Project.

#### Measures for Mitigating Odour Impact during Operation of the Project

- 2.7 All refuse collection vehicles shall be emptied of refuse prior to entering the Project.
- 2.8 To mitigate operational odour impact arising from the vehicle washing bays and the maintenance workshops of the Project:
  - the washing bays and maintenance workshops shall be enclosed in 3 sides and served with (a) mechanical ventilations to maintain with proper negative air pressure at all times during the washing bays and maintenance workshops operation; and
  - (b) a deodorisation system, with an odour removal efficiency of at least 85%, shall be installed, operated and properly maintained at the ventilation system prior to discharging any vented air outside the Project.

#### Measures for Mitigating Noise Impact during Operation of the Project

- 2.9 To mitigate operational noise impact from the repair activities from the vehicles, the following measures shall be implemented:
  - (a) all vehicle repair activities shall be limited to 0700 to 1900 hours only; and
  - all vehicle repair activities shall be carried out within the covered area of the transport workshop (b) section on ground floor of the Project as shown in Figure 2.
- 2.10 To minimise off-site traffic noise impact arising from the operation of the Project, all vehicles coming in or out of the Project shall use the in-bound and out-bound traffic routing as shown in Figure 3.

#### 3. Environmental Monitoring and Audit Requirements

- 3.1 The EM&A programme shall be implemented in accordance with the procedures and requirements as set out in the EM&A Manual. Any change to the EM&A requirements or programme shall be justified by the ET Leader and verified by the IEC as conforming to the relevant requirements set out in the EM&A Manual and shall seek the prior approval from the Director before implementation.
- Samples, measurements and necessary remedial actions shall be taken in accordance with the 3.2 requirements of the EM&A Manual by:
  - conducting baseline environmental monitoring; (a)
  - (b) conducting impact monitoring;
  - (c) carrying out remedial actions described in Event/Action Plans of the EM&A Manual in accordance with the time frames set out in Event/Action Plans, or as agreed by the Director, in case where specified criteria in the EM&A Manual are exceeded; and
  - logging and keeping records of details of all parameters within 3 working days of the collection of data or completion of remedial action(s), for the purpose of preparing and submitting the monthly EM&A Reports and to make available for inspection on site.
- 3.3 Four hard copies and one electronic copy of the Baseline Monitoring Report shall be submitted to the Director at least 2 weeks before the commencement of construction of the Project. The submissions shall be certified by the ET Leader and verified by the IEC as complied with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be

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provided upon request by the Director.

- 3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 10 working days after the end of each reporting month throughout the entire construction period. The monthly EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of submission shall be provided upon request by the Director.
- 3.5 All EM&A data submitted under this Permit shall be true, valid and correct.

#### 4. Electronic Reporting of EM&A Information

- 4.1 To facilitate public inspection of EM&A Reports via the EIAO Internet Website and at the EIAO Register Office, electronic copies of these Reports shall be prepared in Hyper Text Markup Language (HTML) (version 4.0 or later) and in Portable Document Format (PDF version 1.3 or later), unless otherwise agreed by the Director and shall be submitted at the same time as the hardcopies as described in Condition 3.3 and 3.4 of this Permit. For the HTML version, a content page capable of providing hyperlink to each section and sub-section of these Reports shall be included in the beginning of the document. Hyperlinks to all figures, drawings and tables in these Reports shall be provided in the main text from where the respective references are made. All graphics in these Reports shall be in interlaced GIF format unless otherwise agreed by the Director. The content of the electronic copies of these Reports must be the same as the hardcopies.
- 4.2 The Permit Holder shall, within six weeks after the commencement of construction of the Project, set up a dedicated web site and notify the Director in writing the Internet address where the environmental monitoring and project data is to be placed. All environmental monitoring data described in Condition 4.1 above shall be made available to the public via a dedicated web site to be set up by the Permit Holder in the shortest practicable time and in no event later than two weeks after the relevant environmental monitoring data are collected or become available, unless otherwise agreed with the Director. The Permit Holder shall maintain the dedicated website for public access of the environmental monitoring data and reports throughout the construction period of the Project, or otherwise as agreed by the Director.
- 4.3 The Internet website as described in Condition 4.2 above shall enable user-friendly public access to the monitoring and project data including the Project Profile, the approved EIA Report, the Environmental Permit(s) and all finalised submissions required under this Permit. The Internet website shall have features capable of:
  - (a) providing access to all environmental monitoring data collected since the commencement of works;
  - (b) providing access to all finalized submissions as required under this Permit;
  - (c) searching by date;
  - (d) searching by types of monitoring data; and
  - (e) hyperlinks to relevant monitoring data after searching;

or otherwise as agreed by the Director.

Table 1: Recommended Tree Species for Tree Compensation on Ground Floor\*

Tree Species suitable for Ground Floor Planting		
Ailanthus fordii (Ailanthus)	Melaleuca quinquenervia (Paper-bark tree)	

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Bauhinia purpurea (Hong Kong orchid tree)

Cassia surattensis (Sunshine Tree)

Grevillea robusta (Silky Oak)

Plumeria rubra (Red Frangipani)

Terminalia mantaly (Madagascar Almond)

Table 2: Recommended Tree Species for Tree Compensation on Roof Garden\*

Tree/Large Shrub Species suitable for Green Roof Planting		
Cassia surattensis (Sunshine Tree)	Osmanthus fragrans (Sweet Osmanthus)	
Lagerstroemia indica (Crape-myrtle)	Plumeria rubra (Red Frangipani)	

<sup>\*</sup>Based on Tree Assessment Schedule in EIA Report Appendix 8-5

#### Notes:

註:

 This Permit consists of three parts, namely, <u>Part A</u> (Main Permit), <u>Part B</u> (Description of Designated Project) and <u>Part C</u> (Permit Conditions). Any person relying on this permit should obtain independent legal advice on the legal implications under the EIAO, and the following notes are for general information only.

本許可證共有3部,即A部 (許可證主要部分); B部 (指定工程項目的說明) 及C部 (許可證條件)。 任何援引本許可證的人士須就環評條例的法律含意徵詢獨立法律意見,下述註解只供一般參考 用。

- 2. If there is a breach of any conditions of this Permit, the Director or his authorized officer may, with the consent of the Secretary for the Environment, order the cessation of associated work until the remedial action is taken in respect of the resultant environmental damage, and in that case the Permit Holder shall not carry out any associated works without the permission of the Director or his authorized officer. 如違反本許可證的任何條件,署長或獲授權人員徵得環境局局長的同意後可勒令停止相關工程,直至許可證持有人為所造成的環境損害採取補救行動為止。在此情況下,許可證持有人未經署長或獲授權人員同意,不得進行任何相關工程。
- 3. The Permit Holder may apply under Section 13 of the EIAO to the Director for a variation of the conditions of this Permit. The Permit Holder shall replace the original permit displayed on the Project site by the amended permit. 許可證持有人可根據環評條例第13條的規定向署長申請更改本許可證的條件。許可證持有人須把經修改的許可證替換在工程項目工地內展示的原有許可證。
- 4. A person who assumes the responsibility for the whole or a part of the designated project(s) may, before he assumes responsibility of the designated project(s), apply under Section 12 of the EIAO to the Director for a further environmental permit. 承擔工程項目整項或部分工程的責任的人,在承擔責任之前,可根據環評條例第12條的規定向署
  - 長申請新的環境許可證。
- 5. Under Section 14 of the EIAO, the Director may with the consent of the Secretary for the Environment, suspend, vary or cancel this Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site.
  根據環評條例第14條的規定,署長可在環境局局長的同意下暫時吊銷、更改或取消本許可證。遭暫時吊銷、更改或取消的許可證必須從工程項目工地除下,不再展示。
- If this Permit is cancelled or surrendered during construction or operation of the Project, another
  environmental permit must be obtained under the EIAO before the Project could be continued. It is an
  offence under Section 26(1) of the EIAO to construct or operate a designated project listed in Part 1 of

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Schedule 2 of the EIAO without a valid environmental permit.

如果本許可證在工程項目建造或營辦期間取消或交回,則在繼續進行工程項目之前,必須先根據 環評條例規定取得另一份環境許可證。根據環評條例第26(1)條的規定,任何人在沒有有效環境許 可證的情況下建造或營辦環評條例附表2第1部所列明的指定工程項目,即屬犯罪。

- Any person who constructs or operates the Project contrary to the conditions in the Permit, and is convicted of an offence under the EIAO, is liable: 如任何人在違反本許可證的條件下建造或營辦工程項目,根據環評條例,即屬犯罪-
  - on a first conviction on indictment to a fine of \$2 million and to imprisonment for 6 months;
     一經循公訴程序首次定罪,可處罰款200萬元及監禁6個月;
  - on a second or subsequent conviction on indictment to a fine of \$5 million and to imprisonment for 2 years;
    - 一經循公訴程序第二次或其後每次定罪,可處罰款500萬元及監禁2年;
  - (iii) on a first summary conviction to a fine at level 6 and to imprisonment for 6 months;一經循簡易程序首次定罪,可處第6級罰款及監禁6個月;
  - (iv) on a second or subsequent summary conviction to a fine of \$1 million and to imprisonment for 1 year; and
    - 一經循簡易程序第二次或其後每次定罪,可處罰款100萬元及監禁1年;及
  - in any case where the offence is of a continuing nature, the court or magistrate may impose a
    fine of \$10,000 for each day on which he is satisfied the offence continued.
    在任何情況下如該罪行屬連續性質,法院或裁判官可就其信納該罪行連續的每一天另處罰款10,000元。
- 8. The Permit Holder may appeal against any condition of this Permit under Section 17 of the EIAO within 30 days of receipt of this Permit.
  許可證持有人可在接獲本許可證後30天內,根據環評條例第17條就本許可證的任何條件提出上訴。
- 9. The Notes are for general reference only and that the Permit Holder should refer to the EIAO for details and seek independent legal advice.

  上述註解只供一般參考用,欲知有關詳情,許可證持有人須參閱環評條例及徵詢獨立法律意見。

#### Environmental Permit No. EP-454/2013

環境許可證編號EP-454/2013

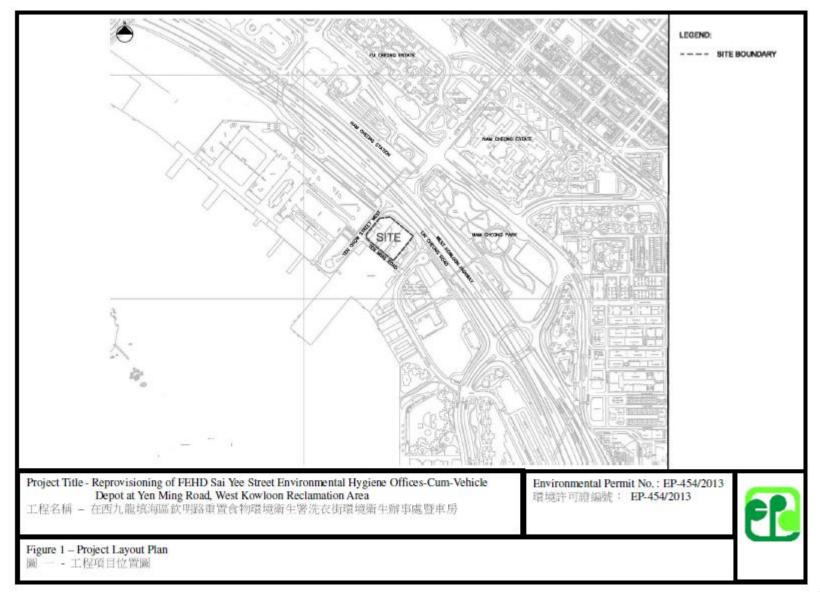
Figure 1 | Figure 2 | Figure 3

[ Back to First Page ] / [ Back to Main Index ]

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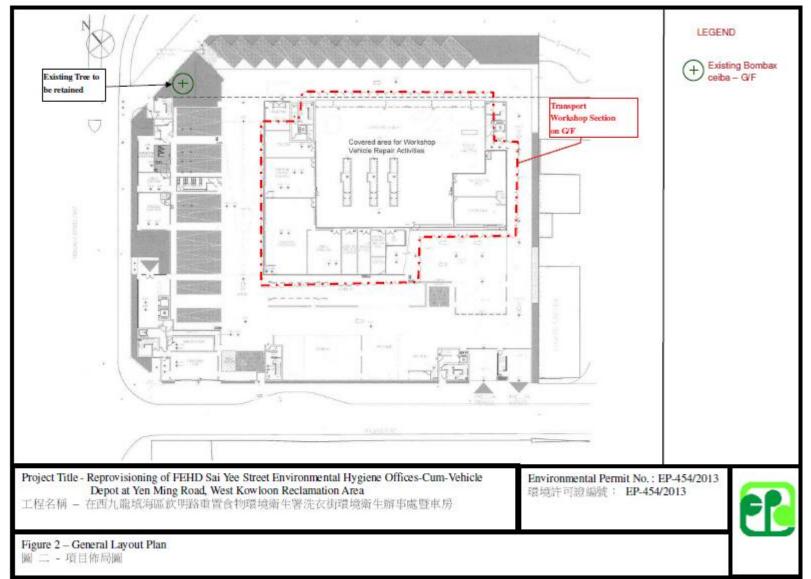
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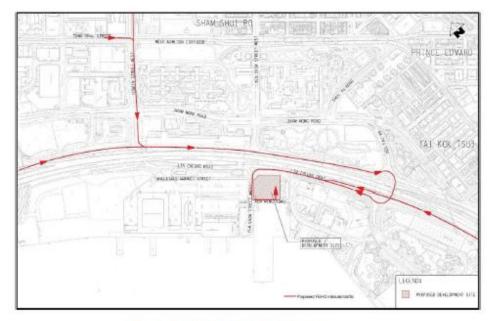




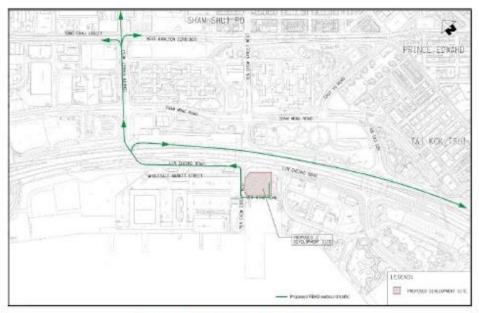


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#### IN-BOUND TRAFFIC ROUTING



#### OUT-BOUND TRAFFIC ROUTING

Project Title - Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area

工程名稱 - 在西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車房

Figure 3 – In-bound and Out-bound Routing of the FEHD Traffic 圖 三 - 食物環境衛生署的車隊出入路線

Environmental Permit No.: EP-454/2013 環境許可證編號: EP-454/2013



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#### (b) Discharge License

本署檔號 Our Ref: **Environmental Protection Department Environmental Compliance Division** EP482/269A/0017/I/164099 來函檔號 Regional Office (East) 區域辦事處(東) Your Ref. 5th Floor, Nan Fung Commercial Centre, 香港九龍九龍灣臨樂街 Tel. No.: 19 Lam Lok Street, Kowloon Bay, 十九號南豐商業中心五樓 **顧文傳真** 2117 7539 Kowloon, Hong Kong 2756 8588 CC KKFu/ Telemix 電子郵件 E-Mail: Homepage: http://www.epd.gov.hk/

#### BY REGISTERED POST

China Road and Bridge Corporation Flat 07-11, 23A/F., K. Wah Centre, 191 Java Road, North Point, Hong Kong (Attn.: Chung Wai Hoi)

Dear Sir / Madam,

Water Pollution Control Ordinance (WPCO) Junk Bay / Port Shelter / Mirs Bay / Eastern Buffer / Victoria Harbour (Phase I / II) Water Control Zone

Application for a licence to discharge from

Construction Site of Reprovisioning of Food and Environmental Hygiene Department Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area

In response to your above application dated 11 December 2015, I enclose herewith a licence granted under the WPCO.

The granting of the licence does not imply that your discharge has complied with the licence's requirements. You should therefore read the terms and conditions of the licence carefully, particularly regarding the place, quality and rate of discharge as well as the sampling, treatment, disposal and site management requirements and ensure that they are fulfilled.

If there is any uncertainty about the terms and conditions of the licence, please contact Ms Y L TSANG at Tel. 2117 7546. If that is not resolvable, you may lodge an appeal in the prescribed manner and form with the Water Pollution Control Appeal Board within 21 days after receipt of the licence.

Thank you for your effort in protecting the environment.

Yours faithfully,

( CHAN Kin Ki ) Environmental Protection Officer Regional Office (East) Environmental Compliance Division

for Director of Environmental Protection

reci<u>Encl.</u>dater

The Original WPCO Licence

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掛號函件

先生/女士:

水污染管制條例 <del>將軍澳 / 牛尾海 / 大鵬灣 / 東部緩衝區 /</del> 維多利亞港 (第<del>一 /</del> 二期) 水質管制區

<u>申領牌照於西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車房</u> <u>之建築地盤排放污水</u>

有關你於 <u>2015年12月11日</u> 就上址申領污水排放牌照,本署現在附上按上述條例簽發的牌照,請你查收。

發出這牌照並非代表你的排放已符合牌照上的要求,你必須細閱牌照的條文和 條款,確保排放點、污水成份和流量、與及抽取樣本、處理設施、棄置及設施管理方 面能符合牌照要求。

若你就牌照的條文及條款有任何疑問,請致電 <u>2117 7546</u> 與 <u>曾玉玲</u>小姐聯絡。如未能解決,你亦可在領到牌照後二十一日內,以指定的方式和表格,向水污染管制上訴委員會提出上訴。

多謝你致力保護環境。

環境保護署署長 環保法規管理科 區域辦事處(東) (環境保護主任 陳健基 代行)

年 月 日

隨函附件:水污染管制牌照正本

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Licence No.: WT00023331-2015

This Licence is Valid to :31 January 2021 本牌照有效期至: 二〇二一キー月三十一日

# ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

WATER POLLUTION CONTROL ORDINANCE (CAP. 358) 水污染管制條例(第358章)

LICENCE PURSUANT TO SECTION 15/20/23A\* 按第15 / 20 / 23A\*條簽發的牌照

The Director of Environmental Protection ("the Authority") grants this licence under the Water Pollution Control Ordinance ("the Ordinance") on the terms and conditions stated below.

環境保護署署長(「監督」)按下列的條款及條件,根據水污染管制條例(「本條例」)批給此牌照。

22 January 2016

Date

日期

( CHAN Kin Ki ) For the Authority

監督 ( 陳 健 基 代行)

PARTA 甲部 : GENERAL TERMS 一般條款

Name of Licensee ("the Licensee")	China Road and Bridge Corporation
持 牌 人 名 稱 (「持 牌 人」)	中國路橋工程有限責任公司
Discharge Premises ("the premises") 排放處所(「處所」)	Construction Site of Reprovisioning of Food and Environmental Hygiene Department Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area (See Annex) 西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車房之建築地盤(參考附件)
Water Control Zone	Victoria Harbour (Phase II)
水 質 管 制 區	維多利亞港(第二期)
Discharge Category	Discharge of Industrial/ <del>Commercial/Institutional*</del> Trade Effluent
排 放 種 類	工業 <del>/商業/機構</del> *污水排放
Nature of Discharge and Wastewater Treatment Facilities 排放性質及廢水處理設施	Effluent arising from construction site 由建築工程所產生的廢水 Sedimentation Tank 沉澱池
Discharge Point(s)	Discharge into communal storm water drain
排 放 點	排放入公用雨水渠
Sampling Point(s) 取 樣 點	Sampling point at discharge outlet of the treatment facilities 取樣點位於處理設施之出水口

\*Delete as appropriate 将不適用者酬去

Reference No. 参考编號 EP482/269A/0017/I/164099

- 1 -

EPD156

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#### SPECIFIC CONDITIONS 特別條件 PARTB 乙部

## B1. Limitations on Discharge 排放限制

The quantity and composition of any discharge from the premises shall not exceed the limits stated in the table below(Note a). All figures are upper limits unless otherwise indicated. All units are expressed as concentration in milligramme per litre unless otherwise stated.

任何源自處所之排放的量和成份不得超過下表所列的限度。除另予表明外,所有數字均為上限。除另予說明 外,所有單位均以毫克/升的濃度表示。

Limit 限度
20
30
80
6-9#

<sup>#</sup>Range 上下限

# B2. Self-monitoring and Reporting 自行監測及報告

The Licensee shall perform self-monitoring as and when required by the Authority. 持牌人須在監督要求時進行自行監測。

The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:-

持牌人須在取樣點為排放抽取樣本,並依照下列指定的測量物、取樣形式及頻率,自資予以分析。

Determinand 測量物

Unit 單位

Sample Type 取樣形式

Frequency 頻率

Results of these monitoring shall be summarized in a report on a monthly/bi-monthly/quarterly\* basis and shall be submitted to the Authority.

所有監測結果須以摘要形式,每一個月/兩個月/三個月\*作出紀錄,並呈交審閱。

EPD156

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STANDARD CONDITIONS 標準條件 PART C 丙部

#### C1. The Discharge 排放

- The discharge shall not contain polychlorinated biphenyls (PCB), polyaromatic hydrocarbon (PAH), fumigant, pesticide or toxicant, chlorinated hydrocarbons, flammable or toxic solvents, calcium carbide; any substance likely to damage the sewer or to interfere with any of the treatment processes, or to be harmful to the health and safety of any personnel engaged in the operation or maintenance of a sewerage system; waste liable to form scum or deposits in any part of the drainage or sewerage system, or the waters of Hong Kong; waste liable to form discolouration in any parts of the waters of Hong Kong; sludge, floatable substances or solids larger than 10 mm; and sludge or solid refuse of any kind. 排放不得含有多氯聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣;會損 毀污水渠結構或干擾任何處理程序的物質,或有損操作及維修排污系統人員健康及安全的任何物質;足以 在排水或排污系統,或香港水域任何範圍內形成浮渣或沉積物的廢物;足以在香港水域任何範圍內形成變 色的廢物;污泥、漂浮物質或體積超越 10 毫米的固體;及任何種類的污泥或固體垃圾。
- C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists. 除非避免人命傷亡或嚴重財物損失或無其他可行代替辦法,排放不得繞流不經其廢水處理設施,取樣點或 排放點。
- C1.3 Dilution of the discharge to achieve compliance with the limits contained in this licence is prohibited. 不得將排放稀釋,以求達到本牌照內所訂的限度。

#### C2. Flow Measurement 量度流量

The Licensee shall determine the flow rate of the discharge by installing, operating and maintaining a continuous flow measuring device with an accuracy certified by its manufacturer to be within plus or minus 3 percent of the actual flow, and calibrating the flow measuring device regularly according to manufacturer's recommendations. If no such device is installed, the Licensee shall determine the flow rate through using calculation methods agreed by the Authority, by making reference to the amount of water used in the premises being served by mains supply and other sources, less process consumption and any other losses.

持牌人必須設置、操作及保養一個連續性流量計作為測定排放的流量率之方法,其準確程度須經製造商證實為不 超逾或低於真正流量的3%,並應根據製造商建議的方法,定期校準流量計。如沒有設置該設備,持牌人須依照 監督同意的計算方法,根據處所由自來水及其他水源供應的總用水量減去工序耗水量及其他耗水量來測定流量 寒。

#### C3. Treatment 處理

- C3.1 The Licensee shall provide necessary wastewater treatment facilities, and shall engage personnel with adequate qualification and experience to properly operate and maintain all wastewater treatment facilities at all times. Standby equipment shall be provided to guard against failure of major treatment
  - 持牌人須提供必需的廢水處理設施,並須僱用有足夠資格及經驗的人士,時常妥善操作及保養所有廢水處 理設施。主要處理設施須配有後備裝置,以應付故障發生。
- C3.2 In the event of loss of efficiency of operation, or failure of all or part of the wastewater treatment facility, the Licensee shall take all reasonable steps to the extent necessary to maintain compliance with this licence. Such steps shall remain until operation of the wastewater treatment facility is restored or an alternative method of treatment is provided.
  - 倘若部份或整個廢水處理設施操作失靈或發生故障,持牌人須採取所有必要的合理措施,以求達到符合本 牌照的規定。此等措施須維持至廢水處理設施恢復如常操作或有其他代替的處理方法可供採用為止。
- C3.3 If the wastewater treatment facilities are not properly operated and maintained to the satisfaction of the Authority, the Licensee shall take immediate and effective remedial actions as required by the
  - 倘若廢水處理設施的操作及保養未能令監督滿意,持牌人須按監督之規定,採取即時及有效的補救行動。

#### C4. Disposal 棄置

Sludges, screenings, solids, oil and grease, filter backwash, or other pollutants removed in the course of treatment shall be disposed of in a proper manner  $^{\text{Note b \& c}}$ .

處理過程中所產生的污泥、隔濾物、固體、油脂、過濾器回洗或其他污染物,必須妥善地棄置(附底 ) & ()

EPD156

Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, N.T., Hong Kong

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#### C5. Monitoring 監測

- C5.1 The Licensee shall provide and maintain suitable facility such as an inspection chamber, manhole or sampling valve at each Sampling Point to enable duly authorized officer(s) of the Authority to take samples of the discharge at any time from the premises.
  - 持牌人須在每一個取樣點提供及保養適當的設施,例如檢查槽,沙井或取樣閥,以確保獲監督授權的人員 隨時可在處所內抽取排放樣本。
- C5.2 For self-monitoring, "grab samples" shall be taken during the period when the determinand to be analyzed for is likely to be present in its maximum concentration. "Composite samples" shall include samples taken over daily duration of the discharge.
  - 在自行監測中,「隨意取集樣本」須在測量物的濃度很可能是最高的那段時間內抽取。「綜合樣本」須包含在每日排放期間不同時候所抽取的樣本。
- C5.3 For self-monitoring, all samples shall be analyzed in accordance with the most updated analytical methods used by the Government Chemist (Note d).
  - 在自行監測中,所有樣本均須按照政府化驗師所採用的最新分析方法予以分析(MEG)。

#### C6. Records and Reporting 紀錄及報告

C6.1 The Licensee shall keep the following records in the premises for inspection by duly authorized officer(s) of the Authority:

持牌人須在處所內保存下列紀錄,以備獲監督授權的人員隨時查閱:

- records of flow rate, nature and composition of the discharge; 排放流量率、性質及成份的紀錄;
- (ii) updated records of all monitoring information, including all laboratory analytical results relating to samples taken, all original chart recordings for continuous flow and pH monitoring; and 所有最新監測資料的紀錄,包括所有關於已取樣本的檢驗分析結果、所有連續性流量及酸鹼值監測 記錄圖表的正本;及
- (iii) records of all desludging and degreasing operation, and records of corresponding disposal operation.

所有清除污泥和清理隔油池廢物工序的紀錄,及其棄置工序的紀錄。

Copies of all such records shall be submitted to the Authority upon request. 在監督要求時,須向監督呈交所有該等紀錄的副本。

C6.2 The Licensee shall notify and explain to the Authority within 24 hours upon the occurrence of an accidental discharge or any emergency bypass or an overflow of untreated effluent or an operation upset which places the discharge in a temporary state of non-compliance with this licence. The Licensee shall within 7 days following the incident, submit to the Authority a detailed report in writing on the cause and duration of the non-compliance and steps taken or to be taken to reduce, eliminate, or prevent recurrence of such non-compliance. Reporting in accordance with this Condition does not relieve the Licensee of any obligations imposed by this licence.

倘若有未經處理的污水意外排放、緊急繞流或溢滿的事件或操作失靈,引至排放出現短暫不符合牌照規定的情況,持牌人須在事發後 24 小時內立即知會監督並予以解釋。持牌人須在事故發生後 7 天內,以書面報告,詳述事件的起因、違反牌照條件的時間及為減少、消除或防止類似事件再次發生所採取或將會採取的措施,送交監督審閱。然而,按照本條件的規定提交報告並不表示持牌人可獲免除承擔本牌照內所載的任何責任。

#### C7. Operation Manual 操作手冊

The Licensee shall prepare an operation manual which shall include, as a minimum, operating procedures, inspection programme and repair and maintenance programme for the wastewater treatment facilities. The operation manual shall be kept at the aforesaid wastewater treatment facilities and a copy of the manual shall be submitted to the Authority upon request.

持牌人須擬備廢水處理設施的操作手冊。手冊內容須最低限度包括操作程序、檢查、維修及保養工作計劃表。該 手冊須保存在上述廢水處理設施內。持牌人須在監督要求時,呈交手冊副本乙份。

#### C8. Notification of Change 更改通知

The Licensee shall notify the Authority in writing within 14 days of any changes or proposed changes in the processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition of the discharge or may result in the permanent cessation of the discharge.

倘若持牌人更改或擬更改其生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久 性終止排放的事情,必須在14日內以書面通知監督。

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#### Notes 附註

- (a) For the purposes of determining compliance with the limits stated in Specific Condition B1, samples shall be taken by the duly authorized officer(s) of the Authority at the Sampling Point(s) or any other points from which the samples so taken are regarded by the Authority as being representative of the quality of the discharge. When any single sample analyzed for a determinand is proved not complying with corresponding limit set out in the table, the discharge is deemed to have failed to comply with Specific Condition B1.
  - Condution B1. 為確定排放是否符合特別條件第 B1 項內所列的限度,獲監督授權的人員須在取樣點或在監督認為可以抽取到具代表性 的樣本的任何其他位質抽取樣本。只要在任何一個經分析的樣本中,證實任何一個測量物不符合表中所列的相應限度時, 排放即被視為不符合特別條件第 B1 項。
- (b) An example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal. 妥善棄置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。
- (c) Proper disposal of grease trap waste includes but is not limited to employing any reputable firm or collector who will use the right equipment and dispose of the collected grease trap waste at West Kowloon Transfer Station. The updated list of grease trap waste collectors who are using the disposal service at West Kowloon Transfer Station is maintained in the EPD website and Green Restaurant website.

妥善的隔油池廢物棄置方法包括卻不限於聘用任何信譽良好的公司/收集商使用適當的設備在西九龍廢物轉運站棄置所收集的隔油池廢物。環保署網站及環保食肆網均載有目前使用西九龍廢物轉運站棄置隔油池廢物的收集商最新名單。

- (d) The Licensee may make reference to Annex 1 of the <Technical Memorandum on Effluent Standards> for analytical methods used by the Government Chemist. 持牌人可參照「流出物標準技術備忘錄」附件 1 有關政府化驗師所採用的分析方法。
- (e) The Licensee shall keep this licence in the premises and make it available at all times for inspection by duly authorized officer(s) of the Authority.

  持牌人須在處所內保存此牌照,以備獲監督授權的人員隨時查閱。
- (i) The Licensee shall allow duly authorized officer(s) of the Authority to enter the premises for the purposes of inspection, sampling, records examination or any other duties authorized by Section 37 and Section 38 of the Ordinance. 持牌人須准許獲監督授權的人員進入處所內進行檢查、抽取樣本、審查紀錄或執行其他根據本條例第 37 及第 38 條所授權的職務。
  - (ii) Where the premises has security measures in force which would require proper identification and clearance before entry, the Licensee shall make necessary arrangements such that upon presentation of evidence of identity and of authorization, duly authorized officer(s) will be permitted to enter, without delay, for the purposes of performing duties. 倘若由於處所的保安理由而需先行鑑定來人的身份,持牌人必須作出必要的安排,以便獲授權人員在出示身份證明及授權文件後,即可內進執行其職務而不致受延誤。
- (g) (i) For a licence granted under Section 15 of the Ordinance, the Licensee may, not less than 2 months before expiry of the licence, apply under Section 19 of the Ordinance for a new licence. The Authority may grant the licence or otherwise. 持有根據本條例第 15 條所批給牌照的人士,可於牌照屆滿前不少於 2 個月內,根據本條例第 19 條的規定,申請一面新牌照。監督可批給或拒絕批給牌照。
  - (ii) For a licence granted under Section 20 or 23A of the Ordinance, the Licensee may, not more than 4 months and not less than 2 months before expiry of the licence, apply under Section 23 or 23A respectively of the Ordinance for renewal of licence. The Authority may renew the licence or otherwise. 持有根據本條例第 20 條或第 23 A 條所批給牌照的人士,可於牌照屆滿前不多於 4 個月及不少於 2 個月內,根據本條例的第 23 或 23 A 條的規定,申請牌照續期。監督可將牌照續期或拒絕將牌照續期。
- (h) Under Section 24 of the Ordinance, the Authority may by notice in writing, impose new or amended terms and conditions on this licence or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose licence has been so varied or cancelled may be entitled to compensation.

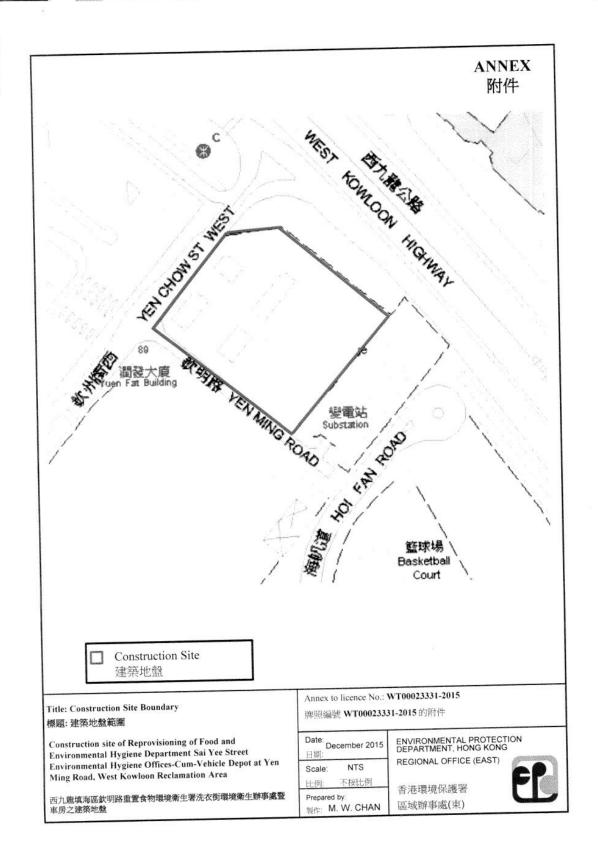
  根據本條例第 24 條的規定,監督可以書面通知,向本牌照施加新訂或經修訂的條款及條件,或取消本牌照。根據本條例第 25、26 及 27 條的規定,被更改或取消牌照的持牌人可能會獲得補償。
- (i) Under Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence. 根據本條例第 28 條的規定,持牌人可向監督申請更改本牌照。
- (j) Under Section 49 of the Ordinance, this licence shall not be construed as a dispensation from the requirements of any other Ordinance except where that other Ordinance so provides. 根據本條例第 49 條的規定,本牌照並不得解釋為豁免符合任何其他條例的規定,除非該其他條例如此訂定。
- (k) The licensee should ensure good practice is carried out in dealing with discharges from the construction site. The licensee should make reference to the EPD's Practice Note for Professional Persons, No. PN 1/94, "Construction Site Drainage". 持牌人須確保妥善處理地盤之去水排放。持牌人可参考環保署印發之 Practice Note for Professional Persons, 編號 PN 1/94, "Construction Site Drainage".

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環境保護署

環保法規管理科

香港九龍九龍漫臨樂街

十九號南豐商菜中心五樓

#### (c) Chemical Waste Producer Registeration

本著檢號 Our Ref: 來函檢號 Your Ref: 電 話 Tel. No.: 2117 7539 服文修真 Fax No.: 2756 8588 電子軟件 E Mailtr

E-Mail:

Homepage: http://www.epd.gov.hk/

By Registered Post

Environmental Protection Department Environmental Compliance Division Regional Office (East) 5th Floor, Nan Fung Commercial Centre,

5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong,

DECEIVE 1 2 1 1111 2012

BY:----

NORTH POINT, HONG KONG

CHINA ROAD AND BRIDGE CORPORATION FLAT 07-11, 23A/F., K.WAH CENTRE, 191 JAVA ROAD,

Dear Sir/Madam,

Waste Disposal Ordinance (Cap. 354)
Waste Disposal (Chemical Waste) (General) Regulation
Registration as a Chemical Waste Producer
Completion of Registration

I am pleased to inform you that your registration with this department as a chemical waste producer has been completed.

The assigned Waste Producer Number (WPN) and the particulars of your establishment are printed in the enclosed form (EPD 130). If you consider there are any discrepancies about the particulars, please notify me immediately, quoting the assigned WPN.

The "EPD 130" is an important document, please archive appropriately. This registration is not transferable and will be valid only in respect of the applicant and the premises registered. In future when there is change in the registration particulars, you should inform this department as soon as possible so that our record can be amended accordingly. Under section 7 of the above regulation, failure to notify this department of relevant changes is an offence and liable to a maximum fine of HK\$10,000.

For enquiries, please contact us at Tel 2117 7546.

Yours faithfully,

( CHAN Kin Ki )
Environmental Protection Officer
for Director of Environmental Protection

Encl.



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#### **Environmental Protection Department** 環境保護署

Waste Disposal Ordinance (Chapter 354)

香港法例第354章廢物處置條例

				I(Chemical Wa 物處置(化學廢物		Regulation		
				gistration of Wa 廢物產生者登	ste Producer			
1 to	Chemical Waste Producer	Full Name 全 名	(English) (英文)	CHINA ROAD AI	ND BRIDGE CO	RPORATION		
18	上學廢物產	(Chinese) (中 文)	中國路橋工程			D. Card No. (i 份證號碼:(如	,,	***
3	者	商業登記部	. Cert. No. (if an 注號碼: (如 orrespondence	有者) 16058	3447-000-08-15	5-A		
				3A/F., K.WAH C	ENTRE, 191 JA	VA ROAD, NO	ORTH POINT, H	HONG
		Tel. No. 電話:	2283	1688	Fax No 圖文傳3	i.	2283 1689	
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Le oi Pi w w pi 產的	F廢物產生者編號第     5   2   1   3   2   6   9   C   1   2   3   2   1   8   號,予下開地點或處所: —       Location or Premises where the waste is produced 產生廢物 的地點或處所     Name of Establishment 性機							
	Address 地 址: REPROVISIONING OF FOOD AND ENVIRONMENTAL HYGIENE DEPARTMENT SAI YEE STREET ENVIRONMENTAL HYGIENE OFFICES-CUM-VEHICLE DEPOT AT YEN MING ROAD, WEST KOWLOON RECLAMATION AREA							
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change in his registration particulars commits an offence and is liable on conviction to a fine of \$10,000.

告 : 任何已登記的廢物產生者,若其登記資料有任何改變而不知會環境保護署署長,即屬違法,被定罪者最高罰款 港幣10,000元。

EPD 130 (Nov 2012)

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#### (d) Billing Account for Disposal of Construction Waste

本署檔號 OUR REF.: RT01354 來函檔號 YOUR REF.: 電話 TEL. NO.:

2872 1769 图文傳真 FAX NO,: 2591 0361 HOMEPAGE: http://www.epd.gov.hk **Environmental Protection Department** Environmental Infrastructure Division

> 88 Victoria Road, Kennedy Town, Hong Kong

環境保護署 環境基建科

域多利線 88 號

Monday, 21 December, 2015

CHINA ROAD AND BRIDGE CORPORATION FLAT 07-11, 23A/F, K. WAH CENTRE, 191 JAVA ROAD, NORTH POINT,

HONG KONG

Attn.: VINCENT CHUNG Dear Sir/Madam,

SPIMIT.

Waste Disposal (Charges for Disposal of Construction Waste) Regulation Approval of Application for Billing Account (Construction work contract with value of \$1 million or above) Application No.: RT01354

I am pleased to inform you that your application for billing account for disposal of construction waste under the following construction work contract has been approved under Section 6 and 9 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation:

Contract No.: SS D505

Contract Name: REPROVISIONING OF FEHD SAI YEE STREET ENVIRONMENTAL HYGIENE OFFICES-CUM-VEHICLE DEPOT AT YEN MING ROAD, WEST KOWLOON RECLAMATION AREA (PROGRAMME NO. 182GK)

Construction Waste Generated Site: YEN MING ROAD, WEST KOWLOON RECLAMATION

The account number is 7024032. Please quote this account number for enquiries in relation to the billing account.

You are bound by the "Basic Conditions" and "Conditions of Use" accompanied with this account for disposal of construction waste at the prescribed facilities. You shall ensure that (a) the billing account established solely for the contract as stated above is used for paying any prescribed charge payable in respect of construction waste generated from construction work undertaken under the above contract; and (b) that billing account is not used for paying any prescribed charge payable in respect of any other construction waste not generated from construction work undertaken under the contract as stated above.

Regarding your application for issuance of chits, a demand note for the deposit required will be sent to you accordingly. Request for additional chits can be made using "Form 4". Please note that one chit is required for each load of construction waste to be disposed of at prescribed facility.

Should you have any queries, please contact us at 2872 1769.

Yours faithfully,

(C F Wong)

Principal Environmental Protection Office for Director of Environmental Protection





Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



#### (e) Construction Noise Permit

本等概率

OUR REF: (4) in EP632/K03/RE408075-16

來函檔案 YOUR REF:

TEL NO: 2150 8017

國文傳真

FAX NO: 2402 8275

HOVEPAGE: http://www.epd.gov.hlc

**Environmental Protection Department Environmental Compliance Division** Regional Office (East) &F., Cheung Sha Wan Government Offices 303 Cheung She Wan Road



環保法規管理科 區域辦事處(東) 九親長沙灣道 303 號 長沙灣政府合署8模

Registered Post

07 October 2016

To:

Tysan Foundation Limited 20/F., One Island South, 2 Heung Yip Road,

Wong Chuk Hang, Hong Kong

Dear Sirs,

Notice of Issue of Construction Noise Permit pursuant to Section 8(6) of the Noise Control Ordinance (Cap. 400)

I write to inform you that, under section 8(6) of the Noise Control Ordinance, the Authority has decided to issue a construction noise permit in respect of your application, which was received by the Authority on 27 September 2016, for carrying out percussive piling at Construction site at the junction of Yen Chow Street West and Yen Ming Road, West Kowloon Reclamation Area, Tai Kok Tsui, Kowloon.

The construction noise permit No. PP-RE0028-16 is enclosed.

If you are aggrieved by the decision of the authority in respect of your application, you may, pursuant to section 18 of the Noise Control Ordinance, appeal to the Appeal Board within 21 days after the service of this notice in such manner and form prescribed under the Noise Control (Appeal Board) Regulations.

Yours faithfully,

(WONG Chun Yin Johnny) for Authority

B(RW)52

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



#### FORM 4 NOISE CONTROL ORDINANCE (Chapter 400) SECTION 8(9)

# CONSTRUCTION NOISE PERMIT FOR THE CARRYING OUT OF PERCUSSIVE PILING

TYSAN FOUNDATION LIMITED  This construction noise permit is issued in accordance with section 8 of the Noise C granted for the carrying out of percussive piling, subject to the conditions set out below illing otherwise than in accordance with the conditions may result in the permit being or an offence,  CONDITIONS  Construction site where percussive piling may be carried out:  Full street address: Construction site at the junction of Yen Chow Street Wes	w. The carrying out of percussiv
ranted for the carrying out of percussive piling, subject to the conditions set out below alling otherwise than in accordance with the conditions may result in the permit being or an offence.  CONDITIONS  Construction site where percussive piling may be carried out:	w. The carrying out of percussiv
. Construction site where percussive piling may be carried out;	
Full street address: Construction site at the junction of Yen Chow Street Wes	
Kowloon Reclamation Area, Tai Kok Tsui, Kowloon. Lot No.:	t and Yen Ming Road, West
The piling zone, that is, the area within which percussive piling may take place is which forms part of this construction noise permit.	s delineated on the attached plan
Porcussive piling method and pile type which may be used in the piling zone:	
Piling method and pile type	No. of units
Hydraulic hammer (single acting) driving steel pile	One
Validity of the construction noise permit:	· · · · · · · · · · · · · · · · · · ·
Days and hours: 0700-1900 hours on all days except general holidays (inclu- Conditions" below for the operating hours within which the carrying out of the allowed].  This pennit expires on: 31 March 2017	
This construction noise permit or a copy thereof must be displayed on the constentrances/exits for public information.	truction site at all vehicular site
Other Conditions	
. The above listed percussive piling method and pile type shall only be used during	the hours shown below:
Any day not being a general holiday 1225 hours to 1340 hours AND 1530 hours to 1830 hours	
A sale and a sale and	7
ated this 07th day of October 2016	
Signed:	
NOW)	VG Chun Yin Johnny)
	for Authority
10 1709	
**	

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



(4) in EP632/K03/RE408075-16

2150 8017 2402 8275

排號兩件

致:

香港黄竹坑

香葉道2號

One Island South 20 樓 泰昇地基工程有限公司

執事先生:

根據《噪音管制條例》(第 400 章)第 8(6)條 發出的通知書 — 簽發「建築噪音許可證」

本監督在二零一六年九月二十七日接獲你擬於九龍大角咀西九氟填海區飲州街西 及飲明路交界的建築地盤,進行撞擊式打樁工程而提出的「建築噪音許可證」申請,現根 諱《噪音管制條例》第8(6)條的規定通知你,上述的申請已被批准。

隨函附上「第 PP-RE0028-16 號建築噪音許可證」。

如對監督的決定感到受委屈,可根據《噪音管制條例》第18條,在本通知送達後 21日內,按《噪音管制(上訴委員會)規例》所訂明的方式和格式向上訴委員會提出上訴。

监督

(黃鎮賢



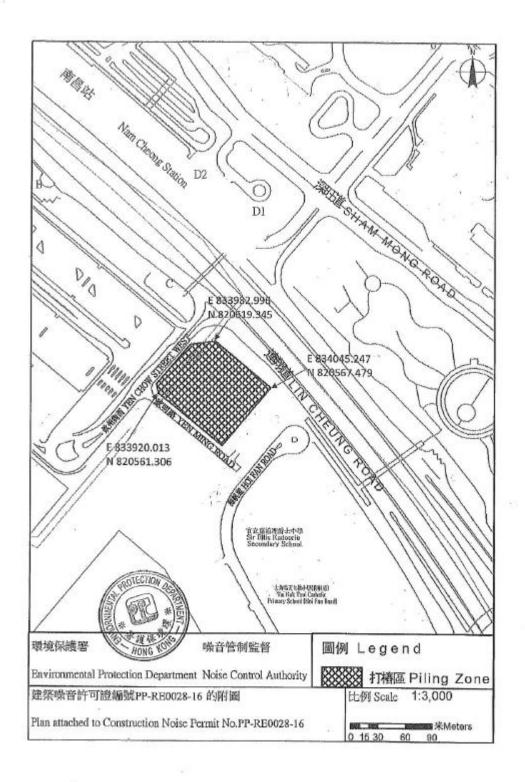
代行)

副本送: E(RW)52

二零一六年十月七日

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com





Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



FORM 3 NOISE CONTROL ORDINANCE (Chapter 400) SECTION 8(9)

# CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

CONST	FRUCTION NOISE PERMIT N	O. GW-RE1081-16			
To: Cl	hina Road and Bridge Corporation				
powered prescribe	struction noise permit is issued in acc mechanical equipment for the purposed ed construction work, subject to the con itions may result in the permit being car	se of carrying out construction work ditions set out below. The carrying of	k other than percussive out of construction work	piling and/or	the carrying out of
		CONDITIONS			
1. Con	struction site where the powered mecha	unical equipment and/or prescribed co	nstruction work may be	employed:	
	l address : Construction site at junction				Area, Mong
	k, Kowloon			No.:	
	site boundary, that is, the boundary of struction work may be carried out is del				
2. * P/	ART/WHOLE of the site falls * WITHI	N/OUTSIDE a designated area.			
3. Pow	vered Mechanical Equipment				
a.	Items of powered mechanical equipme	ent which may be used inside the site	boundary:		
	Identification code of item of powered mechanical equipment (if applicable)		on of item of anical equipment		No. of units
	CNP 283	Water pump, submersible (elec	tric)	l	Four
ь.	Validity of the construction noise perm Date and time of commencement: Days and hours: 0000-2400 hours of being a general holiday	24 November 2016	at	1900 hours 1 1900-2400 ho	urs on any day not
	This part of the permit expires on :	23 May 2017	at	0700 hours	
c.	One photograph, endorsed by the A permit is required to be kept on the co				s construction noise
d.	Other conditions imposed on the use of	of the powered mechanical equipment	:		
EPD76A0	(s)	-1-			

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This part of the permit expires on :



- 4. Prescribed Construction Work
  - a. Type of prescribed construction work which may be carried out inside the site boundary :

Identification code of type of prescribed construction work		Description of type of cribed construction	-	
	Nil			
				_
Validity of the construction noise permit	for the carrying out of the prescribe	d construction work	:	
Date and time of commencement :	24 November 2016	at	1900 hours	
Days and hours: 0000-2400 hours on	general holiday (including Sunday	), 0000-0700 hours	and 1900-2400 hours on any da	у по
being a general holiday.				

c.	Site layout plan(s), endorsed by the Authority, may be attached with the permit to indicate the locations permitted for the carrying ou
	of prescribed construction work described in this permit. The layout plan(s) is(are) required to be kept on the construction site and
	made available for inspection by the Authority.

23 May 2017

a. Other conditions imposed on the carrying out of the prescribed constituently work.
This construction noise permit or a copy thereof must be displayed on the construction site at all vehicular site entrances/exits for pub

	,
information.	

Dated this	09th	day of	November	20	16

Signed : (NG Ping Sum)
for Authority

0700 hours

Delete as necessary

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[第5(a)條]

表格 3 噪音管制條例 (第400章) 第8(9)條

#### 建築噪音許可證 為進行建築工程(撞擊式打樁除外) 而使用機動設備及/或進行訂明建築工程

擊式打	丁楷	工程以外的建築工程及/或	條例》第8條的規定而發出的。現准予使用機動設 2013年11年2月2日 120日11日2日2日11日2日11日2日11日2日11日2日11日2日1	
進行員	重杂	工程,許可證可遭撤銷,而」		
			<i>條 件</i>	
1.	可便	門機動設備及/或進行訂明	建杂工程的建杂地盤。	
	詳組	田地址: 九龍旺角西九龍填海區	5飲州街西與欽明路交界的建築地盤。	
-	Lil. W	A AN CHI / CO SER AN CHI 100 COL NO. TO		Dri I. zri ek
		X 軋團(即可使用機動設備及 則是本建築噪音許可證的一部	進行訂明建築工程的地方範圍)已描劃於夾附的圖 分。	則上,而該
		2盤 <del>部分</del> /全部*位於指定範圍		
3. 1	梅香	b 設 備		
		,以同 在地盤範圍內可使用的各項框	養動 設 備:	
			10 and 100 and	
		各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
		CNP 283	潛水泵(電動)	5年
	h	可使用機動設備的建築噪音	<b>车可總有効</b> 期:	
'		与 使用 版 動 政 開 的 建 聚 录 目 。 生 效 日 期 及 時 間 :	二零一六年十一月二十四日 下午七時	
		日期及時間: 公眾假日(包括	哲星期日)的凌晨零時至晚上十二時,公眾假日以	外的任何一
		日凌晨零時至上午七時及下午	午七時至晚上十二時	
		此部分許可證屆滿日期及時!	問: 二零一七年五月二十三日 上午七時	
		M 2	日期 時間	
•	с.	建築地盤須備有本建築噪音 等照片須經監督認可。	許可證所述每件機動設備的照片各一幀,供監督團	∄時查看; 該
	d.	規限使用機動設備的其他條件	华:	

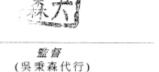
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- 4. 訂明建築工程
  - a. 在地盤範圍內可進行的訂明建築工程:

		訂明建築工程的鐵觯代碼	訂明建築工程的類別的說明
生效日期及時間: 二零一六年十一月二十四日 下午七時日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外的任日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的規 該地盤圖則須存放於建築地盤供監督醫時查看。  d. 规限進行訂明建築工程的其他條件:			無
生效日期及時間: 二零一六年十一月二十四日 下午七時日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外的任日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的與該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:			
生效日期及時間: 二零一六年十一月二十四日 下午七時日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外的任日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的規 該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:			
生效日期及時間: 二零一六年十一月二十四日 下午七時日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外的任日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的規 該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:	h	可進行訂明建築工程的建築制	最高 会 会 許 可 避 有 数 期 :
日期及時間: 公眾假日(包括星期日)的凌晨零時至晚上十二時,公眾假日以外的任日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予地行訂明建築工程的與該地盤圖則須存放於建築地盤供監督閱時查看。  d. 規限進行訂明建築工程的其他條件:	٠.		
日凌晨零時至上午七時及下午七時至晚上十二時。  此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時 日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的與 該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:  本建築噪音許可證或其副本必須展示於建築地盤的所有車輛人口/出口處,給予公眾人			
此部分許可證屆滿日期及時間: 二零一七年五月二十三日 上午七時 日期 時間 c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的與 該地盤圖則須存放於建築地盤供監督隨時查看。 d. 規限進行訂明建築工程的其他條件:			
日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的與 該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:  ———————————————————————————————————		口夜辰冬时王上十七时及下	十七時主成工十二時。
日期 時間  c. 本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的與 該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:  ———————————————————————————————————		此部分許可證屆滿日期及時	間: 二零一七年五月二十三日 上午七時
該地盤圖則須存放於建築地盤供監督隨時查看。  d. 規限進行訂明建築工程的其他條件:  ———————————————————————————————————			
d. 規限進行訂明建築工程的其他條件:  本建築噪音許可證或其副本必須展示於建築地盤的所有車輛入口/出口處,給予公眾人	с.		
	d.		
本建築噪音許可證或其副本必須展示於建築地盤的所有車輛入口/出口處,給予公眾人 閱。			
			展示於建築地盤的所有車輛人口/出口處,給予公眾人士

日期:2016 年 11 月 09 日



\* 制去不適用者

簽署:

Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



### Photograph attached to Construction Noise Permit No. <u>GW-RE1081-16</u> 建築噪音許可證編號<u>GW-RE1081-16</u>的照片



CNP 283 Water pump, submersible (electric) 潛水泵 (電動)



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