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Fax: (852) 3563 7018

Date : 12 November 2018

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 October 2018

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 October 2018 for your record in accordance with Condition 3.4 of EP-454/2013.

Should you have any questions, please do not hesitate to contact the undersigned at (852) 3610 8777 or our Ir. Nelson Tam at (852) 3610 8701. Thank you.

Yours faithfully,

For and on behalf of

Telemax Environmental and Energy Management Limited

Ir Eagle MO

Managing Director

Encl.

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

FEHD - Ms. May NG (by hand)

PTA - Ms. Clara PANG / Mr. Jim HUNG (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

AEC

By Email

12 November 2018

Our Ref: 1330/18-0022

Food and Environmental Hygiene Department Planning & Development Section 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 October 2018 (Issue 2)

Further to the receipt from Environmental Team (ET) of the captioned Monthly EM&A Report on 8th and 12th November 2018 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. Jim HUNG

Email Email

TEEM (ET Leader)

Mr. Nelson Tam

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

Email

cycled Paper

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

Environmental Monitoring and Audit Report

Prepared by: Telemax Environmental and Energy Management Limited

Prepared by:

TELEMAX

Date

Certified by:

Ir. Nelson Tam

ENVIRONMENTAL TEAM LEADER

Date

12 November 2018

Date

12 November 2018

Date

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Issue	Date	Prepared by	Checked by	Approved by	Remark
1	2 nd November 2018	Jackson Tse (Assistant Engineer) / Kiwi Man (Assistant Consultant)	Nelson Tam (Associate) / Susan Chen (Senior Consultant)	Eagle Mo (Managing Director)	
2	12 th November 2018	Jackson Tse (Assistant Engineer) / N Kiwi Man (Assistant Consultant)	Nelson Tam (Associate) Susan Chen (Senior Consultant)	Eagle Mo (Managing Director)	

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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 10th December 2015 to 7th February 2016. The construction works were commenced on 29th 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 thirty-second monthly EM&A report, which detailed the environmental monitoring and audit results recorded during the period from 1st October 2018 to 31st October 2018.

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.

2

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2.0 Project Information

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 m².
- 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 in 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 Yun 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. Jim Hung	2832 3016
Main Contractor	China Road and Bridge Corporation	Mr. Vincent Chung	2283 1688
Environmental Team Leader	Telemax Environmental and Energy Management Ltd.	Ir. Nelson Tam	3610 8701
Independent Environmental Checker	Allied Environmental Consultants Ltd.	Ms. Grace Kwok	2815 7028



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- 2.6 The construction programme is referred to **Appendix A** and the management structure is given in **Appendix B**.
- 2.7 The major works undertaken and/or completed during the reporting month are listed as below:
 - General housekeeping;
 - Drilling;
 - Hammering;
 - Plastering works;
 - Erection of bamboo scaffold, block wall, block wall metal frame and formwork;
 - Painting works;
 - Installation of block wall;
 - Backfilling works;
 - Steel fixing;
 - Dismantling of formworks and falsework;
 - Concrete surfacing; and
 - Screeding works.

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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 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	GW-RE0443-18	1-Jul-18	31-Oct-18	CRBC	Use of prescribed powered mechanical equipment during nighttime. (0000 to 2400 hours on general holidays, including Sundays, 0000 to 0700 hours and 1900-2400 hours on any day not being a general holiday.). The permit was approved on 15 June 2018.	

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 August 2018 submitted on 15 th October 2018	
4.2 & 4.3	Dedicated web site set up on 11th April 2016	

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.

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Table 4 Interrelationship between Construction Activities and Mitigation Measures

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 (L_{eq}). The $L_{eq(30min)}$ 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_{10} and L_{90} , 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



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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.

- Regular site inspections should be carried out and led by the Architect's Representative 4.4 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;
 - 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



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investigation work, as specified in the Event and Action Plans for the EM&A programme.

Action and Limit Level

Accordingly to the EM&A requirement only noise impact of the construction stage 4.7 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 Noise 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

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:
 - General housekeeping;
 - Drilling;
 - Hammering;
 - Plastering works;
 - Erection of bamboo scaffold, block wall, block wall metal frame and formwork;
 - Painting works;
 - Installation of block wall;
 - Backfilling works;
 - Steel fixing;
 - Dismantling of formworks and falsework;
 - Concrete surfacing; and
 - Screening works.
- 5.2 The relevant parties have implemented mitigation measures which include, but not limited to the following:
 - Tarpaulin cover was provided to minimize potential for damage or contamination of construction materials;
 - Watering and impervious sheeting was provided to dusty materials;
 - Water spraying was provided to haul road and excavation works;
 - Well-maintained and quiet plants were used;
 - Proper waste storage and sorting was applied;

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- Trip record was maintained properly;
- Noise barrier was implemented during construction activities; and
- Cement sealing, cover walkway pavement and pump addition were implemented.
- 5.3 A total of 4 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	Outcome
	Observations / Reminders	Contractor	
3 rd October 2018	Nil.	Nil.	Nil.
	Reminder 1: Please be reminded to remove stagnant water on site.	Stagnant water shall be cleared regularly, especially after raining.	Stagnant water was removed as observed on 18th October 2018.
10 th October 2018	Reminder 2: Please be reminded to enhance housekeeping.	The contractor shall strengthen housekeeping and keep the site clean and tidy.	Regular housekeeping was scheduled and arranged to improve the site condition. General housekeeping was conducted as observed on 18th October 2018
18 th October 2018	Nil.	Nil.	Nil.
24 th October 2018	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 were 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 $L_{eq(30min)}$ were carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week when construction are underway. The L_{eq} , L_{10} and L_{90} were recorded at the specified intervals. The meter was 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 were 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 was checked with a portable anemometer capable of measuring the wind speed in m/s. Noise measurements were made when construction activities were underway.

Calibration and Maintenance

- 6.4 The calibration of the sound level meter and their respective calibrators were carried out according to the manufacturer's requirements. The sound level meter and the calibrator were 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; and
 - 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 was 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	090078
3	Calibrator	Pulsar 100B	039507

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 Yun House	Residential Premises	

NSR denotes 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 Yun House (NSR7) on 2nd, 8th, 13th, 19th, 25th and 31st October 2018.
- Noise monitoring results in terms of L_{eq(30min)}, L_{10(30min)} and L_{90(30min)} measured at Sir Ellis Kadoorie Secondary School (NSR1) and Fu Cheong Estate Fu Yun 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 recorded the measured noise levels according to façade measurements. L₁₀ and L₉₀ represent sound levels that are exceeded 10% and 90% of the time respectively. Normally, L₁₀ measurements can be considered as the average peak levels, whilst L₉₀ levels can be considered as the average background noise levels. No exceedance was found during the reporting period at both NSR1 & NSR7 according to the monitoring results.

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Table 10 Noise Monitoring Results at NSR1

NSR1	Sir Ellis Kadoorie Secondary School						
Date	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		L _{eq(30 min)}	Limit Level			
2/10/2018	07:00-19:00	Sunny	<5	66.6	60.4	64.6	70.0
8/10/2018	07:00-19:00	Sunny	Sunny <5		60.5	64.2	70.0
13/10/2018	07:00-19:00	Sunny	<5	66.1	60.2	64.1	70.0
19/10/2018	07:00-19:00	Fine	<5	66.2	60.4	64.2	70.0
25/10/2018	07:00-19:00	Fine	<5	65.8	59.7	63.9	65.0
31/10/2018	07:00-19:00	Fine	<5	65.7	59.4	63.7	65.0
Average Leq(30 min)				64.2			70.0
	Average Leq(30	min) for Exa	63.7			65.0	

Remarks:

Unit in dB(A)

Non-Exam – Session that there was non-examination session at NSR1; Limit level = 70.0 dB(A)

Exam – Session that there was examination session at NSR1; Limit level = 65.0 dB(A)

Date with both examination session and noise monitoring in the reporting period:

 25^{h} October 2018 and 31^{st} October 2018

Compliance achieved in the reporting period

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Table 11 Noise Monitoring Results at NSR7

NSR7	Fu Cheong Estate Fu Yun House							
Date	Monitoring Time Period	Weather Condition	Wind Speed (m/s)	L _{10(30 min)}	L90(30 min)	L _{eq(30 min)}	Limit Level	
2/10/2018	07:00-19:00	Sunny	<5	73.6	66.3	71.7	75.0	
8/10/2018	07:00-19:00	Sunny	<5	73.8	65.9	71.7	75.0	
13/10/2018	07:00-19:00	Sunny	<5	73.8	66.3	71.7	75.0	
19/10/2018	07:00-19:00	Fine	<5	73.2	65.5	71.0	75.0	
25/10/2018	07:00-19:00	Fine	<5	73.0	65.8	70.9	75.0	
31/10/2018	07:00-19:00	Fine	<5	73.1	65.9	71.1	75.0	
	Average L	eq(30 min)		71.3			75.0	

Remarks:

Unit in dB(A)

Limit Level for NSR7 = 75.0 dB(A)

Compliance achieved in the reporting period

- 7.3 For examination session at Sir Ellis Kadoorie Secondary School (NSR1), the minimum and maximum noise levels measured in a single 30-min period were 62.4 dB(A) Leq(30min) and 65.0 dB(A) Leq(30min) respectively with an average of 63.7 dB(A) Leg(30min). For non-examination session at NSR1, the minimum and maximum noise level measured in a single 30-min period were 62.1 dB(A) Leq(30min) and 66.2 dB(A) Leq(30min) respectively with an average of 64.2 dB(A) Leq(30min). Therefore, the results were not considered as exceedance. (Leg(30min) not greater than 65.0 dB(A) and 70.0 dB(A) for examination and non-examination session respectively).
- 7.4 The minimum and maximum noise levels measured in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) were 68.2 dB(A) L_{eq(30min)} and 74.1 dB(A) L_{eq(30min)} respectively with an average of 71.3 dB(A) L_{eq(30min)}. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ not greater than 75.0 dB(A)).



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7.5 Drilling and hammering were undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.

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 notification of summons or successful prosecution was 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 notification of summon or successful prosecution was received, the associated review was not required.

Follow-up Actions Taken

8.6 As no notification of summons or successful prosecution was received, the associated follow-up action was 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:
 - R.C. Frame works;
 - Plumbing installation works;
 - Drainage installation works;
 - Electrical installation works;
 - MVAC installation works;
 - Fire services installation works;
 - Site works of aluminum window / louvre and curtain wall;
 - Grasscrete works;
 - Internal finishing works;
 - Mechanical handling and lifting installation works;
 - Lift services works;
 - Roofing works;
 - Sanitary fitting installation works;
 - External and landscaping works;
 - Soft Landscaping; and
 - Glazing 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;



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- 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 4th March 2016. The tentative monitoring schedule is appended in *Appendix G*.

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, 664.73 tons excavated C&D materials were disposed at public fills during the reporting period and 242.15 tons of general refuse was disposed at NENT landfill. No recyclable (e.g. metals, paper/cardboard packaging or plastics) was 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; and
- Larger chemical waste storage tanks shall be provided.

Water Quality Impact

- All drainage facilities on site shall be properly maintained; and
- 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; and
- 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; and
- Noise barrier should be properly implemented during construction work.

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Landscape and Visual Impact

- Retained tree should be properly fenced off and the working area; and
- Mulching shall be provided to the retained tree.
- 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-cum-vehicle 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 Yun House (NSR7) on 2nd, 8th, 13th, 19th, 25th and 31st October 2018.
- 11.5 For examination session at Sir Ellis Kadoorie Secondary School (NSR1), the minimum and maximum noise levels measured in a single 30-min period were 62.4 dB(A) Leq(30min) and 65.0 dB(A) Leq(30min) respectively with an average of 63.7 dB(A) Leq(30min). For non-examination session at NSR1, the minimum and maximum noise level measured in a single 30-min period were 62.1 dB(A) Leq(30min) and 66.2 dB(A) Leq(30min) respectively with an average of 64.2 dB(A) Leq(30min). Therefore, the results were not considered as exceedance. (Leq(30min) not greater than 65.0 dB(A) and 70.0 dB(A) for examination and non-examination session respectively).
- The minimum and maximum noise levels measured in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) were 68.2 dB(A) $L_{eq(30min)}$ and 74.1 dB(A) $L_{eq(30min)}$ respectively with an average of 71.3 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ not greater than 75.0 dB(A)).
- 11.7 Drilling and hammering were 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 notification of summons or successful prosecution was received.
- 11.9 Weekly construction phase site inspections and landscape and visual impact

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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, 664.73 tons excavated C&D materials were disposed at public fills and 242.15 tons of general refuse was disposed at NENT landfill. No recyclable (e.g. metals, paper/cardboard packaging or plastics) was collected by the recycling contractor.
- 11.11 Construction activities to be undertaken in the next three months include R.C. Frame works, plumbing installation works, drainage installation works, electrical installation works, MVAC installation works, fire services installation works, site works of aluminum window / louvre and curtain wall, grasscrete works, internal finishing works, mechanical handling lifting installation works, lift services works, roofing works, sanitary fitting installation works and external and landscaping 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.



Appendix A Master Programme



China Road and Bridge Corporation **Master Construction Programme (Rev.14)** Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) January 2016 May 2016 September 2016 January 2017 May 2017 September 2017 January 2018 May 2018 1 February 2 1 March 11 May 1 July 21 August 11 October 1 December 21 June 11 August 1 October 21 November 11 January 1 March 11 June 1/2 2/2/2 14/3 4/4 2/4 16/5 6/6 27/6 18/7 8/8 19/9 10/10 31/11 12/2 2/1 23/1 13/4 8/5 29/5 19/6 10/7 31/7 21/8 11/9 2/10 23/10 13/11 4/12 25/12 19/3 9/4 30/4 21/5 11/6 27/2 1017 days Wed 9/12/15 Fri 28/9/18 Contract period Wed 9/12/15 2 9/12 Wed 9/12/15 Project commencem 1 day 28/9 1 28/9 Project completion 1 day Fri 28/9/18 Fri 28/9/18 Milestone Dates 1017 days Wed 9/12/15 Fri 28/9/18 Wed 9/12/15 2 9/12 Project commencem Wed 9/12/15 Submission / Application of Form WWO 046 (Part I & II) 1 day Wed 22/3/17 Wed 22/3/17 Submission of Form WWO46 Part IV Mon 6/8/18 1 day Mon 6/8/18 Last Manhole Connection Completion Mon 30/4/18 Mon 30/4/18 1 day Water Certificate Obtained (Plumbing Installation) 1 day Fri 7/9/18 Fri 7/9/18 Handover of Transformer Room & Switch Room to CLP 1 day Tue 2/1/18 Tue 2/1/18 31/8 | 28/8 | 30/8 | 11/9 Power Energisation 1 day Fri 31/8/18 Fri 31/8/18 Lift certificate Obtained (Fireman's Lift) Tue 28/8/18 1 day Tue 28/8/18 Form 501 Submission 1 day Thu 30/8/18 Thu 30/8/18 FSD inspection 1 day Tue 11/9/18 Tue 11/9/18 F.S. Certificate Obtained 1 day Fri 28/9/18 Fri 28/9/18 28/9 28/9 1 day Site Handover Fri 28/9/18 Fri 28/9/18 Critical Path Summary 1017 days Wed 9/12/15 Fri 28/9/18 9/12 Wed 9/12/15 Project commencemen 0 days Wed 9/12/15 31/3 Hoarding installation 113 days Thu 10/12/15 Thu 31/3/16 12 H-pile (305x305x180) - total 399nos 127 days Fri 1/4/16 Fri 5/8/16 6/8 19/8 As-built record submission and selection of loading test Fri 19/8/16 14 days Sat 6/8/16 Loading test (70% completed) Sat 20/8/16 Mon 26/9/16 38 days 27/9 Construction of Pile cap with sheetpile (80% Completed) 184 days Tue 27/9/16 Wed 29/3/17 Backfilling works for Pile Cap 45 days Thu 30/3/17 Sat 13/5/17 R.C. Frame of A2 (G.L.1-4/A-F), G/F~UR/F 343 days Sun 14/5/17 Sat 21/4/18 External Wall Plastering Works 49 days Sun 22/4/18 Sat 9/6/18 10/6 Sat 14/7/18 External Wall Tiling Works Sun 10/6/18 35 days 40 days Sun 15/7/18 Thu 23/8/18 External painting 24/8 10/9 Removal of scaffoldings 14 days Fri 24/8/18 Mon 10/9/18 FSD inspection and Issuance of FS Certificate 14 days Tue 11/9/18 Fri 28/9/18 Practical completion 0 days Fri 28/9/18 Fri 28/9/18 Thu 8/12/16 365 days Thu 10/12/15 Preparation works Wed 16/12/15 12 16/12 Mobilization Thu 10/12/15 7 days 27/2 Condition survey and U/G utility survey Thu 10/12/15 Sat 27/2/16 12 80 days Setting up site office (1) Drawing submission and approva 130 days Thu 10/12/15 Sun 17/4/16 12 18/4 Setting up site office (2) Material fabrication and Thu 16/6/16 60 days Mon 18/4/16 construction Thu 10/12/15 Thu 14/7/16 12 Temporary electricity and water 218 days 13/2 Sat 13/2/16 12 Setting out of site area 66 days Thu 10/12/15 Thu 31/3/16 12 Hoarding (1) installation 113 days Thu 10/12/15 Hoarding (2) painting and lighting Fri 1/4/16 Mon 30/5/16 60 days 7/2 Sun 7/2/16¹² Removal of existing trees 60 days Thu 10/12/15 8/12 25/10 Hoarding enhancement work 45 days Tue 25/10/16 Thu 8/12/16 Piling work 446 days Wed 9/12/15 Sun 26/2/17 Design Submission 78 days Wed 9/12/15 Wed 24/2/16 Preparation and submit piling design Wed 9/12/15 Mon 4/1/16 L2 27 days 5/1 Review of piling design by SCU 30 days Tue 5/1/16 Wed 3/2/16 Coordination with MTRC and Method statement for Thu 4/2/16 Wed 24/2/16 21 days MTRC Approval 45 days Mon 14/12/15 Wed 27/1/16 Noise permit application Mon 28/12/15 Mon 16/5/16 Material testing 141 days H-Pile Delivery (Batch 1 to 4) Mon 11/1/16 15 days Mon 28/12/15 12/4 12/4 H-Pile Delivery (Batch 5) 1 day Tue 12/4/16 Tue 12/4/16 13/4 13/4 H-Pile Delivery (Batch 6) 1 day Wed 13/4/16 Wed 13/4/16 21/2 21/2 Delivery of Splicing Steel Plate (1st Batch) Sun 21/2/16 Sun 21/2/16 1 day Delivery of Splicing Steel Plate (2nd Batch) Mon 9/5/16 Mon 9/5/16 9/5 1 9/5 1 day Material Testing for H-pile (Batch 1) Tue 10/5/16 Mon 16/5/16 10/5 5 16/5 7 days Material Testing for H-pile (Batch 2, 3 & 4 & Batch 1 15 days Thu 28/1/16 Thu 11/2/16 16mmthk, steel plate) Material Testing for H-pile (Batch 5, 6 & Batch 2, 13 days Fri 22/4/16 Wed 4/5/16 16mm thk steel plate) Completion of monitoring check points, noise barrier and 30 days Mon 8/2/16 Tue 8/3/16 baseline noise monitoring Installation of trial pile (2 hammers) Thu 10/3/16 Tue 21/6/16 104 days 19/5 Thu 10/3/16 Thu 19/5/16 Trial pile driving (21 nos.) 71 days PDA test 1 day Fri 20/5/16 Fri 20/5/16 31/5 31/5 Final set table preparation 1 day Tue 31/5/16 Tue 31/5/16 1/6 21/6 Approval of Hiley Formula Data and Final Set Table 21 days Wed 1/6/16 Tue 21/6/16 Installation of working pile 332 days Fri 1/4/16 Sun 26/2/17 Fri 1/4/16 Fri 5/8/16 127 days H-pile (305x305x180) - total 399nos 127 days Fri 1/4/16 Fri 5/8/16 H-pile (305x305x223) - total 87nos 48 days Sat 21/5/16 Thu 7/7/16 22/6 Final set Wed 22/6/16 Sat 30/7/16 39 days PDA test Wed 22/6/16 Sat 20/8/16 60 days 6/8 19/8 As-built record submission and selection of loading tes Sat 6/8/16 Fri 19/8/16 14 days Loading test (including set up)* 38 days Sat 20/8/16 Mon 26/9/16

Remedial work for FA7 (Revised Design)

Re-drive / PDA test and CAPWAP analysis for

Re-drive / PDA test and CAPWAP analysis for

FA7-P1, FA7-P2, FA7-P3 (2nd time)

Loading Test for FD3-P11

Loading Test for FC7-P4

FA7-P1, FA7-P2, FA7-P3

Proof Drilling Work for FA7

Remedial work for FA7

25/10 - 28/10

2/11 4/1

17/11 23/11

24/11

6/12 🔯 9/12

17/1

4 days

4 days

4 days

3 days

7 days

41 days

Tue 6/12/16

Tue 13/12/16

Tue 25/10/16

Wed 2/11/16

Thu 17/11/16

Thu 24/11/16

Tue 17/1/17

Fri 9/12/16

Fri 16/12/16

Fri 28/10/16

Fri 4/11/16

Wed 23/11/16

Mon 16/1/17

Sun 26/2/17

China Road and Bridge Corporation **Master Construction Programme (Rev.14)** Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) | January 2016 | May 2016 | September 2016 | January 2017 | May 2017 | September 2017 | January 2018 | May 2018 | | 11 December | 1 February | 21 March | 11 May | 1 July | 21 August | 11 October | 1 December | 21 January | 11 March | 1 May | 21 June | 11 August | 1 October | 21 November | 11 January | 1 March | 21 April | 11 June | 1 Tue 26/4/16 Fri 24/8/18 Tower crane 851 days 27/5 Tue 26/4/16 Fri 27/5/16 Submission of tower crane proposal 32 days 81 Comments on tower crane proposal 1 day Tue 9/8/16 Tue 9/8/16 Setting up of tower crane 87 days Mon 14/11/16 Wed 8/2/17 23/12 ELS for TC1, TC2 40 days Mon 14/11/16 Fri 23/12/16 Setting up of tower crane TC1 & TC2 30 days Tue 10/1/17 Wed 8/2/17 15/6 🛛 17/6 Fri 15/6/18 Dismantle of tower crane TC1 3 days Sun 17/6/18 Dismantle of tower crane TC2 Mon 20/8/18 Fri 24/8/18 5 days 87 741 days Thu 10/3/16 Pile caps Tue 20/3/18 18/4 Design of pile cap submission and PTS approval 40 days Thu 10/3/16 Mon 18/4/16 13/5 13/6 Design of pile cap - Review and approval by SCU 32 days Fri 13/5/16 Mon 13/6/16 FLS design submission and approval Wed 6/4/16 Thu 30/6/16 86 days Construction of pile caps (ELS in Two Stage) Tue 27/9/16 Tue 20/3/18 540 days 29/3 Construction of Pile cap with sheetpile(G.L. 1-9/A-K) 184 days Tue 27/9/16 Wed 29/3/17 Construction of Pile cap with sheetpile(G.L. 6-9/A-C) 81 days Sun 29/1/17 Wed 19/4/17 Construction of pile cap with open cut method Sat 4/2/17 Fri 28/7/17 175 days Backfilling works for Pile Cap 356 days Thu 30/3/17 Tue 20/3/18 21/4 A1 (G.L.1-5/F-K) 23 days Thu 30/3/17 22/4 A2 (G.L.1-5/ A-F) Sat 22/4/17 Sat 13/5/17 18/5 A3 (G.L.5-9/ F-K) 90 days Thu 18/5/17 Tue 15/8/17 28/1 A4 (G.L.5-9/ A-F) 52 days Sun 28/1/18 Tue 20/3/18 100 Construction of Pile cap FA7 (including backfill) 34 days Wed 22/2/17 Mon 27/3/17 101 Superstructure 496 days Sat 22/4/17 Thu 30/8/18 102 R.C. Frame 441 days Sat 22/4/17 Fri 6/7/18 103 Backfill works for Pile cap to G/F Beam 199 days Sat 22/4/17 Mon 6/11/17 A1 (G I 1-4/F-K) 29 days Sat 22/4/17 Sat 20/5/17 105 14/5 A2 (G.L.1-4/A-F) Sun 14/5/17 48 days Fri 30/6/17 106 A3 (G.L.4-7/ F-K) 26/5 23/6 29 days Fri 26/5/17 Fri 23/6/17 A5 (G.L.7-9/ F-K) 29 days Sat 1/7/17 Sat 29/7/17 Ramp (G.L.6-9/ E-F 40 days Sun 30/7/17 Thu 7/9/17 8/9 26/9 27/9 A4 (G.L.4-7/ A-F) 19 days Fri 8/9/17 Tue 26/9/17 110 6/11 A6 (G.L.7-9/ A-F) Wed 27/9/17 Mon 6/11/17 41 days 111 G/F Slab (include backfill from G/F Beam to on 414 days Fri 19/5/17 Fri 6/7/18 grade slab) 112 30 days A1 (G.L.1-4/F-K) Fri 19/5/17 Sat 17/6/17 Sat 17/2/18 Fri 6/7/18 17/2 A2 - A6 (G.L.1-9/A-K) 140 days 114 G/F to UG/F 188 days Tue 5/12/17 13/7 115 A1 (G.L.1-3/F-K 43 days Thu 1/6/17 Thu 13/7/17 26/7 22/7 17/8 116 A2 (G.L.1-3/A-F) 26 days Sat 1/7/17 Wed 26/7/17 27 days A3 (G L 4-5/ F-K) Sat 22/7/17 Thu 17/8/17 118 Mon 7/8/17 Fri 1/9/17 A4 (G.L.3-5/ A-F) 26 days 119 71 days Mon 21/8/17 A5 (G.L.8-9/ F-K) Mon 30/10/17 Ramp (G.L.6-9/ E-F) 120 15 days Tue 12/9/17 Tue 26/9/17 7/11 121 A6 (G.L.7-9/ A-F) 29 days Tue 7/11/17 Tue 5/12/17 122 Water Tanks 30 days Sun 24/9/17 Mon 23/10/17 Water Tank (G.L.4-5/F-K) Sun 24/9/17 Mon 23/10/17 30 days 124 G/F & UG/F to 1/F 164 days Thu 20/7/17 Sat 30/12/17 31/8 125 A1 (G.L.1-3/F-K) 43 days Thu 20/7/17 Thu 31/8/17 126 A2 (G.L.1-3/A-F) 47 days Thu 27/7/17 Mon 11/9/17 A3 (G.L.4-7/ F-K 37 days Sun 17/9/17 Mon 23/10/17 128 15/11 Sat 2/9/17 A4 (G.L.3-5/ A-F) 75 days Wed 15/11/17 31/10 129 A5 (G.L.7-9/ F-K) 54 days Tue 31/10/17 Sat 23/12/17 17/10 130 Tue 17/10/17 Ramp (G.L.3-6/ E-F) 21 days Wed 27/9/17 6/12 131 A6 (G.L.7-9/ A-F) 25 days Wed 6/12/17 Sat 30/12/17 1/F to 2/F 143 days Mon 4/9/17 Wed 24/1/18 4/9 9/10 133 A1 (G.L.1-4/F-K) Mon 4/9/17 Mon 9/10/17 36 days 134 A2 (G.L.1-4/A-F) 38 days Wed 27/9/17 Fri 3/11/17 24/10 29/11 18/10 29/11 135 A3 (G.L.4-7/ F-K 54 days Tue 24/10/17 Sat 16/12/17 Ramp (G.L.3-6/ E-F 43 days Wed 18/10/17 Wed 29/11/17 16/11 2/12 A4 (G.L.4-7/ A-F) 17 days Thu 16/11/17 Sat 2/12/17 138 24/12 A5 (G.I. 7-9/ F-K) 25 days Sun 24/12/17 Wed 17/1/18 31/12 24/1 139 A6 (G.L.7-9/ A-F) Sun 31/12/17 Wed 24/1/18 25 days 140 2/F to 3/F 127 days Tue 10/10/17 Tue 13/2/18 A1 (G.L.1-4/F-K) 63 days Tue 10/10/17 Mon 11/12/17 21/12 4/11 Thu 21/12/17 A2 (G.L.1-4/A-F) 48 days Sat 4/11/17 143 17/12 3/1 3/12 10 A3 (G.L.4-7/ F-K) 18 days Sun 17/12/17 Wed 3/1/18 144 A4 (G.L.4-7/ A-F Wed 10/1/18 10/1 39 days Sun 3/12/17 145 18/1 6/2 A5 (G.L.7-9/ F-K) 20 days Thu 18/1/18 Tue 6/2/18 25/1 13/2 A6 (G.L.7-9/ A-F) 20 days Thu 25/1/18 Tue 13/2/18 3/F to 4/F 96 days Tue 12/12/17 Sat 17/3/18 12/12 148 A1 (G.L.1-4/F-K) 47 days Tue 12/12/17 Sat 27/1/18 149 A2 (G.L.1-4/A-F) 49 days Fri 22/12/17 Thu 8/2/18 150 A5 (G.L.7-9/ F-K) 31 days Wed 7/2/18 Fri 9/3/18 151 A6 (G.L.7-9/ A-F) 32 days Wed 14/2/18 Sat 17/3/18 4/F to R/F 70 days Sun 28/1/18 Sat 7/4/18 A1 (G.L.1-4/F-K) 47 days Thu 15/3/18 Sun 28/1/18 23/3 10/3 18/3 24/2 154 A2 (G.L.1-4/A-F) 43 days Fri 9/2/18 Fri 23/3/18 155 A5 (G.L.7-9/ F-K) Sat 10/3/18 Thu 29/3/18 20 days 156 A6 (G.L.7-9/ A-F) 21 days Sun 18/3/18 Sat 7/4/18 R/F to UR/F 29 days Sat 24/3/18 Sat 21/4/18 158 Late cast portions (Temp openings for Tower Crane, Thu 30/8/18 60 days Mon 2/7/18 Material Hoist, Water Tank, etc) 159 20/10 Material and Shopdrawing submissions for mock up 180 days Fri 20/10/17 Tue 17/4/18 Sample of finished work

180 days

Sat 17/2/18

Progress

Wed 15/8/18

China Road and Bridge Corporation					Master Construction Programme (Rev.14)	Date: 1/8/201
			Reprovi	isioning of	FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)	
ID Task Name	Duration	Start	Finish	11 December	January 2016 May 2016 September 2016 January 2017 May 2017 September 2017 January 2018 May 2018 1 February 21 March 11 May 1 July 21 August 11 October 1 December 21 January 11 March 1 May 21 June 11 August 1 October 21 November 11 January 1 March 21 April /2 22/2 14/3 4/4 25/4 16/5 6/6 27/6 18/7 8/8 29/8 19/9 10/10 3/11 13/2 2/2 15/3 17/4 8/5 29/5 19/6 10/7 31/7 21/8 11/9 2/10 23/10 13/11 4/12 25/12 15/1 5/2 26/2 19/3 9/4 30/4 21/5 11/6 10/7 31/7 21/8 11/9 2/10 23/10 13/11 4/12 25/12 15/1 5/2 26/2 19/3 9/4 30/4 21/5 11/6 10/7 31/7 21/8 11/9 2/10 23/10	ay 2018 11 June 1 August 21
61 Lavatory	128 days	Tue 3/4/18	Wed 8/8/18	30/11 21/12 11/1 1		2// 23// 13/8 3/9 24
Confirmation of Setting Out Flooring screeding	7 days 7 days	Tue 3/4/18 Tue 10/4/18	Mon 9/4/18 Mon 16/4/18		3/4 3 5/4 10/4 5 5/4	
Wall and Floor Tiles	10 days	Tue 17/4/18	Thu 26/4/18		17/4 26/4	
BS Installation	21 days	Fri 27/4/18	Thu 17/5/18	i i	27/4	
66 Ceiling Installation 67 Install Sanitary Fitting	32 days 3 days	Fri 18/5/18 Tue 19/6/18	Mon 18/6/18 Thu 21/6/18		18/5 19/6	21/6
General Cleaning and Inspection of Mock Up	7 days	Thu 2/8/18	Wed 8/8/18			2/8 8/8
69 Locker 70 Confirmation of Shop Drawing and Colour selection	173 days	Sat 17/2/18	Wed 8/8/18			
70 Confirmation of Shop Drawing and Colour selection 71 Fabrication	30 days 34 days	Sat 17/2/18 Mon 19/3/18	Sun 18/3/18 Sat 21/4/18			
72 Installation	5 days	Sun 22/4/18	Thu 26/4/18			
General Cleaning and Inspection of Mock Up Changing & Shower Room	7 days	Thu 2/8/18	Wed 8/8/18	i i		2/8 🚾 8/8
4 Changing & Shower Room 5 Confirmation of Setting Out	158 days 7 days	Sun 4/3/18 Sun 4/3/18	Wed 8/8/18 Sat 10/3/18	i i	4/3 55,10/3	
6 Flooring screeding	7 days	Sun 11/3/18	Sat 17/3/18			
7 Wall and Floor Tiles 8 BS Installation	10 days	Sun 18/3/18	Tue 27/3/18			
8 BS Installation 9 Ceiling Installation	21 days 14 days	Wed 28/3/18 Wed 18/4/18	Tue 17/4/18 Tue 1/5/18		18/4 31/5	
0 Install Sanitary Fitting	4 days	Thu 3/5/18	Sun 6/5/18	1 I		200 200
General Cleaning and Inspection of Mock Up	7 days	Thu 2/8/18	Wed 8/8/18			2/8 8/8
Corridor Confirmation of Setting Out	87 days 7 days	Tue 3/4/18 Tue 3/4/18	Thu 28/6/18 Mon 9/4/18		B/4 100 59/4 100 100 100 100 100 100 100 100 100 10	
Flooring screeding	7 days	Tue 10/4/18	Mon 16/4/18			
5 Wall and Floor Tiles 6 BS Installation	10 days 10 days	Tue 17/4/18 Fri 27/4/18	Thu 26/4/18 Sun 6/5/18			
7 Ceiling Installation	21 days	Mon 7/5/18	Sun 27/5/18			
General Cleaning and Inspection of Mock Up	7 days	Fri 22/6/18	Thu 28/6/18			3 28/6
9 G/F Entrance lobby 0 Confirmation of Setting Out	90 days	Fri 18/5/18	Wed 15/8/18 Thu 24/5/18	i i		
Plastering to wall	7 days 10 days	Fri 18/5/18 Fri 25/5/18	Sun 3/6/18			
Erection of bamboo scaffold	4 days	Mon 4/6/18	Thu 7/6/18			
BS Installation Lift Door Installation	24 days	Fri 8/6/18	Sun 1/7/18			29/7
Ceiling Installation	28 days 9 days	Mon 2/7/18 Mon 30/7/18	Sun 29/7/18 Tue 7/8/18			30/7 7/8
Wall and Floor Tiles	7 days	Wed 8/8/18	Tue 14/8/18			8/8 14/8
General Cleaning and Approval of Mock Up Grasscrete (G/F External parking area)	1 day 15 day s	Wed 15/8/18 Tue 28/8/18	Wed 15/8/18 Mon 17/9/18	i i		1.5/8 15/8
9 Lay sub-base and sand	5 days	Tue 28/8/18	Mon 3/9/18			28/8 3/9
O Lay grasscrete block	6 days	Tue 4/9/18	Tue 11/9/18			4/9 11/9
D1 Soil and seed D2 Aluminium Features	4 days 80 days	Wed 12/9/18 Thu 28/6/18	Mon 17/9/18 Fri 21/9/18			12/9 💹 11/
Parameter Signature Signat	65 days	Thu 28/6/18	Fri 31/8/18			
4 Setting out works	7 days	Thu 28/6/18	Wed 4/7/18			17/7 6/8
Installation of GMS frame Fixing of Aluminium Features	21 days 25 days	Tue 17/7/18 Tue 7/8/18	Mon 6/8/18 Fri 31/8/18	i i		7/8 31/8
7 Green wall feature	16 days	Fri 31/8/18	Fri 21/9/18			31/8
Installation of wire rope	16 days	Fri 31/8/18	Fri 21/9/18			31/8
9 Parapet wall feature 0 Setting out works	42 days 7 days	Mon 23/7/18 Mon 23/7/18	Tue 4/9/18 Sun 29/7/18			23/7 29/7
.1 Installation of GMS frame	14 days	Mon 30/7/18	Sun 12/8/18			30/7
Fixing of Aluminium Features	21 days	Mon 13/8/18	Tue 4/9/18			13/8
Major Material Submission and Approval (details refer to submission schedule)	502 days	Thu 23/3/17	Tue 7/8/18	i i		
Solid concrete block	0 days	Mon 16/10/17	Mon 16/10/17		16/10	
5 Liquid membrane waterproofing 6 Cementitious waterproofing coating	0 days	Thu 11/5/17	Thu 11/5/17		11/5	
6 Cementitious waterproofing coating 7 Floor Tiles	0 days 0 days	Mon 3/7/17 Fri 20/10/17	Mon 3/7/17 Fri 20/10/17			
8 Wall Tiles	0 days	Wed 14/6/17	Wed 14/6/17		+ 14/6 +	
9 Plastic laminate panel (wood grain pattern) 0 Acquistic timber wall panel system	0 days	Wed 17/5/17	Wed 17/5/17		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Acoustic timber wall panel system Folding partitions	0 days 0 days	Fri 1/6/18 Mon 9/4/18	Fri 1/6/18 Mon 9/4/18	i i		
2 Ironmongeries	0 days	Wed 7/6/17	Wed 7/6/17		· · · · · · · · · · · · · · · · · · ·	
Toilet cubicle partitions Ceiling System	0 days	Thu 13/7/17	Thu 13/7/17			/6
4 Ceiling System 5 Locker system	0 days 0 days	Thu 14/6/18 Thu 13/7/17	Thu 14/6/18 Thu 13/7/17		13/7	
6 External Aluminium features	30 days	Mon 9/7/18	Tue 7/8/18			9/7 7/8
7 Vinyl floor tile 8 Carnet tile	0 days	Thu 23/3/17	Thu 23/3/17		◆ 23/3	
8 Carpet tile 9 External and internal paint	0 days 0 days	Tue 16/1/18 Tue 16/1/18	Tue 16/1/18 Tue 16/1/18	i i		
O Shop drawing Submission and Approval (details refer to	215 days	Mon 5/2/18	Tue 11/9/18			
submission schedule) Glazing doors	60 days	Tue 15/5/18	Fri 13/7/18			13/7
Metal Door and access panels	60 days	Tue 15/5/18	Fri 13/7/18	1 I	15/5	
Aluminium Features	28 days	Mon 16/7/18	Sun 12/8/18			16/7
Suspensed Ceiling and Fire Resisting Enclosure System Fall Arrest System	60 days	Mon 11/6/18	Thu 9/8/18		11/6	9/8
Fall Arrest System Acoustic Operable Wall System	0 days 14 days	Mon 5/2/18 Mon 23/7/18	Mon 5/2/18 Sun 5/8/18			23/7 5/8
7 Timber Door	60 days	Mon 11/6/18	Thu 9/8/18	1 1		
8 Timber Cabinet	60 days	Mon 11/6/18	Thu 9/8/18	1 I	111/6	9/8
Roller Shutters and Fire Shutters Metal railing system	60 days 60 days	Mon 4/6/18 Mon 19/3/18	Thu 2/8/18 Thu 17/5/18		19/3	4/0
Waterproofing System	60 days	Mon 19/3/18	Thu 17/5/18		17/5	
Toilet and Shower Cubicle Partition Systems	60 days	Thu 3/5/18	Sun 1/7/18			1/7
Changing Room Lockers System	60 days	Thu 3/5/18	Sun 1/7/18	i i		1/7

China Road and Bridge Corporation **Master Construction Programme (Rev.14)** Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) January 2016 May 2016 September 2016 January 2017 May 2017 September 2017 January 2018 May 2018 11 December 1 February 21 March 11 May 21 August 11 October 1 December 21 January 11 March 1 May 21 June 11 August 1 October 21 November 11 January 1 March 21 April 1 June 1 August 2 June 1 June 2 June 1 June 2 June 3 J 244 Mon 3/9/18 Tue 11/9/18 Signage 7 days 245 246 Internal Finishing Works 279 days Thu 7/12/17 Mon 17/9/18 **Block Wall Erection** 198 days Thu 7/12/17 Fri 22/6/18 18/1 16/2 60 days Thu 7/12/17 Sun 4/2/18 30 days Thu 18/1/18 Fri 16/2/18 30 days Sat 17/2/18 Sun 18/3/18 11/3 9/4 250 Sun 11/3/18 Mon 9/4/18 30 days 251 40 days Tue 3/4/18 Sat 12/5/18 252 40 days Thu 3/5/18 Mon 11/6/18 253 R/F 21 days Sat 2/6/18 Fri 22/6/18 254 Window and Louve 40 days Mon 16/7/18 Fri 24/8/18 255 Mon 9/4/18 120 days Mon 6/8/18 Internal Waterproofing works 256 257 Plastering, Tiling & Laying Floor Screed Mon 11/12/17 Mon 27/8/18 260 days Carpentry & Joinery/ Ironmongery and Door Installation 45 days Mon 16/7/18 Wed 29/8/18 258 Metal Works (Roller Shutter, railing) 45 days Mon 16/7/18 Wed 29/8/18 False Ceiling 49 days Mon 16/7/18 Tue 4/9/18 6/8 260 261 262 263 Flooring Finishes 37 days Mon 6/8/18 Mon 17/9/18 96 days Sun 20/5/18 Thu 23/8/18 Internal painting (Final Coat) 96 days Sun 20/5/18 Thu 23/8/18 28 days Sun 20/5/18 Sat 16/6/18 3/6 30/6 16/6 13/7 UG/I 28 days Sun 3/6/18 Sat 30/6/18 265 28 days Sat 16/6/18 Fri 13/7/18 266 267 28 days Fri 29/6/18 Thu 26/7/18 28 days Thu 12/7/18 Wed 8/8/18 268 25 days Wed 25/7/18 Sat 18/8/18 20 days Sat 4/8/18 Thu 23/8/18 270 External Wall Preparation Works for tiling, painting and 94 days Sun 22/4/18 Tue 24/7/18 271 External Wall Plastering Works 49 days Sun 22/4/18 Sat 9/6/18 External Wall Tiling Works 35 days Sun 10/6/18 Sat 14/7/18 15/7 External painting 40 days Sun 15/7/18 Thu 23/8/18 274 275 Roofing works 69 days Sat 2/6/18 Thu 9/8/18 16/7 Waterproofing Application 45 days Sat 2/6/18 Mon 16/7/18 276 Waterproofing Testing 22 days Thu 28/6/18 Thu 19/7/18 Roof tiling 21 days Fri 20/7/18 Thu 9/8/18 1.5/8 28/8 1.5/8 28/8 1.21/8 28/8 278 Wed 15/8/18 Tue 28/8/18 Sanitary fittings installation 14 days 279 280 281 G/F ~ 1/F 14 days Wed 15/8/18 Tue 28/8/18 Wed 15/8/18 14 days Tue 28/8/18 R/F ~ UR/F Tue 21/8/18 Tue 28/8/18 Submission of Aluminium window/ Jouvre & Curtain Wa 348 days Sat 30/9/17 Tue 18/9/18 Sat 30/9/17 193 days Tue 10/4/18 Submission Sat 30/9/17 9 1 30/9 284 285 CW1~CW6 Shop Drg. & Calculation (re-submission) 1 day Sat 30/9/17 16/10 Review & Approval by P&T Sun 1/10/17 Mon 16/10/17 19/10 | 19/10 286 Visual Mock-up Drg. (CW3) 1 day Thu 19/10/17 Thu 19/10/17 19/10 19/10 Thu 19/10/17 Thu 19/10/17 Control Mock-up Drg. (CW3) 1 day 288 20/10 18/1: Fri 20/10/17 Sat 18/11/17 Review & Approval by P&T 30 days 289 290 27/10 27/10 Performance Test Drg. (CW1) and Test Proposal 1 day Fri 27/10/17 Fri 27/10/17 28/10 Review & Approval by P&T Sat 28/10/17 Sun 26/11/17 291 292 17/11 17/11 Glass Sample 1 day Fri 17/11/17 Fri 17/11/17 Window Hardware 1 day Fri 24/11/17 Fri 24/11/17 293 294 18/11 2 1/12 Glass & Hardware Review & Approval by P&T Sat 18/11/17 Fri 1/12/17 14 days 19/11 🚃 25/11 PVDF Color Guide 7 days Sun 19/11/17 Sat 25/11/17 295 296 297 Review & Color Selected by P&T 28 days Wed 14/3/18 Tue 10/4/18 Visual Mock-up (Off Site) 61 days Thu 1/2/18 Mon 2/4/18 Erection of prototype 35 days Thu 1/2/18 Wed 7/3/18 298 14/8 14/3 Wed 14/3/18 Wed 14/3/18 1st inspection 1 day 299 300 19/3 14 days Mon 19/3/18 Sun 1/4/18 Rectification work 2/4 2/4 1 day Mon 2/4/18 Mon 2/4/18 301 Control Mock-up(CW3 - on site) 67 days Tue 12/6/18 Fri 17/8/18 Erection of prototype 18 days Tue 12/6/18 Fri 29/6/18 303 2/8 Glazing work for new glass panels 15 days Thu 2/8/18 Thu 16/8/18 17/8 17/ 304 Fri 17/8/18 Fri 17/8/18 Inspection of Mock-up 1 day 305 Performance Test Mock-up (CW1 - HK Laboratory) Mon 12/3/18 Thu 2/8/18 144 days Mon 12/3/18 Wed 25/4/18 307 31/5 31/5 Remove and reinstate one pc. Of glass panel for 1 day Thu 31/5/18 Thu 31/5/18 inspection 308 Mon 4/6/18 4/6 4/6 Pre-testing Official Preformance Test Wed 18/7/18 Thu 2/8/18 310 Permanent Works 141 days Wed 25/4/18 Tue 18/9/18 Extrusion of Aluminium material 14 days Wed 25/4/18 Tue 8/5/18 9/5 📥 15/5 312 Wed 9/5/18 Tue 15/5/18 PVDF coating 7 days 313 Fabrication of GMS bracket/frame 14 days Wed 30/5/18 Tue 12/6/18 314 Production of Window hardware 30 days Sun 17/6/18 Mon 16/7/18 **Fabrication of Aluminium Frames** 60 days Fri 18/5/18 Mon 16/7/18 316 Glass Production Sat 30/6/18 Sun 29/7/18 30 days 317 Inspection of Heat soak test (1st batch of glass) Tue 7/8/18 Wed 8/8/18 2 days 318 Inspection of Heat soak test (2nd batch of glass) 2 days Wed 15/8/18 Thu 16/8/18 319 Thu 3/5/18 Wed 6/6/18 320 Delivery & erection of steel bracket 21 days Fri 15/6/18 Thu 5/7/18

Delivery, storage and hosting of aluminium frame

Erection of Aluminium Frames for Curtain Wall

Delivery & Hositing of Glass panels

Glazing works

Field watertighness test

326 External and Landscaping works

322

323

324

13/8 28/8

30 days

19 days

16 days

14 days

6 days

86 days

Tue 26/6/18

Wed 25/7/18

Mon 13/8/18

Fri 24/8/18

Tue 11/9/18

Mon 25/6/18

Progress

Wed 25/7/18

Sun 12/8/18

Tue 28/8/18

Mon 10/9/18

Tue 18/9/18

Wed 26/9/18

China Road and Bridge Corporation **Master Construction Programme (Rev.14)** Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) | January 2016 | May 2016 | September 2016 | January 2017 | May 2017 | September 2017 | January 2018 | | 11 December | 1 February | 21 March | 11 May | 1 July | 21 August | 11 October | 1 December | 21 January | 11 March | 1 May | 21 June | 11 August | 1 October | 21 November | 11 January | 1 March | 21 April | 11 June | | 30/11 | 21/12 | 11/1 | 1/2 | 22/2 | 14/3 | 4/4 | 25/4 | 16/5 | 6/6 | 27/6 | 18/7 | 8/8 | 29/8 | 19/9 | 10/10 | 31/10 | 21/11 | 12/12 | 21/1 | 23/1 | 13/2 | 6/3 | 27/3 | 17/4 | 8/5 | 29/5 | 19/6 | 10/7 | 31/7 | 21/8 | 11/9 | 2/10 | 23/10 | 13/11 | 4/12 | 25/12 | 15/1 | 5/2 | 26/2 | 19/3 | 9/4 | 30/4 | 21/5 | 11/6 | 27/7 | 23/7 | | 30/11 | 21/12 | 11/1 | 1/2 | 22/1 | 23/1 | 13/1 | 4/12 | 25/12 | 13/1 | 4/12 | 25/12 | 15/1 | 5/2 | 26/2 | 19/3 | 9/4 | 30/4 | 21/5 | 11/6 | 27/7 | 23/7 | | 30/11 | 21/12 | 11/1 | 1/2 | 22/1 | 23/1 | 13/12 | 4/4 | 25/14 | 13/14 | 4/12 | 25/12 | 15/1 | 5/2 | 26/2 | 19/3 | 9/4 | 30/4 | 21/5 | 11/6 | 27/7 | 23/7 | | 30/11 | 21/12 | 11/1 | 1/2 | 23/1 | 23/1 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 23/14 | 327 Wed 29/8/18 Mon 17/9/18 Roads and pavings 14 days 328 Removal of Scaffoldings 14 days Fri 24/8/18 Mon 10/9/18 329 Hard Landscaping 21 days Mon 27/8/18 Mon 24/9/18 330 Mon 27/8/18 Mon 24/9/18 21 days 331 Movable plante 21 days Mon 27/8/18 Mon 24/9/18 Trellises 21 days Mon 27/8/18 Mon 24/9/18 333 Mon 27/8/18 Benches 21 days Mon 24/9/18 334 Mon 25/6/18 Mon 24/9/18 Soft Landscaping 84 days 335 Soft Landscaping - Material Submission/ Preparation Mon 25/6/18 336 Soft Landscaping - Filing of soil 14 days Mon 13/8/18 Sun 26/8/18 27/8 4/9 Soft Landscaping - Plant Delivery 7 days Mon 27/8/18 Tue 4/9/18 338 Soft Landscaping - Planting works (Plus 12-months 14 days Wed 5/9/18 Mon 24/9/18 Establishment Period) 339 30 days Mon 20/8/18 Wed 26/9/18 Site enclosure and divisions Construction of fence wall Mon 20/8/18 Wed 26/9/18 30 days Installation of metal gates Mon 27/8/18 Mon 24/9/18 21 days 342 Builder's works for external services 50 days Mon 30/7/18 Tue 25/9/18 Plumbing Services (see also detail programme for 766 days Mon 1/8/16 Fri 7/9/18 Plumbing trade) 344 400 days Drawing Submission and Approval (details refer to Mon 1/8/16 Mon 4/9/17 submission schedule) 345 Equipment & Material submission Approval (details refer 170 days Sun 6/11/16 Mon 24/4/17 to submission schedule) 17/3 22/3 Submission / Application of Form WWO 046 (Part I & II) Fri 17/3/17 Wed 22/3/17 G/F to R/F Plumbing Installation 96 days Thu 3/5/18 Mon 6/8/18 G/F Plumbing Installation 60 days Thu 3/5/18 Sun 1/7/18 6/7 UG Plumbing Installation Thu 3/5/18 Fri 6/7/18 65 days 350 Mon 16/7/18 16/7 1/F Plumbing Installation Fri 18/5/18 60 days 351 2/F Plumbing Installation Sat 19/5/18 Tue 17/7/18 352 3/F Plumbing Installation 60 days Wed 23/5/18 Sat 21/7/18 4/F Plumbing Installation 60 days Sun 27/5/18 Wed 25/7/18 354 R/F Plumbing Installation Wed 27/6/18 Sun 5/8/18 40 days 355 Submission of Form WWO 046 (Part IV) 1 day Mon 6/8/18 Mon 6/8/18 356 Handover of All Water Tank & Pump Rooms at UG 1 day Thu 15/3/18 Thu 15/3/18 357 Handover of All Water Tank & Pump Rooms at 2/F 1 day Mon 30/4/18 Mon 30/4/18 Testing & Commissioning 30 days Tue 17/7/18 Wed 15/8/18 359 Thu 30/8/18 Wed 5/9/18 WSD Inspection 5 days 360 Anticipated Receipt of Form WWO 046 (Part V) Thu 6/9/18 Thu 6/9/18 1 day Obtain Water Certificate Fri 7/9/18 Fri 7/9/18 1 day 362 Drainage Services (see also detail programme for 747 days Mon 1/8/16 Fri 17/8/18 Drainage trade) 363 28/11 Drawing Submission and Approval (details refer to 120 days Mon 1/8/16 Mon 28/11/16 submission schedule) 364 Equipment & Material submission Approval (details refer 120 days Sun 6/11/16 Sun 5/3/17 to submission schedule) Aboveground G/F to UR Drainage Installation 105 days Thu 3/5/18 Wed 15/8/18 I I 21/7 G/F Drainage Installation 80 days Thu 3/5/18 Sat 21/7/18 UG Drainage Installation 60 days Fri 18/5/18 Mon 16/7/18 17/6 1/F Drainage Installation 40 days Sun 17/6/18 Thu 26/7/18 Mon 2/7/18 Fri 10/8/18 2/F Drainage Installation 40 days 370 10/8 3/F Drainage Installation 40 days Mon 2/7/18 Fri 10/8/18 10/8 371 Fri 10/8/18 4/F Drainage Installation 40 days Mon 2/7/18 372 R/F Drainage Installation 14 days Sat 21/7/18 Fri 3/8/18 4/8 📥 10/8 **UR** Drainage Installation 7 days Sat 4/8/18 Fri 10/8/18 374 Sun 17/6/18 Wed 15/8/18 60 days Testina & Commissionina 375 Underground Drainage 468 days Sun 7/5/17 15/7 376 Inside Building Installation 194 days Wed 3/1/18 Sun 15/7/18 377 Inside Building Drain Test 180 days Fri 2/2/18 Tue 31/7/18 Outside Building Installation (within site boundary) 60 days Mon 18/6/18 Thu 16/8/18 379 Outside Building Drain Test (within site boundary) Fri 17/8/18 60 days Tue 19/6/18 380 Excavation Permit Application 80 days Mon 10/7/17 Wed 27/9/17 Preparation of Form HBP1 Sun 7/5/17 Sun 7/5/17 1 day 382 Submission of Form HBP1 21 days Mon 8/5/17 Sun 28/5/17 Construction of Terminal Manholes 120 days Wed 1/11/17 Wed 28/2/18 57 days Mon 5/3/18 Final Connection to Government Manhole Mon 30/4/18 16/4 385 386 15/5 Final Drainage Submission Mon 16/4/18 Tue 15/5/18 30 days 31/7 2/6 387 Electrical installations (see also detail programme for 956 days Mon 1/2/16 Wed 19/9/18 EL trade) 388 Drawing Submisssion and Approval (details refer to 300 days Sat 2/7/16 Thu 27/4/17 submission schedule) Equipment & Material Submisssion and Approval (details 300 days Sat 2/7/16 Thu 27/4/17 refer to submission schedule) Conceal conduit & Builder work for Electrical / ELV Syste 190 days Sat 14/10/17 Sat 21/4/18 8/10 21/11 G/F (G.L.1-5/A-K) Sun 8/10/17 Tue 21/11/17 G/F (G.L.5-9/A-K) 45 days Sun 15/10/17 Tue 28/11/17 22/10 5/12 UG/F (G.L.1-5/A-K) 45 days Sun 22/10/17 Tue 5/12/17 394 UG/F (G.L.5-9/A-K) Sun 29/10/17 Tue 12/12/17 12/12 45 days 395 1/F (G.L.1-5/A-K) 45 days Sun 26/11/17 17/12 396 Tue 30/1/18 1/F (G.L.5-9/A-K) 45 days Sun 17/12/17 31/12 13/2 14/1 2 2/F (G.L.1-5/A-K 45 days Sun 31/12/17 Tue 13/2/18 2/F (G.L.5-9/A-K) 45 days Sun 14/1/18 Tue 27/2/18 3/F (G.L.1-5/A-K) Mon 5/3/18 30 days Sun 4/2/18

400

3/F (G.L.5-9/A-K)

30 days

Sun 18/2/18

Mon 19/3/18

China Road and Bridge Corporation Master Construction Programme (Rev.14) Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) 21 Sept 4/F (G I 1-5/A-K Sun 18/3/18 Sun 1/4/18 15 days 402 4/F (G.L.5-9/A-K) 15 days Sun 25/3/18 Sun 8/4/18 403 22/4 29/4 R/F (G.L.1-5/A-K) 8 days Sun 22/4/18 Sun 29/4/18 404 30/4 🚋 7/5 R/F (G.L.5-9/A-K) Mon 30/4/18 Mon 7/5/18 8 days G/F to R/F Electrical Installation - First fixing 318 days Wed 18/10/17 Fri 31/8/18 14/5 G/F Flectrical installation 50 days Mon 14/5/18 Mon 2/7/18 407 Wed 18/4/18 UG Electrical installation 60 days Sat 16/6/18 \$/5 B/5 21/5 408 1/F Electrical Installation Thu 3/5/18 Sun 1/7/18 60 days 409 2/F Electrical installation Thu 3/5/18 Sun 1/7/18 60 days 410 3/F Electrical Installation 59 days Mon 21/5/18 Wed 18/7/18 4/F Electrical Installation 59 days Mon 28/5/18 Wed 25/7/18 18/6 412 Mon 18/6/18 R/F Flectrical Installation 49 days Sun 5/8/18 18/10 18/10 413 Completion of CLP G/F Tx. Room Wed 18/10/17 Wed 18/10/17 1 day 414 Installation Work of E&M Services & builder's works 59 days Thu 19/10/17 Sat 16/12/17 inside Tx Room 415 Handover G/F Tx. Room for CLP Installation Work Sun 17/12/17 Tue 2/1/18 17/12 17 days 416 CLP Installation Work in Tx. Room 120 days Wed 3/1/18 Wed 2/5/18 31/8 31/8 417 CLP Inspection & Power Energisation Fri 31/8/18 Fri 31/8/18 418 Electrical final fix (Lighting Fittings / Wiring Accessories / 50 days Mon 30/4/18 Mon 18/6/18 ELV Accessories) 419 420 25/6 60 days Mon 25/6/18 Thu 23/8/18 Mon 11/6/18 11/6 60 days 421 18/6 60 days Mon 18/6/18 Thu 16/8/18 422 60 days Mon 18/6/18 Thu 16/8/18 423 Mon 18/6/18 Thu 16/8/18 60 days 424 425 Mon 18/6/18 Thu 16/8/18 18/6 16/8 60 days Mon 18/6/18 Thu 16/8/18 18/6 16/8 60 days 426 Earthing & Lightning System 280 days Mon 6/11/17 Sun 12/8/18 23/8 Testing & Commissioning (Electrical Installation) 22 days Thu 23/8/18 Wed 19/9/18 428 31/8 T&C for Earthing & Lightning System Fri 31/8/18 45 days Wed 18/7/18 429 18/7 31/8 T&C for Megger Test of Power Cable & Wiring 45 days Wed 18/7/18 Fri 31/8/18 430 T&C for Distribution Board 18/7 31/8 Wed 18/7/18 45 days 431 18/7 31/8 T&C for Power Management System 45 days Wed 18/7/18 Fri 31/8/18 432 Fri 31/8/18 18/7 31/8 T&C for Lighting Fitting & Small Power 45 days Wed 18/7/18 433 18/7 T&C for PV System 45 days Wed 18/7/18 Fri 31/8/18 434 LVSB. System 812 days Fri 15/4/16 Thu 5/7/18 Drawing Submisssion and Approval of LVSB (details 111 days Fri 13/5/16 Wed 31/8/16 refer to submission schedule) 436 15/7 Equipment & Material Submisssion and Approval of 92 days Fri 15/4/16 Fri 15/7/16 LVSB (details refer to submission schedule) Tue 5/12/17 31 days Thu 4/1/18 Handover LV Switch Room for Elect / LV Sw.Bd. 438 E&M Work inside LV Switch Room 120 days Fri 5/1/18 Fri 4/5/18 439 LV Cubicle Switchboard Installation 90 days Tue 3/4/18 Sun 1/7/18 19/5 2/7 Site Test for LV Switchboard Sat 19/5/18 Mon 2/7/18 Handover 1/F-4/F Sub-S.W. Rm. For Electrical Work 64 days Thu 3/5/18 Thu 5/7/18 442 Generator 937 days Mon 1/2/16 Sat 25/8/18 443 14/4 31/8 Drawing Submisssion and Approval of Generator Wed 31/8/16 140 days Thu 14/4/16 (details refer to submission schedule) Equipment & Material Submisssion and Approval of 151 days Mon 1/2/16 Thu 30/6/16 Generator (details refer to submission schedule) 22/8 22/10 Submission Application for EPD (Generator Set Systen 62 days Mon 22/8/16 Sat 22/10/16 2/7 8/7 Handover 3/F & R/F Generator Room for Mon 2/7/18 Sun 8/7/18 7 days Installation Work 11/8 Mon 9/7/18 Sat 11/8/18 Diesel Generator Installation 34 days 12/8 25/8 448 Site Test for Diesel Generator Installation 14 days Sun 12/8/18 Sat 25/8/18 449 Wed 14/12/16 Thu 30/8/18 450 Drawing Submisssion and Approval of ELV (details 49 days Wed 14/12/16 Tue 31/1/17 refer to submission schedule) 451 15/8 Broadcast Reception Installation 45 days Mon 2/7/18 Wed 15/8/18 15/8 452 Burglar Alarm and Security Installation 45 days 2/7 **3** 15/8 453 Audio Electronic Installation 45 days Mon 2/7/18 Wed 15/8/18 454 T&C for CABD System 45 days Tue 17/7/18 Thu 30/8/18 17/7 30/8 Tue 17/7/18 T&C for CCTV System Thu 30/8/18 45 days 456 80/8 T&C for PA System 45 days Tue 17/7/18 Thu 30/8/18 457 17/7 T&C for Watchman Tour System Tue 17/7/18 Thu 30/8/18 30/8 45 days 458 30/8 T&C for Smart Card System 45 days Tue 17/7/18 Thu 30/8/18 T&C for Induction Loop 45 days Tue 17/7/18 Thu 30/8/18 17/7 30/8 Tue 17/7/18 T&C for energy management system 45 days Thu 30/8/18 461 Mechanical Ventilation and Air conditioning 952 days Fri 5/2/16 Wed 19/9/18 installations (see also detail programme for MVAC 462 Drawing Submisssion and Approval (details refer to 240 days Sat 14/1/17 Sun 10/9/17

Equipment & Material Submisssion and Approval (details

240 days

234 days

120 days

100 days

100 days

Fri 5/2/16

Sun 10/12/17

Sun 10/12/17

Sun 17/12/17

Sun 31/12/17

Sun 1/4/18

Sun 1/4/18

Sun 1/4/18

Tue 3/4/18

Thu 19/4/18

Sun 31/12/17

Sat 1/10/16

Tue 31/7/18

Sun 8/4/18

Sun 15/4/18

Sun 29/4/18

Sun 29/7/18

Sun 29/7/18

Sun 29/7/18

Tue 31/7/18

Mon 9/4/18

Fri 27/7/18

submission schedule)

Cooling Tower

Water Scrubber

Heat Pump Unit

Water Calorifier

Water Pump

Water Cooled Chiller

466

470

471

473

refer to submission schedule)
Major MVAC Material Delivery

Heat Transfer Compact Unit

Flat Plat type Solar Collector

8/4

10/12

China Road and Bridge Corporation **Master Construction Programme (Rev.14)** Date: 1/8/2018 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505) January 2016 | May 2016 | September 2016 | January 2017 | May 2017 | September 2017 | January 2018 | May 2018 | May 2018 | 11 December | 1 February | 21 March | 11 May | 1 July | 21 August | 11 October | 1 December | 21 January 2017 | 11 March | 1 May | 21 June | 11 August | 1 October | 21 November | 11 January | 1 March | 21 April | 11 June | 30/11 | 21/12 | 11/1 | 1/2 | 22/2 | 14/3 | 4/4 | 25/4 | 16/5 | 6/6 | 27/6 | 18/7 | 8/8 | 29/8 | 19/9 | 10/10 | 31/10 | 21/11 | 12/11 | 2/1 | 23/1 | 13/2 | 6/3 | 27/3 | 17/4 | 8/5 | 29/5 | 19/6 | 10/7 | 31/7 | 21/8 | 11/9 | 27/10 | 23/10 | 33/10 | 33/13 | 4/12 | 25/12 | 15/1 | 5/2 | 26/2 | 19/3 | 31/3 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 13/13 | 4/12 | 25/12 | 1 474 Vehicle Exhaust Extraction System 100 days Sat 31/3/18 Sun 8/7/18 475 Sat 31/3/18 Sun 8/7/18 Welding Exhaust System 100 days 476 Automatic Condenser Tube Cleaning System 100 days Sun 7/1/18 Mon 16/4/18 477 14/11 Submission & Approval of AC Layout(Initial) by WSD Tue 14/11/17 Wed 6/12/17 478 Submission/Application of form WWO 046(Part I & II) for 75 days Wed 6/12/17 Sun 18/2/18 Cooling Tower Installation 479 Submission of form WWO 046(Part IV) for Cooling 1 day Thu 16/8/18 Thu 16/8/18 Tower Installation Submission of CT1B & CT4 to EMSD for Cooling Tower 1 day Sun 19/11/17 Sun 19/11/17 Installation 481 Submission of CT2B to EMSD for Cooling Tower Mon 16/7/18 Mon 16/7/18 1 day Installation 482 Submission of VAC Drawing(Initial) to FSD 47 days Mon 31/7/17 Fri 15/9/17 Final Submission of VAC form 501 for MVAC Installation 30/6 30/ Sat 30/6/18 Sat 30/6/18 1 day 484 Conceal Conduit & Builder Work for MVAC 180 days Sun 1/10/17 Thu 29/3/18 485 G/F to R/F MVAC Installation Fri 9/2/18 Wed 22/8/18 486 21/6 G/F MVAC Installation Mon 23/4/18 Thu 21/6/18 LIG/F MVAC Installation 120 days Sat 10/2/18 Sat 9/6/18 488 Handover of UG/F Chiller Plant for MVAC Installation 9/2 9/2 Fri 9/2/18 Fri 9/2/18 1 day 489 - UG/F MVAC Installation in Chiller Plant 120 days Sat 10/2/18 Sat 9/6/18 490 9/2 9/2 Handover of UG/F AHU Rm for MVAC Installation Fri 9/2/18 Fri 9/2/18 1 day - UG/F MVAC Installation in AHU Rm 150 days Sat 10/2/18 Mon 9/7/18 6/3 6/3 492 Handover of UG/F Water Pump Rm. for MVAC 1 day Tue 6/3/18 Tue 6/3/18 493 7/3 - UG/F MVAC Installation in Water Pump Rm. 150 days Wed 7/3/18 Fri 3/8/18 494 Handover of UG/F Exhaust Air Fan Rm. for MVAC 1 day Mon 16/4/18 Mon 16/4/18 495 15/6 - UG/F MVAC Installation in Exhaust Air Fan Rm. 60 days Tue 17/4/18 Fri 15/6/18 496 Handover of UG/F MCC Rm. for MVAC Installation Tue 6/3/18 Tue 6/3/18 1 day 497 - UG/F MVAC Installation in MCC Rm 120 days Wed 7/3/18 Wed 4/7/18 498 Handover of G/F Vehicle Washing Bay for MVAC 1 day Tue 3/7/18 Tue 3/7/18 - G/F MVAC Installation in Vehicle Washing Bay 45 days Wed 4/7/18 Fri 17/8/18 500 16/7 1/F MVAC Installation Wed 18/4/18 Mon 16/7/18 2/F MVAC Installation 80 days Fri 11/5/18 Sun 29/7/18 Tue 14/8/18 3/F MVAC Installation 60 days Sat 16/6/18 503 Handover of 3/F PAU Rm (West Wing) for MVAC Fri 15/6/18 Fri 15/6/18 1 day - 3/F MVAC Installation in PAU Rm (West Wing) 50 days Thu 28/6/18 Thu 16/8/18 15/6 15/6 Handover of 3/F PAU Rm (East Wing) for MVAC 1 day Fri 15/6/18 Fri 15/6/18 506 - 3/F MVAC Installation in PAU Rm (East Wing) 60 days Sun 24/6/18 Wed 22/8/18 507 4/F MVAC Installation Tue 24/4/18 Mon 28/5/18 28/5 508 Handover of 4/F Cooling Tower Plant for MVAC 1 day Mon 25/6/18 Mon 25/6/18 Installation - 4/F MVAC Installation in Cooling Tower Plant 32 days 510 Handover of PAU Rm (West Wing) for MVAC Installation Fri 15/6/18 Fri 15/6/18 4/F MVAC Installation in PAU Rm (West Wing) 45 days Fri 6/7/18 Sun 19/8/18 512 R/F MVAC Installation 40 days Mon 2/7/18 Fri 10/8/18 513 Handover of R/F Heat Pump Plant for MVAC Installatio 1 day Sat 30/6/18 Sat 30/6/18 514 26/7 - R/F MVAC Installation in Heat Pump Plant 21 days Thu 26/7/18 Wed 15/8/18 515 5/7 | 5/7 Handover of Flat Roof for MVAC Installation Thu 5/7/18 Thu 5/7/18 516 - R/F MVAC Installation in Flat Roof 30 days Sun 22/7/18 Mon 20/8/18 25/8 Testing & Commissioning (MVAC) 20 days Sat 25/8/18 Wed 19/9/18 518 Fire services installations (see also detail programme Fri 5/8/16 Wed 5/9/18 760 days 519 Drawing Submisssion and Approval (details refer to 180 days Sat 25/2/17 Wed 23/8/17 submission schedule) 520 25/9 Equipment & Material Submisssion and Approval (details 180 days Sun 25/9/16 Thu 23/3/17 refer to submission schedule) Fri 5/8/16 Approval of GBP(Initial) by FSD & WSD 21 days Thu 25/8/16 Submission/Application of form WWO 046(Part I & II) for 76 days Sun 20/8/17 Sat 4/11/17 F.S. Installation 523 3/3 3/3 Submission of form WWO 046(Part IV) for F.S. Installatio Sat 3/3/18 Sat 3/3/18 524 Submission of Drawing for D.G. Liscence to FSD for 60 days Mon 17/10/16 Thu 15/12/16 525 30/8 30/8 Final Submission of Form314(Layout) & Form501(FS Thu 30/8/18 Thu 30/8/18 1 day related) to FSD 526 Concealed Conduit & Builder Work for FS. 199 days Sat 4/11/17 Mon 21/5/18 527 4/12 G/F to R/F F.S. Installation - First fixing 210 days Mon 4/12/17 Sun 1/7/18 528 Application of Direct Telephone Link Sat 4/11/17 Sat 4/11/17 1 day 529 Handover of G/F F.S. Transfer Pump Rm. for F.S. 15/3 15/3 1 day Thu 15/3/18 Thu 15/3/18 Installation F.S. Installation in F.S. Transfer Pump Rm. 100 days Wed 25/4/18 Thu 2/8/18 531 Handover of G/F F.S. Control Rm. for F.S. Installation Mon 12/3/18 12/3 12/3 1 day Mon 12/3/18 532 F.S. control panel Installation in F.S. control Rm. 141 days Wed 15/8/18 533 G/F FS Installation Fri 8/6/18 Sat 21/7/18 LIG/F FS Installation 44 days Wed 23/5/18 Thu 5/7/18 13/7 1/F FS Installation 44 days Thu 31/5/18 Fri 13/7/18 536 2/F FS Installation 44 days Fri 8/6/18 Sat 21/7/18 537 3/F FS Installation 44 days Sat 16/6/18 Sun 29/7/18 538 4/F FS Installation 44 days Thu 28/6/18 Fri 10/8/18 539

Handover of SPR. & F.S. Pump Rm. for F.S. Installation

F.S. Installation in SPR. & F.S. Pump Rm.

R/F FS Installation

Critical Path

41 days

0 days

28 days

Fri 6/7/18

Thu 28/6/18

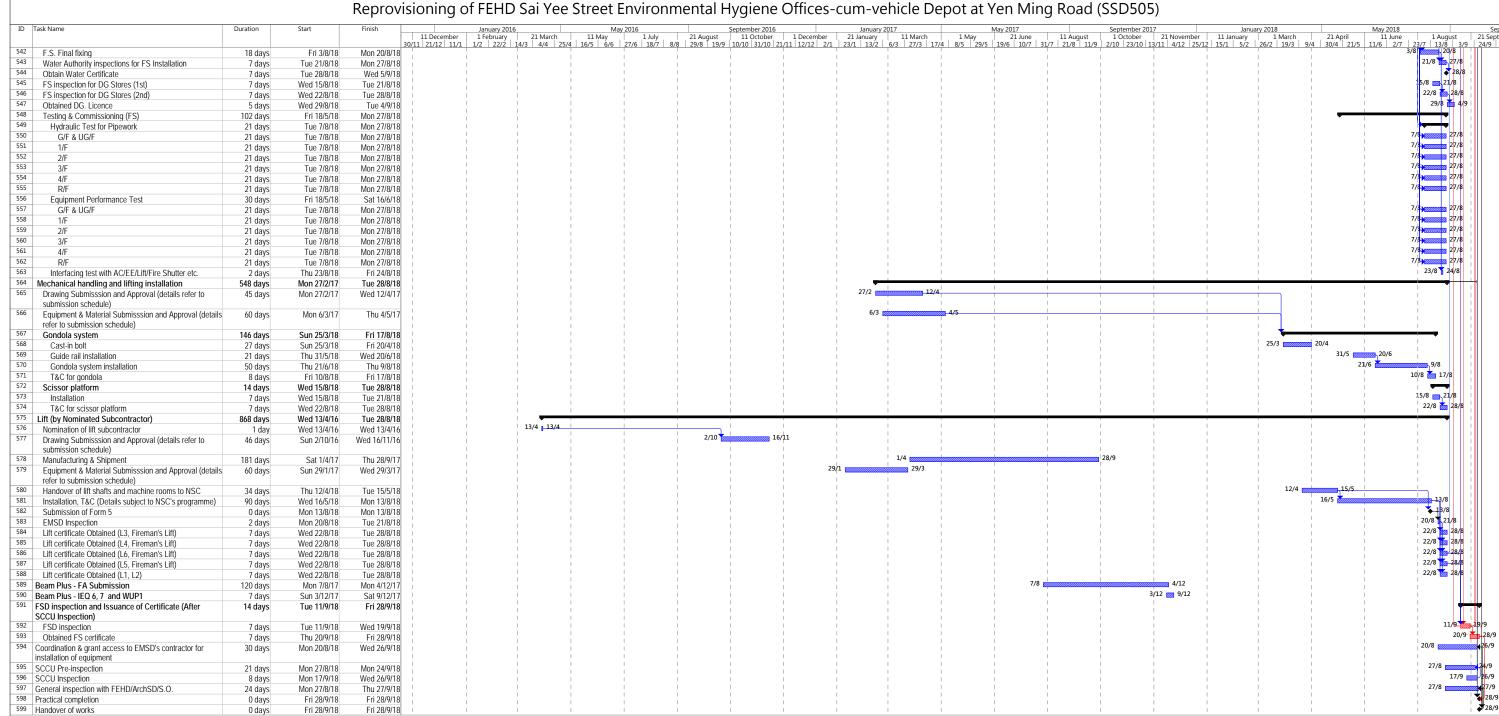
Sat 14/7/18

Wed 15/8/18

Thu 28/6/18

Fri 10/8/18

China Road and Bridge Corporation Master Construction Programme (Rev.14) Date: 1/8/2018

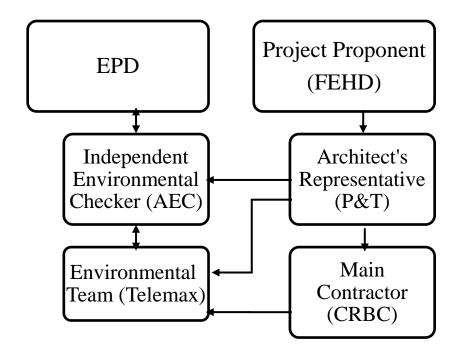


Project: SSD505 - Master Construction Date: Wed 1/8/18



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Appendix B Organization Chart

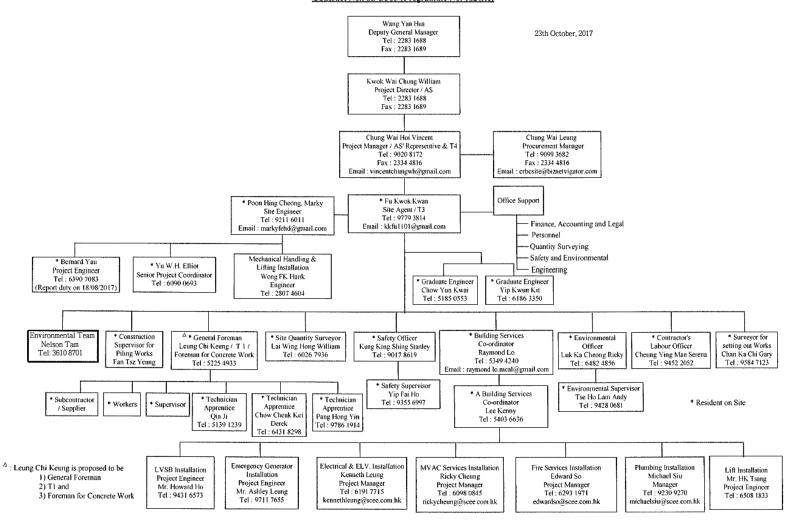








Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area Contract No.: SS D505 (Programme No. 182GK)







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Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality - Schedule of Recommended Mitigation Measures

Environmental Protection Measures		Location	Implementation Status				
	Environmental Protection Measures L		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				√	
•	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				√	
•	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				✓	
•	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				✓	





Noise – Schedule of Recommended Mitigation Measures

Environmental Protection Measures Loca Corofilly arrange the timing and sequencing of the various construction activities according to the actual site.		Implementation Status				
		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	✓				
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	✓				
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	✓				
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	✓				
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				✓	





Water Quality - Schedule of Recommended Mitigation Measures

Environmental Protection Measures Loc		Implementation Status			
Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Water Quality and Sewerage		1			
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	~			
 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; 		✓			
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 0.1m ³ /s, a sedimentation basin of 30m ³ would be required and for a flow rate of 0.5m ³ /s the basin would be 150m 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	√			
 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	✓			
 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	✓			
 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 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.					
interceptors should be emptied and clear	he drainage system downstream of any oil / fuel pollution sources. One regularly to percent the release of oil and grease into the storm water. A bypass should be provided for oil interceptors to prevent flushing.	All arous	~		
interceptors should be emptied and clear drainage system after accidental spillag during heavy rain;	he drainage system downstream of any oil / fuel pollution sources. Oned regularly to percent the release of oil and grease into the storm water. A bypass should be provided for oil interceptors to prevent flushing.	All areas	✓		
capacity equal to 110% of the storage can nearby WSRs.	be provided with locks and sited on sealed areas, within bunds of apacity of the largest tank to percent spilled fuel oils from reaching the	e All areas	✓		
WPCO. The discharge quality must mee	e licence for discharge of effluent from the construction site under the the requirements specified in the discharge license.	All areas	✓		
standards listed in the Technical Memora		All areas	✓		
 Minimum distance of 100m should be n the existing seawater intakes. 	naintained between the discharge points of construction site effluent an	d All areas	✓		
No new effluent discharges in nearby type	phoon shelters should be allowed.	All areas	✓		
and general cleaning etc., would minimis	ent for other on-site activities such as dust suppression, wheel washing se water consumption and reduce the effluent discharge volume.	All areas	✓		
sewage generated by the workforce. A	holding tanks are recommended for the handling of the construction licensed contractor should be employed to provide appropriate and ble for appropriate disposal and maintenance.		✓		
interceptors should be provided. Mainte	located on hard standings within a bunded area, and sumps and ornance of vehicles and equipment involving activities with potential for undertaken within the areas appropriately equipped to control these	or All areas	~		
connections to minimise water quality Technical Memorandum on Standards for Coastal Water under the WPCO.	uld be collected and diverted to the public sewerage system via proposimpact from the operation of the Project and ensure compliance with Effluents Discharged into Drainage and Sewerage Systems, Inland and	h Office-cum- d Vehicle Depot	-		✓
from the covered areas including the very prior to the discharge into the sewerage system should comply with the effluent	vastewater from entering the existing public sewerage systems, run-of chicle washing bays and vehicle parking space will be properly treated system. The treated effluent for discharging into the public sewerage t standards as stated in the Technical Memorandum on Standards for Sewerage Systems, Inland and Coastal Waters under the WPCO.	Office-cum- Vehicle Depot	-		√
	r a discharge licence for discharge of the operational effluent from the quality must meet the requirements specified in the discharge licence.	The Office-cum- Vehicle Depot	-		✓





Waste – Schedule of Recommended Mitigation Measures

Environmental Protection Measures		Location	Implementation Status			
	Environmental Protection Measures Lo		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	l areas	✓		
•	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	All	l areas	✓		
•	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All	l areas	✓		
•	Sorting of demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.).		l areas	✓		
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All	l areas	✓		
•	Encourage collection of aluminum cans by providing separate labeled buns to enable this waste to be segregated	All	l areas	✓		
	from other general refuse generated by the workforce.					
•	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	All	l areas	✓		
•	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	All	l areas	✓		
•	Waste haulier must hold a valid permit for the collection of waste as stipulated in their permits, Removal of waste should be done in a timely manner.	All	l areas	✓		
•	Register as a Chemical Waste Producers to the EPD	All	l areas	✓		
•	Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;		l areas	✓		
•	Having a capacity of <450L unless the specifications have been approved by the EPD;		l areas	✓		
•	Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations;		l areas	✓		
•	Clearly labelled and used solely for the storage of chemical wastes;	Δ11	l areas	√		
	Enclosed with at least 3 sides;		l 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;		l areas	✓		
-	Adequate ventilation;	A 11	l areas	√		
-		All	i areas	V		
•	Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary);		l areas	✓		
•	Incompatible materials are adequately separated.	All	l 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 by licensed collectors.		l areas	✓		
•	The requirements stipulated in the Code of Practice on the Packaging. Labelling and Storage of Chemical Wastes should be followed in handling of chemical waste as in construction phase.	Offic Ve D	ehicle 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.	Offic Ve	The ce-cum-ehicle			√
•	The recommendations proposed for the mitigation of impacts from chemical waste in construction phase should also be followed.	Offic Ve	The ce-cum- ehicle Depot			✓



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	The	✓
Provide recycling bins at designated areas for proper recycling of papers, aluminum cans and plastics bottles	Office-cum-	,
1 rovide recycling only at designated areas for proper recycling of papers, analyment cans and plastics bottles	Vehicle	
	Depot	
	The	
Separation from other waste types and collected by licensed collectors at daily basis to minimize the poter	tial Office-cum-	✓
impacts from odour and vermin.	Vehicle	
·	Depot	
	The	,
	Office-cum-	✓
Storage of Chemicals and Chemical Wastes	Vehicle	
	Depot	
	The	
	Office-cum-	✓
Emergency Procedures	Vehicle	
	Depot	
	The	
		✓
Spillage/leakage of Liquid Chemical/Waste at Storage Area	Office-cum- Vehicle	
	Depot	
	The	✓
Spillage/Leakage at Repairing and Maintenance Areas	Office-cum-	
ar again and an area area	Vehicle	
	Depot	
	The	√
Record of Incidents	Office-cum-	,
Record of incidents	Vehicle	
	Depot	
	The	✓
Dragodyrag for Dignogal of Wagter	Office-cum-	Y
Procedures for Disposal of Wastes	Vehicle	

Depot



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Environmental Protection Measures		Location	Implementation Status				
	Environmental Protection Measures Lo		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	✓				
•	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				✓	
•	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



T21





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Appendix D Calibration Certificates

华测检测



校准证书

CALIBRATION CERTIFICATE

证书编号 XC1821391452I16-02 第1页共6页 Certificate No. 委托单位 上峰检测认证有限公司 Client 委托单位地址 香港荃湾海盛路3号TML广场10楼D6A室 Address 声级计 计量器具名称 Description Sound Level Meter 型号规格 AWA5661 Model /Type 制造商 爱华 Manufacturer 号 委托日期 2018-06-26 编 304042 Application Date Serial No. 结 论 见校准结果页 Show in the result of calibration Conclusion 校 准 Calibrated by







校准日期 Calibration Date

2018年06月29日

建议下次校准日期 Next Calibration Date 2019年06月28日

M

地址: 深圳市宝安区西乡铁岗水库桃花源科技创新园C栋公共检测中心

邮政编码(Post No.): 518101

Address: Public Testing Centre, Building C, Innovation Park, Taohuayuan, Tiegang Reservoir, Xixiang, Bao'an District, Shenzhen http://www.cti-cert.com E-mail: calibration@cti-cert.com 电话(Tel):86-755-33682770 传真(Fax): 86-755-33683385

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com

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



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DIRECTIONS

证书编号

XC1821391452I16-02

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Page

Certificate No.

1. 本公司出具的数据均可溯源到国家计量基准和国际单位制(SI).

The data is based on the national measurement standards and SI unit standards.

2. 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书.

The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTI.

3. 本证书校准结果只与受校准仪器有关.

The results relate only to the items calibrated.

4. 本次校准的技术依据: 参照 JJG188-2002 《声级计检定规程》

Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

main measure equipments are a	sea in the cultoration	•	
设备名称/型号	编号	证书号/有效期	计量特性
Name of Equipment/Model	Serial No.	Certificate No./Due Date	Technical Characteristic
测量放大器/AWA5810D Measuring Amplifier	089909	SSD201800032 /2018-12-27	10Hz~200Hz; <i>U</i> =0.5dB, <i>k</i> =2 250Hz~400Hz; <i>U</i> =0.4dB, <i>k</i> =2 500Hz~1.25kHz; <i>U</i> =0.4dB, <i>k</i> =2 1.6kHz~10kHz; <i>U</i> =0.6dB, <i>k</i> =2 12.5kHz~20kHz; <i>U</i> =1.0dB, <i>k</i> =2
声校准器/4231 Acoustic Calibrator	3014336	SSD201800030 /2018-12-27	1级合格
消声箱/AWA188 Anechoic Chamber	080312	173606092 /2018-12-27	U=0.8dB,k=2
信号发生器/AWA1650 Signal Generator	089943	SSD201800033 /2019-01-01	电平:U=0.1dB,k=2 频率:U _{rel} =0.01%,k=2
传声器/4192-L-001 Acoustic Calibrator	2996596	SSD201800031 /2019-01-02	20Hz~4kHz; <i>U</i> =0.2dB, <i>k</i> =2; 5kHz~20kHz; <i>U</i> =0.5dB, <i>k</i> =2

6. 校准地点、环境条件:

Place and environment condition during calibration

地点:

CTI声学室

温度: 21.3 ℃

相对湿度:

50 %RH

Place:

CTI Acoustics Lab

Temperature:

RH:

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校准结果

RESULTS OF CALIBRATION

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证书编号 Certificate No. XC1821391452I16-02

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一、外观及工作正常性检查: 正常

Appearance and Performance checked: Normal

二、指示声压级调整(1000Hz):

计权方式 A

声压级标准值(dB) 调校前声压级示值(dB) 调校后声压级示值(dB)

三、级程变化误差(1000Hz):

声压级标准值(dB)	声压级指示值(dB)	误差(dB)	最大允差(dB)
34	34.2	+0.2	± 1.1
44	44.0	0.0	± 1.1
54	54.0	0.0	± 1.1
64	64.1	+0.1	± 1.1
74	74.1	+0,1	± 1,1
84	84.1	+0.1	± 1,1
94	94.1	+0.1	± 1.1
104	104.1	+0.1	± 1.1
114	114.1	+0.1	± 1.1

四、本机(固有)噪声:

A计权

实测值(dB)

声信号

23.1

电信号

17.3

五、	级限性	(頻率1000Hz)	:
----	-----	------------	---

起始点指示声级 90 dB

測量项目	实瀏值(dB)	最大允差(dB)
起始点以上每间隔IdB最大误差	00	± 0.6
起始点以下每间隔1dB最大误差	+0.1	± 0.6
起始点以上每间隔10dB最大误差	-0.1	± 0.6
起始点以下每间隔10dB最大误差	+0.2	± 0.6

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校准结果

RESULTS OF CALIBRATION

	RESCEIS	OI CHEIDICA		第4页共6
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Certificate No.				Page of
六、频率响应:				
1、A计权				
频率(Hz)	A计权标准值(dB)	允许范围(dB)	A计权响应(dB)	
10	-70.4	-66.9 ~ ∞	-71.0	
20	-50.5	-53.0 ~ -48.0	-50.7	
31.5	-39.4	-37.4 ~ -41.4	-39.7	
63	-26.2	-24.7 ~ -27.7	-26.3	
125	-16.1	-14.6 ~ -17.6	-16.2	
250	-8.6	-7.2 ~ -10.0	-8.7	
500	-3.2	-1.8 ~ -4.6	-3.2	
1000	0.0	+1.1 ~ -1.1	0.0	
2000	1.2	+2.8 ~ -0.4	+1.3	
4000	1.0	+2.6 ~ -0.6	+1.3	
8000	-1.1	+1.0 ~ -4.2	-1.4	
16000	-6.6	-3.1 ~ -23.6	-9.5	
20000	-9.3	-5.3 ~ ∞	-21.2	
2、C计权				
频率(Hz)	C计权标准值(dB)	允许范围(dB)	C计权响应(dB)	
10	-14.3	-10.8 ~ ∞	-15.6	
20	-6.2	+3.7 ~ -8.7	-6.6	
31.5	-3.0	+1.0 ~ -5.0	-3.2	
63	-0,8	+0.7 ~ -2.3	-0.9	
125	-0.2	+1.3 ~ -1.7	-0.3	
250	0.0	+1.4 ~ -1.4	-0.1	
500	0.0	+1.4 ~ -1.4	0.0	
1000	0.0	+1.1 ~ -1.1	0.0	
2000	-0.2	+1.4 ~ -1.8	-0.1	
4000	-0.8	+0.8 ~ -2.4	-0.6	
8000	-3.0	-0.9 ~ -6.1	-2.3	
16000	-8.5	-5.0 ~ -25.5	-11.5	

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com

-11.2

20000

-7.2 ~ ∞

-23.1

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校准结果

RESULTS OF CALIBRATION

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3、Z计权

频率(Hz)	Z计权标准值(dB)	允许范围(dB)	Z计权响应(dB)
10	0.0	+3.5 ~ ∞	-1.2
20	0.0	+2.5 . ~ -2.5	-0.3
31.5	0.0	+2.0 ~ -2.0	-0.1
63	0.0	+1.5 ~ -1.5	0.0
125	0.0	+1.5 ~ -1.5	0.0
250	0.0	+1.4 ~ -1.4	0.0
500	0.0	+1.4 ~ -1.4	0.0
1000	0.0	+1.1 ~ -1.1	0.0
2000	0.0	+1.6 ~ -1.6	0.0
4000	0.0	+1.6 ~ -1.6	0.0
8000	0.0	+2.1 ~ -3.1	0.0
16000	0.0	+3.5 ~ -17.0	+0.2
20000	0.0	+4.0 ~ ∞	-0.1

七、过载指示误差 0.0 dB (允差: ± 1.8 dB)

八、F和S时间计权:

衰减速率(dB/s)	实测值(dB/s)	允许范围(dB/s)
快(F)计权	34.6	>25
慢(S)计权	4.4	3.4~5.3

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校准结果

RESULTS OF CALIBRATION

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+0.8 ~ -0.8

+0.8 ~ -0.8

+1.3 ~ -1.3

+1.3 ~ -2.3

九、	峰值C声级: 周期数 I	信号频率(500	. ,)标准值(dB) 5.5	(Lepeak-Le)指示 3.3	示値(dB) 误差(dB) -0,2	最大允差(dB) ± 1.4
	1	8000	3	3.4	2.9	-0.5	± 2.4
十、	猝发音响应(A计	权):					
	猝发音持续时	间(ms)	L _{AFmax} -L _A 标准值	L_{AFmax} - L_{A}	指示值 误差(d	B) 允许范围	∄(dB)
	500		-0.1	-0.1	0.0	+0.8 ~	-0.8
	200		-1.0	-1.0	0.0	+0.8 ~	-0.8
	50		-4.8	-5.0	-0.2	+1,3 ~	-1.3
	10		-11.1	-11.5	-0.4	+1.3 ~	-1.3
	猝发音持续时	闰(ms)	L _{ASmax} -L _A 标准值	L _{SFmax} -L _A #	景示值 误差(d	B) 允许范围	∄(dB)

-7.4

-13.1

-20.0

0.0

0.0

说明(Notes):

1、依据JJF1059.1-2012测量不确定度评定与表示,本次校准结果的扩展不确定度为:

-4.3

-7.4

-13.1

-20.0

 $10 \text{Hz} \sim 200 \text{Hz}; \ \ U = 0.5 \text{dB}, \ \ k = 2; \ \ 250 \text{Hz} \sim 1.25 \text{kHz}; \ \ U = 0.4 \text{dB}, \ \ k = 2;$

1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2

According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement, Expanded uncertainty of

measurement: $10\text{Hz}\sim200\text{Hz}$: U=0.5dB, k=2; $250\text{Hz}\sim1.25\text{kHz}$: U=0.4dB, k=2; 1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2

2、校准项目1级合格

Passed at class I calibrated item

500

200

50

3、 仪器配传声器型号: AWA144251; 传声器编号: 11296

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证书编号



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of

校准证书

CALIBRATION CERTIFICATE

Certificate No. 委托单位 上峰检测认证有限公司 Client 香港荃湾海盛路3号TML广场10楼D6A室 委托单位地址 Address 声级计 计量器具名称 Description Sound Level Meter 型号规格 AWA5661

XC1821391664N10-03

Model /Type 制造商 杭州爱华仪器有限公司

Manufacturer 묵 090078 委托日期 2018-09-21 编 Application Date Serial No.

2018-09-28 签发日期 论 结 见校准结果页 Conclusion



Inspected by Approved by 授权签字人

校

Calibrated by

2019年09月21日 建议下次校准日期 2018年09月22日 校准日期 Next Calibration Date M Calibration Date Y D

地址: 深圳市宝安区西乡铁岗水库桃花源科技创新园C栋公共检测中心

邮政编码(Post No.): 518101

Address: Public Testing Centre, Building C, Innovation Park, Taohuayuan, Tiegang Reservoir, Xixiang, Bao'an District, Shenzhen E-mail: calibration@cti-cert.com 电话(Tel):86-755-33682770 传真(Fax): 86-755-33683385

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GTI华观检测

明

DIRECTIONS

证书编号

XC1821391664N10-03

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of

Page

Certificate No.

1, 本公司出具的数据均可溯源到国家计量基准和国际单位制(SI).

The data is based on the national measurement standards and SI unit standards.

2. 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书.

The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTL

3. 本证书校准结果只与受校准仪器有关.

The results relate only to the items calibrated.

4. 本次校准的技术依据: 参照 JJG188-2017 《声级计检定规程》

Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

设备名称/型号	编号	证书号/有效期	计量特性
Name of Equipment/Model	Serial No.	Certificate No./Due Date	Technical Characteristic
测量放大器/AWA5810D Measuring Amplifier	089909	SSD201800032 /2018-12-27	10Hz~200Hz: <i>U</i> =0.5dB, <i>k</i> =2 250Hz~400Hz: <i>U</i> =0.4dB, <i>k</i> =2 500Hz~1.25kHz: <i>U</i> =0.4dB, <i>k</i> =2 1.6kHz~10kHz: <i>U</i> =0.6dB, <i>k</i> =2 12.5kHz~20kHz: <i>U</i> =1.0dB, <i>k</i> =2
声校准器/4231 Acoustic Calibrator	3014336	SSD201800030 /2018-12-27	1级合格
消声箱/AWA188 Anechoic Chamber	080312	173606092 /2018-12-27	U=0.8 dB, k=2
信号发生器/AWA1650 Signal Generator	089943	SSD201800033 /2019-01-01	电平;U=0.1dB,k=2 频率;U _{rel} =0.01%,k=2
传声器/4192-L-001 Acoustic Calibrator	2996596	SSD201800031 /2019-01-02	20Hz~4kHz: <i>U</i> =0.2dB, <i>k</i> =2; 5kHz~20kHz: <i>U</i> =0.5dB, <i>k</i> =2

6. 校准地点、环境条件:

Place and environment condition during calibration

CTI声学室 地点:

温度: 23.4 ℃

相对湿度:

57 %RH

Place:

CTI Acoustics Lab

Temperature:

RH:



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校准结果

RESULTS OF CALIBRATION

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一、外观及工作正常性检查: 正常

Appearance and Performance checked:

二、指示声压级调整(1000Hz):

接受限(dB) 声压级标准值(dB) 调校前声压级示值(dB) 调校后声压级示值(dB) 计权方式 ± 0.3 93.9 未调

三、频率计权的声信号实验(1000Hz):

声压级标准值(dB)	声压级指示值(dB)	误差(dB)	接受限(dB)
34	34.3	+0.3	33.2 ~34.8
44	44.1	+0.1	43.2 -44.8
54	54.1	+0,1	53.2 ~54.8
64	64.0	0.0	63.2 ~64.8
74	74.0	0.0	73.2 ~74.8
84	84.0	0.0	83.2 ~84.8
94	93.9	-0.1	93.2 ~94.8
104	103.9	-0.1	103.2 ~104.8
114	113.9	-0.1	113.2 ~114.8
124	123.9	-0.1	123.2 ~124.8

四、自生噪声:

测试类型	频率计权	实测值(dB)
声信号	Λ	22.1
	A	13.3
电信号	C	23.4
	Z	27.1

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校准结果

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+0.1

 ± 0.3

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距下限5dB内每隔1dB最大偏差

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Certificate No.

起始点指示声级 90 dB 五、级线性(频率1000Hz): 接受限(dB) 实测值(dB) 測量项目 频率 +0.1 $\pm~0.3$ 起始点以上每间隔10dB最大误差 起始点以下每间隔10dB最大误差 $\pm~0.3$ +0.21000 $\pm~0.3$ 距上限5dB内每隔1dB最大偏差 0.0 $\pm~0.3$ 距下限5dB内每隔1dB最大偏差 +0.1 ± 0.3 起始点以上每间隔10dB最大误差 +0.1 起始点以下每间隔10dB最大误差 +0.2 $\pm~0.3$ 8000 ± 0.3 距上限5dB内每隔IdB最大偏差 +0.1

六、频率计权:

1、A计权

频率(Hz)	A计权标准值(dB)	A计权响应(dB)	接受限(dB)
10	-70.4	-70.5	-67.4 ~ ∞
20	-50.5	-50.5	-48.5 ~ -52.5
31.5	-39.4	-39.5	-37.9 ~ -40.9
63	-26.2	-26.2	-25.2 ~ -27.2
125	-16.1	-16.1	-15.1 ~ -17.1
250	-8.6	-8.6	-7.6 ~ -9.6
500	-3.2	-3.2	-2.2 ~ -4.2
1000	0.0	0.0	+0.7 ~ -0.7
2000	1.2	+1.2	+2.2 ~ +0.2
4000	1.0	+1.0	+2.0 ~ 0.0
8000	-1.1	-1.1	+0.4 ~ -3.6
16000	-6.6	-6.7	-4.1 ~ -22.6
20000	-9.3	-19.2	-6.3 ~ ∞

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校准结果

RESULTS OF CALIBRATION

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2、C计权					
频率(Hz)	C计权标准值(dB)	C计权响应(dB)	接受限(dB)		
10	-14.3	-14.7	-11.3 ~ ∞		
20	-6.2	-6.4	-4.2 ~ -8.2		
31.5	-3.0	-3.1	-1.5 ~ -4.5		
63	-0.8	-0.8	+0.2 ~ -1.8		
125	-0.2	-0.2	+0.8 ~ -1.2		
250	0.0	0.0	+1.0 ~ -1.0		
500	0.0	0.0	+1.0 ~ -1.0		
1000	0.0	0.0	+0.7 ~ -0.7		
2000	-0.2	-0.2	+0.8 ~ -1.2		
4000	-0.8	-0.8	+0.2 ~ -1.8		
8000	-3.0	-3.1	-1.5 ~ -4.5		
16000	-8.5	-8.3	-6.0 ~ -24.5		
20000	-11.2	-11.0	-8.2 ~ ∞		
3、Z计权					
频率(Hz)	Z计权标准值(dB)	Z计权响应(dB)	接受限(dB)		
10	0.0	0.0	+3.0 ~ ∞		
20	0.0	0.0	+2.0 ~ -2.0		
31.5	0.0	0.0	+1.5 ~ -1.5		
63	0.0	0.0	+1.5 ~ -1.5		
125	0.0	0.0	+1.0 ~ -1.0		
250	0.0	0.0	+1.0 ~ -1.0		
500	0.0	0.0	+1.0 ~ -1.0		
1000	0.0	0.0	+0.7 ~ -0.7		
2000	0.0	0.0	+1.0 ~ -1.0		
4000	0.0	0.0	+1.0 ~ -1.0		
8000	0.0	0.0	+1.5 ~ -2.5		
16000	0.0	0.0	+2.5 ~ -16.0		
20000	0.0	-0.2	+3.0 ~ ∞		



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校准结果

RESULTS OF CALIBRATION

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七、1kHz处的频率计权:

A计权参考声级(dB) C频率计权相对A频率计权的偏差(dB) Z频率计权相对A频率计权的偏差(dB)

0,

0.0

0.0

接受限(dB) ±0.2

八、F和S时间计权:

衰减速率(dB/s)	实测值(dB/s)	接受限(dB/s)
快(F)计权	35.4	31.0~38.5
慢(S)计权	4.6	3.6~5.1

九、猝发音响应(A计权):

猝发音持续时间(ms)	L _{AFmax} -L _A 标准值	L _{AFmax} -L _A 指示值	接受限(dB)
200	-1.0	-1.0	-0.5~-1.5
50	-4.8	-18.1	-17.0~-18.5
10	-11.1	-27.3	-26.0~-30.0
猝发音持续时间(ms)	L _{ASmax} -L _A 标准值	L _{SFmax} -L _A 指示值	接受限(dB)
200	-7,4	-7.3	-6.9~-7.9
2	-27.0	-26.8	-26.0~-30.0

说明(Notes):

1、 依据JJF1059.1-2012测量不确定度评定与表示,本次校准结果的扩展不确定度为:

10Hz~200Hz: U=0.5dB, k=2; 250Hz~1.25kHz: U=0.4dB, k=2;

1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2

According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement. Expanded uncertainty of

measurement: 10Hz~200Hz; U=0.5dB, k=2; 250Hz~1.25kHz; U=0.4dB, k=2;

1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2

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校准结果

RESULTS OF CALIBRATION

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2、校准项目符合1级技术要求

The calibrated items are accord with class 1 technical specifications

3、 仪器配传声器型号: AWA14425: 传声器编号: 14075

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校准证书

CALIBRATION CERTIFICATE

XC1821391089I16-01 证书编号 Certificate No. 委托单位 上峰检测认证有限公司 Client 香港新界荃湾海盛路3号TML广场10楼D6A室 委托单位地址 Address 声级校准计 计量器具名称 Description 型号规格 Pulsar100B Model /Type 制造商 Pulsar Manufacturer 委托日期 2018-02-07 号 039507 编 Application Date Serial No. 结 论 见校准结果页 Show in the result of calibration Conclusion Calibrated by





Inspected by Approved by



2018年02月07日 校准日期 Calibration Date

建议下次校准日期 Next Calibration Date 2019年02月06日 Y M

授权签字人

地址: 深圳市宝安区西乡铁岗水库桃花源科技创新园C栋公共检测中心

邮政编码(Post No.): 518101

Address: Public Testing Centre, Building C, Innovation Park, Taohuayuan, Tiegang Reservoir, Xixiang, Bao'an District, Shenzhen 电话(Tel):86-755-33682770 传真(Fax): 86-755-33683385 E-mail: calibration@cti-cert.com http://www.cti-cert.com

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DIRECTIONS

证书编号

XC1821391089I16-01

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Certificate No.

1. 本公司出具的数据均可溯源到国家计量基准和国际单位制(SI).

The data is based on the national measurement standards and SI unit standards.

2. 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书.

The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTI.

3. 本证书校准结果只与受校准仪器有关.

The results relate only to the items calibrated.

4. 本次校准的技术依据: 参照 JJG176-2005 《声校准器检定规程》

Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

设备名称/型号	编号	证书号/有效期	计量特性
Name of Equipment/Model	Serial No.	Certificate No./Due Date	Technical Characteristic
测量放大器/AWA5810D Measuring Amplifier	089909	SSD201800032 /2018-12-27	10Hz~200Hz; <i>U</i> =0.5dB, <i>k</i> =2 250Hz~400Hz; <i>U</i> =0.4dB, <i>k</i> =2 500Hz~1.25kHz; <i>U</i> =0.4dB, <i>k</i> =2 1.6kHz~10kHz; <i>U</i> =0.6dB, <i>k</i> =2 12.5kHz~20kHz;
声校准器/4231 Acoustic Calibrator	3014336	SSD201800030 /2018-12-27	1级合格
万用表/3458A Digital Multimeter	MY45043196	校准字第201706011327 号 /2018-06-18	DCV: U =0.0004~5.7mv, k =2 ACV: U =0.002~1 lmv, k =2 DCI: U =0.004~23μΛ, k =2 ACV: U =0.003~30μΛ, k =2 R:0.0009Ω~0.003ΜΩ, k =2

6. 校准地点、环境条件:

Place and environment condition during calibration

地点:

CTI声学室

温度: 19.3 ℃

相对湿度:

46 %RH

Place:

CTI Acoustics Lab

Temperature:

RH:

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校准结果

RESULTS OF CALIBRATION

证书编号

XC1821391089I16-01

Certificate No.

Appearance and Performance checked:

二、 声压级测试:

Sound Pressure Level Calibration:

一、外观及工作正常性检查: 正常

标称值	实测值	示值误差	允差	短期级漂移	允差	扩展不确定度
Nominal Value	Actual Value	Indication Error	MPE	Drift	MPE	Expanded Uncertainty
(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(k=2)
94	93.93	+0.07	$\pm~0.40$	0.01	≤ 0.10	U = 0.30 dB
104	103.90	+0.10	± 0.40	0.01	≤ 0.10	U = 0.30 dB

三、频率测试:

requency.				
标称值	实测值	示值误差	允差	扩展不确定度
Nominal Value	Actual Value	Indication Error	MPE	Expanded Uncertainty
(Hz)	(Hz)	(%)	(%)	(k=2)
1000	1000	0.0	≤ 1.0	$U_{\rm rel} = 0.2\%$

四、总失真测试:

Harmonic Distortion:

频率	声压级	总失真	允差	扩展不确定度
Frequency	Sound Pressure Level	Harmonic Distortion	MPE	Expanded Uncertainty
(Hz)	(dB)	(%)	(%)	(k=2)
1000	94	0.3	≤ 3.0	$U_{\rm rel}$ = 1.5%
1000	104	0.3	≤ 3.0	$U_{\rm rel}$ = 1.5%

说明(Notes):

1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。

Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in measurement.

2、校准项目1级合格

Passed at class 1 calibrated item

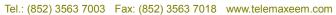
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Appendix E Impact Monitoring Data of Noise

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 Area

Da	ta of Monitoring												2/10)/18											
Mo	nitoring Location												NSR1	. (EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	ne Sec Scho	ool										
Sou	ind Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status												Sui	nny											
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)										
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)	65.6	65.8	66.2	66.6	67.4	67.5	66.9	67.3	68.4	67.1	66.9	66.5	67.2	66.5	66.8	65.4	65.9	66.3	66.7	67.6	66.3	65.9	65.4	64.1
	L90 dB(A)	57.9	57.7	58.2	59.1	61.2	61.4	60.8	61.3	62.5	61.9	60.3	60.7	61.1	60.6	61.0	59.5	58.9	60.3	61.4	62.0	61.7	59.2	58.5	58.4
Measured Noise	Leq dB(A)	63.1	63.9	64.4	64.3	65.5	65.0	64.7	65.9	66.2	65.3	64.7	64.6	65.1	64.3	64.2	63.8	63.7	64.8	64.9	65.3	64.2	63.7	63.6	62.8
Level (dB(A))	L10 (Average)												66	.6											
	L90 (Average)												60	.4											
	Leq (30 min)												64	.6											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for so	hool / 65 c	IB(A) during	examinati	on									
Site Co	onstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Colyn	31/10/18

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	ata of Monitoring												2/10)/18											
Mo	onitoring Location												NSR7	' (EP)											
Descri	iption of the Location												Fu Yun	House											
6												Sound lev	el meter : A	WA5661 S	/N090078										
Sound Level IVI	lethod (Model and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status												Sui	nny											
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)										
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)	70.4	70.6	71.4	70.7	71.6	72.2	72.5	73.3	74.4	74.6	75.3	76.4	75.8	75.2	74.4	75.3	75.5	74.1	74.7	73.3	72.6	71.1	71.5	71.3
	L90 dB(A)	64.1	64.5	65.1	64.3	65.2	66.3	66.1	66.8	67.1	67.6	66.7	69.3	67.8	66.5	67.1	66.8	65.4	66.9	66.3	65.4	64.7	65.8	65.3	65.0
Measured Noise	Leq dB(A)	68.6	68.2	69.1	68.7	69.9	70.1	70.6	71.8	72.3	72.7	73.9	74.0	73.7	73.1	72.5	73.4	73.0	72.8	72.4	71.7	70.8	69.3	69.0	69.4
Level (dB(A))	L10 (Average)												73	.6											
	L90 (Average)												66	.3											
	Leq (30 min)												71	.7											
Noise Li	imit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Drilling & H	lammering											
Other Noise S	ources During Measurement											Hur	man Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Colyn	31/10/18

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





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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 Area

Da	ta of Monitoring												8/10	1/18											
	nitoring Location												NSR1												$\overline{}$
	•											· ·		. ,											
	otion of the Location													ne Sec Sch											
Sou	nd Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status												Sur	nny											
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)										
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)	64.7	64.8	65.1	66.9	66.3	66.7	67.4	67.1	67.6	66.8	66.4	67.3	67.7	67.2	66.9	66.5	65.4	65.1	65.3	64.7	64.8	65.5	64.8	64.2
	L90 dB(A)	57.5	58.1	58.6	59.2	60.1	60.5	62.6	62.5	62.4	62.7	62.0	61.6	61.4	61.3	61.8	61.9	59.5	59.2	59.0	58.1	57.2	58.5	59.4	59.6
Measured Noise	Leq dB(A)	62.6	63.1	63.5	64.5	64.4	64.2	65.1	65.3	65.5	64.7	64.8	65.3	65.8	65.0	64.8	64.6	63.9	63.5	63.1	62.6	62.5	63.4	62.5	62.8
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												60	.5											
	Leq (30 min)												64	.2											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	B(A) during	examinati	ion									
Site Co	nstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Calgar	31/10/18

Noise Monitoring Record Sheet

Contract No: SS D505

Da	ita of Monitoring												8/1	0/18											
Mo	nitoring Location												NSR.	7 (EP)											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S,											
Weather	Status												Su												
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)											
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)	71.1	72.5	71.4	70.6	70.7	72.8	72.2	73.1	74.5	74.7	75.6	75.8	75.7	76.6	75.8	75.1	74.3	73.5	73.4	74.9	73.2	72.1	71.6	72.2
	L90 dB(A)	64.2	65.1	64.9	64.4	63.9	64.6	65.1	65.6	66.7	66.3	67.4	67.1	66.9	67.8	66.2	67.0	66.9	65.8	65.2	66.9	65.4	65.3	64.5	65.1
Measured Noise	Leq dB(A)	69.3	70.0	69.1	68.8	68.9	70.7	70.3	71.1	72.8	72.3	73.4	73.3	73.9	74.1	73.5	73.4	72.2	71.3	71.8	72.0	71.4	70.3	69.2	70.1
Level (dB(A))	L10 (Average)			-			-						73	.8			-						-		
	L90 (Average)												65	.9											
	Leq (30 min)												71	.7											
Noise Li	mit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hui	man Activit	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Colyn	31/10/18





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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 Area

Dr	ta of Monitoring												12/1	0/18											
														•											
	nitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	ne Sec Sch	ool										
Sou	ınd Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										l
Weather	Status												Sur	nny											
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)										
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)	64.4	65.8	64.7	65.9	66.3	66.8	65.1	66.8	67.0	67.3	66.8	67.7	66.2	65.1	65.5	66.9	66.7	66.1	65.3	66.6	66.5	65.1	65.4	65.3
	L90 dB(A)	58.2	57.5	58.1	58.5	59.7	60.6	59.4	60.3	61.4	61.8	60.7	61.9	60.5	59.7	58.8	61.7	60.5	61.1	60.3	61.8	60.4	59.5	58.6	58.7
Measured Noise	Leq dB(A)	62.1	63.3	62.5	63.8	64.5	64.1	63.8	64.6	65.2	65.0	64.7	65.8	64.1	63.6	63.7	64.4	64.8	64.0	63.7	64.5	64.1	63.2	63.7	63.2
Level (dB(A))	L10 (Average)												66	.1											
	L90 (Average)												60	.2											
	Leq (30 min)												64	.1											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	IB(A) during	examinati	ion									
Site Co	onstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Calgar	31/10/18

Noise Monitoring Record Sheet

Contract No: SS D505

Da	ita of Monitoring												13/1	0/18											
Mo	nitoring Location												NSR.	7 (EP)											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S,											
Weather	Status												Su												
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<s(e) <s(<="" <s(e)="" td=""></s(e)>																					
Time of	Start	7:00	7:30																						
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)	70.6	71.8	71.4	71.6	72.8	73.3	73.4	72.7	72.9	73.5	74.8	74.6	75.6	75.4	75.8	76.2	75.1	74.3	74.6	73.5	73.6	72.7	72.3	71.1
	L90 dB(A)	64.1	63.8	64.5	64.7	65.2	65.9	66.0	65.7	65.2	66.3	66.7	67.0	67.2	66.9	66.5	68.9	67.5	66.6	67.7	67.1	66.9	65.5	65.3	64.8
Measured Noise	Leq dB(A)	68.7	69.9	69.2	69.4	70.8	71.1	71.6	70.9	70.4	71.7	72.0	72.6	73.4	73.3	73.7	74.0	73.2	72.4	72.1	71.7	71.3	70.4	70.8	69.4
Level (dB(A))	L10 (Average)			-			-						73	.8			-						-		
	L90 (Average)												66	.3											
	Leq (30 min)												71	.7											
Noise Li	mit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hui	man Activit	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/10/18
Checked by	Calvin Lui	Colfri	31/10/18





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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 Area

Da	ta of Monitoring												19/1	0/18											
Mo	nitoring Location												NSR1												
Descri	ption of the Location											Sir	Ellis Kadoo	ne Sec Sch	ool										
Sou	ind Level Method											Sound lev	el meter : A	WA5661 S	N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
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 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30																						
Monitoring	Finish	7:30	8:00														15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	
	L10 dB(A)	65.6	66.2	66.3	65.8	66.4	67.6	67.2	67.8	67.9	66.1	66.3	65.7	65.6	66.7	65.9	65.4	66.3	66.8	65.9	65.4	66.2	65.5	64.3	64.5
	L90 dB(A)	59.2	61.1	60.8	59.7	60.2	61.6	62.0	62.1	61.7	60.3	61.8	59.2	58.9	60.3	59.7	58.6	61.5	61.6	59.9	58.5	60.4	59.3	58.8	58.5
Measured Noise	Leq dB(A)	63.9	64.0	64.4	63.5	64.7	65.2	65.3	65.6	65.0	64.7	64.9	63.8	63.5	64.3	63.8	63.6	64.2	64.1	63.3	63.8	64.6	63.2	62.8	62.9
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												60	.4											
	Leq (30 min)												64	.2											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for se	hool / 65 d	B(A) during	examinati	on									
Site Co	onstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Calgar	31/10/18

Noise Monitoring Record Sheet

Contract No: SS D505

Da	ata of Monitoring												19/1	0/18											
	onitoring Location												NSR	-											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S, 100B S/N0											
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)																						
Time of	Start	7:00	7:30																						
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)	70.4	71.2	71.4	72.5	72.6	73.3	73.4	73.6	74.5	74.3	74.8	75.6	75.4	74.1	74.6	73.5	73.3	72.8	72.7	71.9	70.2	70.6	71.4	71.5
	L90 dB(A)	64.2	63.9	64.1	65.8	65.9	66.3	66.4	66.0	67.2	66.9	66.5	66.7	66.8	65.5	65.2	64.7	64.9	65.2	65.1	64.6	64.4	63.9	64.1	64.2
Measured Noise	Leq dB(A)	68.6	69.1	69.3	70.4	70.3	71.8	71.1	71.3	72.0	72.2	72.9	73.3	73.0	72.4	72.2	71.4	71.0	70.3	70.0	69.3	68.9	68.8	69.2	69.3
Level (dB(A))	L10 (Average)												73	.2											
	L90 (Average)												65	.5											
	Leq (30 min)												71	.0											
Noise Li	mit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Drilling & I	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Colfri	31/10/18





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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 Area

Da	ata of Monitoring												25/1	0/18											
Mo	onitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	ne Sec Sch	ool										
Sou	und Level Method											Sound lev	el meter : A	WA5661 S	N304042										
(Mo	del and Serial No.)											Ca	librator: NE	9 S/N5072	58										
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 13:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30																						
Monitoring	Finish	7:30	8:00															16:30	17:00	17:30	18:00	18:30	19:00		
	L10 dB(A)	64.1	64.8	65.2	65.7	66.3	66.2	66.4	66.9	67.2	66.3	66.7	65.6	65.9	65.1	66.3	66.4	66.0	66.7	65.8	65.2	65.3	65.4	64.8	64.2
	L90 dB(A)	57.5	57.4	58.1	58.0	59.5	60.2	60.6	61.1	62.0	61.4	60.7	59.0	59.2	58.8	60.7	61.3	61.1	60.9	59.7	59.2	58.9	58.4	57.3	57.4
Measured Noise	Leq dB(A)	62.6	62.9	63.5	63.9	64.4	64.1	64.8	64.7	65.0	64.2	64.1	63.5	63.7	63.9	64.0	64.6	64.1	64.3	63.5	63.1	63.8	63.0	62.9	62.7
Level (dB(A))	L10 (Average)			•									65	.8											
	L90 (Average)												59	.7											
	Leq (30 min)												63	.9											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	hool / 65 d	B(A) during	examinati	on									
Site Co	onstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	7	31/10/18
Checked by	Calvin Lui	Calgar	31/10/18

Noise Monitoring Record Sheet

Contract No: SS D505

Da	ta of Monitoring												25/1	0/18											
Mo	nitoring Location												NSR7	(EP)											_
Descri	ption of the Location												Fu Yun	House											_
Sound Level M	ethod (Model and Serial No.)												el meter : A librator: NE												
Weather	Status												Fii	ne											
Condition	Wind Strength (m/s)	<5(E)	S(E) <s(e) <s(e)="" <s(e<="" td=""></s(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)	71.6	70.4	70.9	71.4	71.5	72.6	72.4	73.5	73.7	74.6	74.3	74.1	73.6	73.5	72.4	72.8	73.9	73.4	74.1	74.4	73.2	72.8	72.7	71.0
	L90 dB(A)	64.0	63.5	63.1	64.2	64.5	65.6	65.8	66.3	66.7	67.2	67.8	67.3	66.9	66.1	65.8	65.4	66.2	66.7	66.5	66.3	65.7	65.5	64.6	64.2
Measured Noise	Leq dB(A)	69.1	68.6	68.7	69.3	69.4	70.2	70.7	71.6	71.3	72.5	72.1	72.0	71.4	71.3	70.7	70.5	71.1	71.9	72.4	72.2	71.0	70.9	70.1	69.2
Level (dB(A))	L10 (Average)												73	.0											
	L90 (Average)												65	.8											
	Leq (30 min)												70	.9											
Noise Li	mit Level, Leq, (dB(A))												75d	3(A)											
Site Co	onstruction Activities												Drilling & F	lammering											
Other Noise S	ources During Measurement											Hu	man Activiti	es and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/10/18
Checked by	Calvin Lui	Colfri	31/10/18





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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 Area

_																									
Da	ta of Monitoring													.0/18											
Mo	nitoring Location												NSR:	1 (EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	ool										
Sou	ınd Level Method											Sound lev	el meter : /	AWA5661 S	/N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsa	100B S/N0	39507										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)																						
Time of	Start	7:00	7:30																						
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)	64.6	64.8	65.2	65.1	66.3	66.7	65.9	65.2	66.1	66.0	66.7	67.3	66.9	65.1	65.7	65.3	65.5	66.4	66.1	66.0	65.3	64.6	64.0	64.1
	L90 dB(A)	56.5	56.8	57.1	57.2	59.1	60.3	59.4	58.5	61.1	60.9	61.2	62.3	60.7	58.8	59.3	57.7	57.9	61.4	60.6	60.2	59.1	58.0	57.2	56.3
Measured Noise	Leq dB(A)	62.4	62.7	63.3	63.4	64.0	64.1	63.5	63.7	64.4	64.6	64.9	65.0	64.1	63.2	63.8	63.2	63.9	64.2	64.6	64.1	63.5	62.8	62.4	62.6
Level (dB(A))	L10 (Average)												65	.7											
	L90 (Average)												59	1.4											
	Leq (30 min)												63	.7											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	dB(A) during	g examinati	on									
Site Co	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date			
Recorded by	Mary Yiu	7	31/10/18			
Checked by	Calvin Lui	Calgar	31/10/18			

Noise Monitoring Record Sheet

Contract No: SS D505

Da	ta of Monitoring		31/10/18																						
Mo	nitoring Location		NSR7 (EP)																						
Descri	ption of the Location	Fu Yun House																							
6		Sound level meter : AWA5661 5/N090078																							
Sound Level IVI	ethod (Model and Serial No.)	Calibrator: Pulsar 100B S/N039507																							
Weather	Status		Fine																						
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)	71.2	71.4	71.6	72.5	72.8	72.3	73.4	73.6	73.8	74.5	74.6	74.0	74.2	73.3	73.4	74.7	74.6	73.8	73.5	72.2	71.6	71.5	71.8	71.1
	L90 dB(A)	64.9	65.0	65.3	66.4	66.2	65.9	66.7	65.8	66.0	66.3	66.5	65.9	66.1	65.5	66.2	67.0	66.8	66.2	66.3	65.4	65.8	65.1	65.0	64.7
Measured Noise	Leg dB(A)	69.7	69.5	69.1	70.3	70.0	70.4	71.5	71.1	71.9	72.4	72.3	72.1	72.0	71.4	71.8	72.3	72.5	71.7	71.8	70.5	69.5	69.4	69.2	69.3
Level (dB(A))	L10 (Average)	73.1								•															
	L90 (Average)												65	.9											
	Leq (30 min)	71.1																							
Noise Li	mit Level, Leq, (dB(A))																								
Site Co	onstruction Activities	Drilling & Hammering																							
Other Noise So	ources During Measurement	Human Activities and Vehicle																							

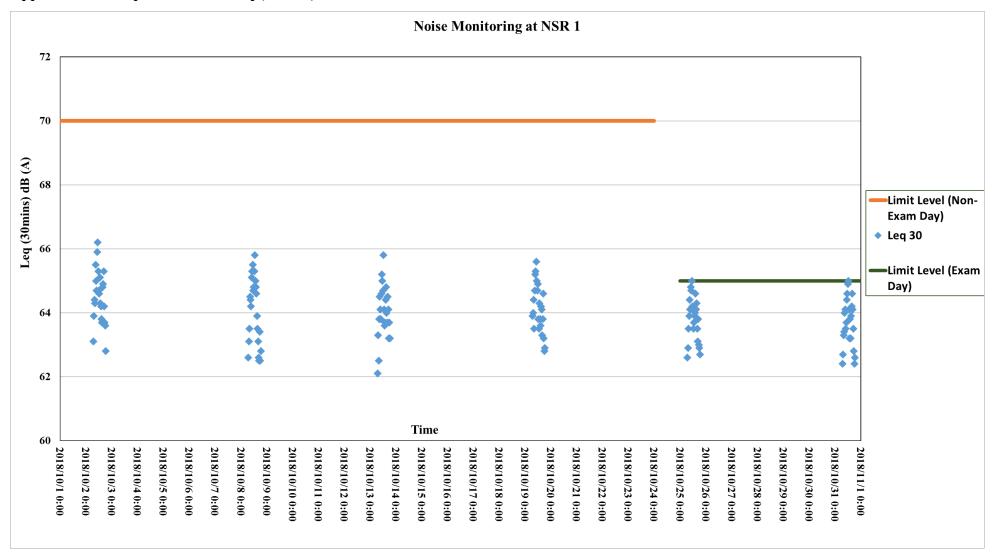
	Name	Signature	Date			
Recorded by	Mary Yiu	7	31/10/18			
Checked by	Calvin Lui	Colyn	31/10/18			





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Appendix F Graphical Plot of Leq (30 min)

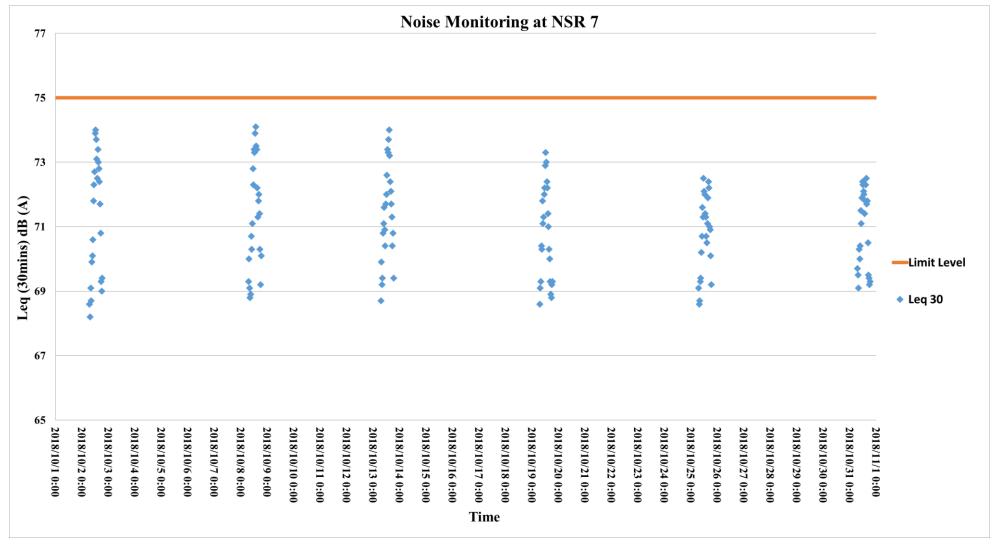


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Appendix G Monitoring Schedule

Impact Monitoring Schedule (October 2018) [i.e. Reporting Period]

						October 2018
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
7	8 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	9	10	11	12	13 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
14	15	16	17		19 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	20
21	22	23	24	25 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	26	27
28	29		31 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900			

Remarks: IN – Impact Noise Monitoring

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

NSR 7 - Fu Cheong Estate Fu Yun House





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Impact Monitoring Schedule for future three months [i.e. November, December 2018 and January 2019]

Impact Monitoring Schedule (November 2018)

						November 2018
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	7	8	9	10
11	I2 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	13	14	15		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)

NSR 7 - Fu Cheong Estate Fu Yun House



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Impact Monitoring Schedule (December 2018)

						December 2018
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	6	7	8
9	10	11 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	12	13	14	15
16	17 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	18	19	20	21	22 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
23	24	25	26	27	28 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)

NSR 7 - Fu Cheong Estate Fu Yun House



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Impact Monitoring Schedule (January 2019)

						January 2019
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	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	14	15 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	16	17	18	19
20	21 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	22	23	24	25	26 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
27	28	29	30	31		

Remarks: IN – Impact Noise Monitoring

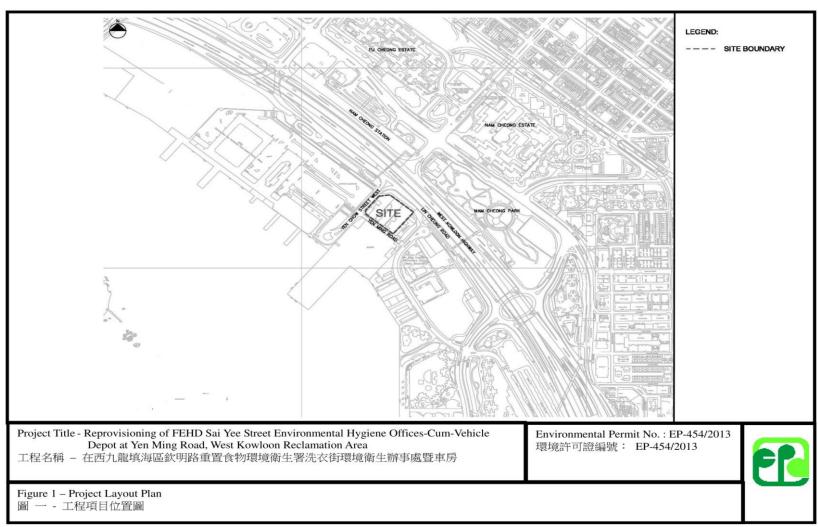
NSR 1 –Sir Ellis Kadoorie Secondary School (West Kowloon)

NSR 7 - Fu Cheong Estate Fu Yun House





Appendix H Project Layout

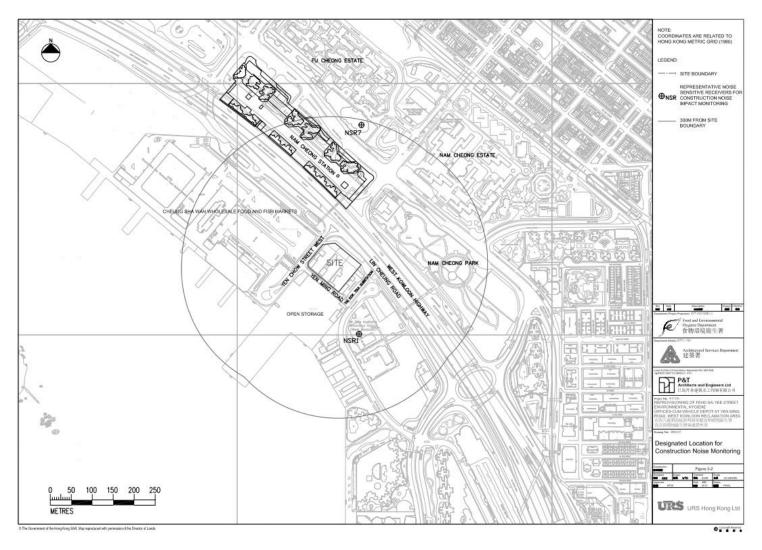




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Appendix I Location of the Impact Monitoring Locations







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 Yun 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		Cumulative 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 Construciton Waste Reduction**

Project: FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area

Record by: China Road and Bridge Corporation

Year of Record:

Monthly Waste Flow Table

DD.MM.YY	Total Quantity	Total Quantity		Actual Quantities of Inert C&D Materials Generated Monthly						Actu	ual Quantitie	s of C&D M	aterials Ge	enerated Mo	nthly		
	Generated Generated (Excluded Ex				LACAVATEG IVIATETIAIS						Metals	Metals	Paper /	Plastics	Chemical	Other, e.g.	
		Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Reused in the Contract /	Broken Concrete or Construction Waste Collected by Recycled	the	Reused in other Projects	Disposed in Public Fill	Disposed in Landfill	Disposed in Sorting Facilities	(steel bar / metal strip)	(aluminum can) ⁽¹⁾	cardboard packaging (1)	(1) & (4)	waste (wasted lubricant oil/oil container)	general refuse
					Other Projects)	Company										,	
	(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)
0.0.140	a1	a2	b	b	b	C	d	e	f	g	h	1 0.00	J	k	0.00	m	n oo4
3-Oct-18	90.60	3.94	86.66	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	3.94
5-Oct-18	8.18	8.18	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	8.18
6-Oct-18	10.10	10.10	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	10.10
8-Oct-18	36.76	7.59	29.17	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	7.59
9-Oct-18	59.64	10.75	48.89	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	10.75
10-Oct-18	46.05	11.73	34.32	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	11.73
11-Oct-18	19.17	15.21	3.96	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	15.21
12-Oct-18	21.15	6.70	14.45	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	6.70
13-Oct-18	50.49	12.93	37.56	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	12.93
15-Oct-18	13.29	13.29	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	13.29
16-Oct-18	20.18	12.35	7.83	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	12.35
18-Oct-18	79.12	20.17	58.95	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	20.17
19-Oct-18	155.23	14.31	140.92	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	14.31
20-Oct-18	9.17	9.17	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	9.17
22-Oct-18	6.12	6.12	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	6.12
23-Oct-18	10.40	10.40	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	10.40
24-Oct-18	116.04	11.29	104.75	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	11.29
25-Oct-18	12.87	12.87	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	12.87
26-Oct-18	12.97	12.97	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	12.97
27-Oct-18	11.45	11.45	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	11.45
29-Oct-18	2.70	2.70	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	2.70
30-Oct-18	10.35	4.20	6.15	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
31-Oct-18	104.85	13.73	91.12	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	13.73
Total	906.88	242.15	664.73	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	242.15

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

0.00 tonne

906.88 tonnes a1=b+c+d+e+f+g+h+i+j+k+l+m+n 242.15 tonne a2=c+d+e+f+g+h+i+j+k+l+m+n

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

(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 Construction Waste Reduction

Project: FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area

Record by: China Road and Bridge Corporation

Year of Record: 2018

Overall Summary Waste Flow Table

DD.MM.YY	Total Quantity	Total Quantity		F	Actual Qua	ntities of Inert C	&D Mater	ials Genera	ated Monthl	у		Actu	ual Quantitie	s of C&D M	aterials Ge	enerated Mo	nthly
	Generated	Generated (Excluded	Exca	avated Mater	ials		N	on-excavat	ed Materia	ls		Metals				Chemical	Other, e.g.
		Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other	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)	(aluminum can) ⁽¹⁾	cardboard packaging (1)	(1) & (4)	waste (wasted lubricant oil/oil container)	general refuse
					Projects)												
	(in '000kg) a1	(in '000kg) a2	(in '000kg)	(in '000kg) b	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg) m	(in '000kg)
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	4.80	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	4.00
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
Jan-17	765.30	17.90	747.40	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	17.90
Feb-17	5265.80	4.50	5261.30	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	4.50
Mar-17	6161.20	5.00	6156.20	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	5.00
Apr-17	2230.12	24.12	2206.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.92	0.00	0.00	0.00	0.00	11.20
May-17	1592.44	26.74	1565.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	21.80
Jun-17	949.60	39.20	910.40	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	39.20
Jul-17	1081.92	31.88	1050.04	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	31.88
Aug-17	52.82	52.82	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	52.82
Sep-17	90.88	85.47	5.41	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	85.47
Oct-17	202.80	55.98	146.82	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	55.98
Nov-17	76.74	76.74	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	76.74
Dec-17	201.74	81.31	120.43	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	81.31
Jan-18	286.71	74.17	212.54	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	74.17
Feb-18	96.60	72.29	24.31	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	72.29
Mar-18	254.50	132.29	122.21	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	132.29
Apr-18	163.58	123.87	39.71	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	123.87
May-18	382.01	257.18	124.83	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	257.18
Jun-18	393.51	229.20	164.31	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	229.20
Jul-18	398.20	255.05	143.15	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	255.05
Aug-18	1822.02	220.44	1601.58	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	220.44
Sep-18	781.30	170.83	610.47	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	170.83
Oct-18	906.88	242.15	664.73	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	242.15
Total	30319.17	2325.13	27329.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.16	0.00	0.00	0.00	0.00	2060.82

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

30319.17 tonnes 2325.13 tonne a1=b+c+d+e+f+g+h+i+j+k+l+m+n a2=c+d+e+f+g+h+i+j+k+l+m+n

22.16 tonne 0.95% %

a3=c+d+e+i+j+k+l 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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(首席環境保護主任 黄纙光代行)

		編號: AEP-454/201	13)
	•		
_			
- -			
-	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

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.
- 1.9 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 Part C 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.
- 2.2 An IEC shall be employed by the Permit Holder no later than one month before commencement of 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 Plumeria rubra (Red Frangipani) tree) Terminalia mantaly (Madagascar Almond) Cassia surattensis (Sunshine Tree) Grevillea robusta (Silky Oak)

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)						

^{*}Based on Tree Assessment Schedule in EIA Report Appendix 8-5

Notes:

註:

1. This Permit consists of three parts, namely, Part A (Main Permit), Part B (Description of Designated Project) and Part C (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内展示的原有許可證。
- A person who assumes the responsibility for the whole or a part of the designated project(s) may, before 4. 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 6. 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-
 - (i) 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,可感罰款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

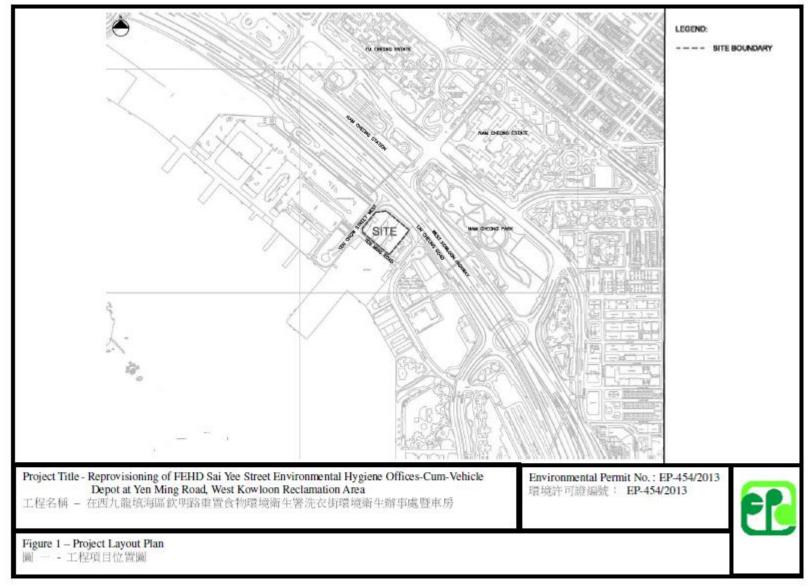
Figure 1 | Figure 2 | Figure 3

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

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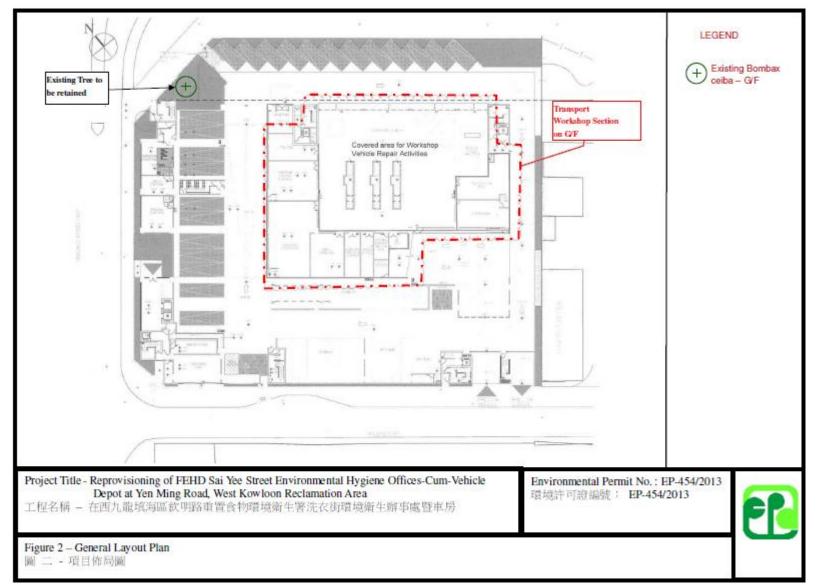






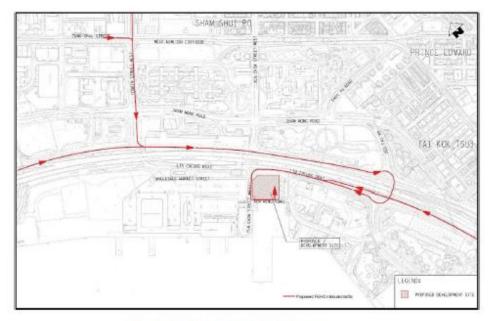
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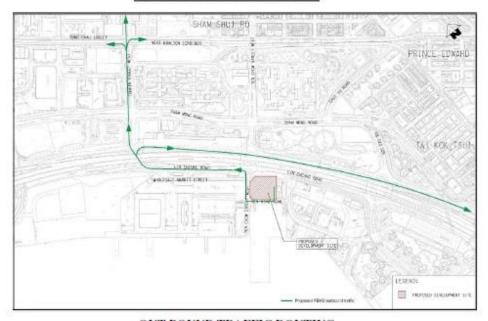


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IN-BOUND TRAFFIC ROUTING



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

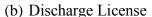
工程名稱 - 在西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車房

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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本署檔號 Our Ref:

w函檔號 EP482/269A/0017/I/164099

Your Ref. Tel. No.:

Tel. No.: 圖文傳真 Fax No.: 電子郵件 2756 8588

E-Mail: ቃ

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

Environmental Protection Department Environmental Compliance Division Regional Office (East)

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

PECEIVE 1 - 2 FEB 2200 環境保護署 環保法規管理科 區域辦事處(東) 香港九龍九龍灣臨樂街 十九號南豐商業中心五樓

CC KKFu/Telemix

вү:...

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 <u>11 December 2015</u>, I enclose herewith a licence granted under the WPCO.

The granting of the licence <u>does not</u> 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

Environmental Compliance Division for Director of Environmental Protection

BEC <u>Encl.</u>DAPER

The Original WPCO Licence

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掛號函件

先生/女士:

水污染管制條例 將軍澳 / 牛尾海 / 大鵬灣 / 東部緩衝區 / 維多利亞港 (第一 / 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> 之建築地盤排放污水

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 (CHAN Kin Ki) 日期

For the Authority 代行) 監督 (陳 健 基

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 Hygie Department Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot 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/ Commercial / Institutional* Trade Effluent			
排 放 種 類	工業/ 商業/機構 *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			

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。

外, 所有单位为人电池,		
Determinand 測量物	Limit 限度	
Flow Rate (m³/day)	20	
流量 (立方米 / 日) Suspended Solids	30	
懸浮固體	80	
Chemical Oxygen Demand 化學需氧量	6-9#	
pH (pH units) 酸鹼值(pH 單位)		

[#]Range 上下限

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

elf-	monitoring and Reporting	D-11 == 14-25 15-2
V	The Licensee shall perform	self-monitoring as and when required by the Authority.
Land	持 牌人須在監督要求時進行	自行監測。

TOTAL CONCERNATION OF THE PARTY				Daint(a) and	at his ow	n expense	carry out
The Licensee shall sample the analyses in accordance with	discharge at the sample	the Sa type	mpling and me	easurement	frequency	specified	for each
determinand named below:-				at the total Trial			

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。

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PART C 丙部 : STANDARD CONDITIONS 標準條件

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. 排放不得含有多氯糠苯、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 率。

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 equipment.
 - 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 Authority.
 - 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 $(Note \ b \ \& c)$.

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《MELDRI)。

- 3 -

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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:
 - (i) 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

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 操作手册

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。

EPD156

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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.
 - 品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置抽取樣本。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.

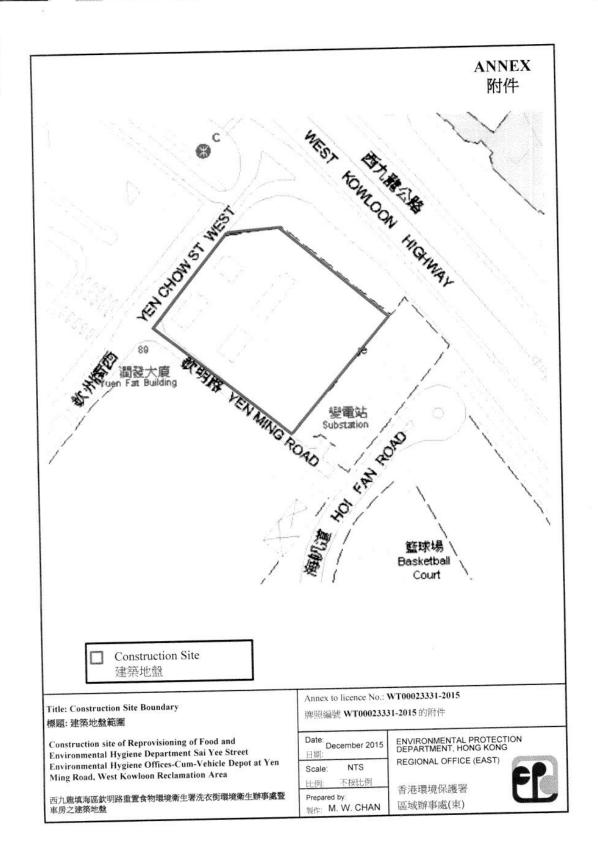
 根據本條例第 24 條的規定,監督可以書面通知,向本牌照施加新訂或經修訂的條款及條件,或取消本牌照。根據本條例第 25、26 及 27 條的規定,被更改或取消牌照的持牌人可能會獲得補償。
- (i) Under Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence. 根據本條例第 28 條的規定,持牌人可向監督申請更改本牌照。
- (j) Under Section 49 of the Ordinance, this licence shall not 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".

EPD156

- 5 -

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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

本習情號 Our Ref: 來函館號 Your Ref: 電 話 Tel. No.: 2117 7539 顯文傳真 Fax No.: 2756 8588 電子郵件

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, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong,

DECEIVED . De 1 de 201

BY:-----

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

NORTH POINT, HONG KONG

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

		Waste Disposal (Chemical 廢物處置(化學)	Waste)(General) Regulatio 發物)(一般)規例	on			
			Waste Producer				
		股物產生	者登記證				
To: Chemical Waste Producer	Full Name 全 名	(English) (英文) CHINA ROAL	AND BRIDGE CORPORATI	ON			
化學廢物產 生者	(Chinese) (中 文),	中國路橋工程有限責任公司	I.D. Card N 身份證號碼	77			
生有	商業登記證	2 號 博: (如有者)	058447-000-08-15-A				
Address for Correspondence 通 訊 地 址: FLAT 07-11, 23A/F., K.WAH CENTRE, 191 JAVA ROAD, NORTH POINT KONG							
	Tel. No. 電話:	2283 1688	Fax No.	2283 1689			
Producer un W P N 5 2 listed below	With reference to your application dated						
予廢物產生者		113-21619-C112131	2 1 8 號,予下開地點	站或處所: —			
Location or Premises where the waste is produced 產生廢物	or Premises where the waste is produced						
的地點或 或所 主 要 化 學 廢 物 種 類 :SURPLUS PAINT, SPENT LUBRICATION OIL							
	地址: ** ** ** ** ** ** ** ** ** ** ** ** *						
	THE THE PROPERTY OF THE PARTY O						
		ENVIAGO P. ST.	for Director	(CHAN Kin Ki) r of Environmental Protection 空署長 (陳健基 代行)			
ARNING . A	ny registered wa	Ste producer who fails to	Date 日期 Inform the Director of Enviro	15 1 2016			

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)

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



(d) Billing Account for Disposal of Construction Waste

本署借號 OUR REF.: 來函稽號 YOUR REF.: 電話 TEL. NO.: 2872 1769

TEL. NO.: 2872 1769 層文傳真 FAX NO.: 2591 0361 朝址 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 file可限

香港西環 堅尼地城 城多利組 88 號

ECEIVE 1 2 4 DEC 2015

Monday, 21 December, 2015

VIWIT.

WE WEEP D

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,

posal of Construction Waste Pagulation

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 AREA

The account number is <u>7024032</u>. 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 <u>not</u> used for paying any prescribed charge payable in respect of any other construction waste <u>not</u> 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

本署檔案

OUR REF: (4) in EP631/K03/RE434481-18

來函檔案 YOUR REF:

電話

TEL NO: 2150 8017

圖文傳真

FAX NO: 2402 8275

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

Environmental Protection Department Environmental Compliance Division Regional Office (East) 8/F., Cheung Sha Wan Government Offices 303 Cheung Sha Wan Road



環境保護署 環保法規管理科 區域辦事處(東) 九龍長沙灣道303號 長沙灣政府合署8樓

Registered Post

15 June 2018

To:

CHINA ROAD AND BRIDGE CORPORATION

Flat 07-11, 23A/F., K.Wah Centre, 191 Java Road, North Point,

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 08 June 2018, for the use of powered mechanical equipment for carrying out construction work at <u>Construction site at junction of Yen Chow Street West and Yen Ming Road</u>, West Kowloon Reclamation Area, Mong Kok, Kowloon.

The construction noise permit No. GW-RE0443-18 is enclosed.

You are advised to read the conditions of the permit carefully and to ensure compliance with these conditions. Any breaching of the conditions may lead to cancellation of the permit, subsequent prosecution action and the Authority's refusal to issue further permit for the above construction site.

Yours faithfully,

(WONG Mei Chi) for Authority

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



(4) in EP631/K03/RE434481-18

2150 8017

2402 8275

掛號函件

致:

香港 北角

渣華道 191 號

嘉華國際中心 23A 樓 07-11 室 中國路橋工程有限責任公司

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」

本監督在二零一八年六月八日接獲你擬於<u>九龍旺角西九龍填海區欽州街西與欽明</u> <u>路交界的建築地盤</u>,使用機動設備進行建築工程而提出的「建築噪音許可證」申請,現 根據《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 GW-RE0443-18 號建築噪音許可證」。

請細閱許可證各項條件,確保遵守。如有違反,本監督可撤銷許可證、提出檢控及拒絕再就上述地盤簽發任何「建築噪音許可證」。

監督

(王美枝



代行)

二零一八年六月十五日

CONSTRUCTION NOISE PERMIT NO. GW-RE0443-18

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



[reg.5(a)]

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

		Value order adaptions for						
		CONDITIONS						
	Construction site where the powered mech							
	Full address: Construction site at junction Kok, Kowloon	of Yen Chow Street West and Yen N	Ming Road, West I					
	The site boundary, that is, the boundary	-Cal		Lot No.:				
	construction work may be carried out is de							
	* PART/WHOLE of the site falls * WITHI	N/ OUTSIDE a designated area.						
	Powered Mechanical Equipment							
	a. Items of powered mechanical equipme	ent which may be used inside the site	boundary:					
	Identification code of item of	Description	on of item of					
	powered mechanical equipment (if applicable)		anical equipment		No. of units			
	Refer to attached sheet							
ŀ	b. Validity of the construction noise perm	it for the use of the powered mechani	cal equipment:					
	Date and time of commencement:	01 July 2018	at	0700 hours				
	Days and hours: 0000-2400 hours	on general holiday (including Sunday	y), 0000-0700 hou	rs and 1900-2400 h	ours on any day no			
	being a general holiday. [but note co	ondition 3.d.1. below for the operating	g hours within wh	nich the use of the a	bove listed powere			
	mechanical equipment is allowed]							
	This part of the permit expires on:	31 October 2018	at	2400 hours				
c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this conspermit is required to be kept on the construction site and made available for inspection by the Authority.								
	d. Other conditions imposed on the use of the powered mechanical equipment:							
	 d. Other conditions imposed on the use of 	Refer to attached sheet						
		******	- William					

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	Construction Worl	

0	Type of prescribes	construction work	which may be carried	out incide the cite	houndary :
a.	Type of prescribed	construction work	which may be carried	out inside the site	doundary .

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Nil
	,

	Days and hours: 0000-2400 hours on being a general holiday.	general normaly (mentaning state	ay), 0000 0700 no.	
	This part of the permit expires on:	31 October 2018	at	2400 hours
c.	Site layout plan(s), endorsed by the Auth of prescribed construction work describe made available for inspection by the Autl	d in this permit. The layout pla	ermit to indicate th n(s) is(are) require	e locations permitted for the carryin d to be kept on the construction sit
d.	Other conditions imposed on the carrying	g out of the prescribed construction	n work:	
	AND			A THE STATE OF THE
	111111111111111111111111111111111111111	111110		
	F- F	The second secon		
Thi	s construction noise permit or a copy there	of must be displayed on the cons	truction site at all v	rehicular site entrances/exits for pul
	s construction noise permit or a copy there formation.	of must be displayed on the cons	truction site at all v	vehicular site entrances/exits for pub
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* Delete as necessary

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EPD76B(s)



[第5(a)條]

表格3 噪音管制條例 (第400章)

第8(9)條

而使用機動設備及/或進行訂明建築工程

建築噪音許可證 為進行建築工程(撞擊式打樁除外)

建築噪	音許可證編號:GW-RE0443	5-18								
致:中	國路橋工程有限責任公司									
擊式打		條例》第8條的規定而發出的。現准予使用機動記 進行訂明建築工程,但須受以下條件規限。若不打 且會受到檢控。								
		條件								
1. 可	可使用機動設備及/或進行訂明建築工程的建築地盤:									
許	詳細地址:九龍旺角西九龍填海區欽州街西與欽明路交界的建築地盤。									
نته		地段編號:								
	也盤範圍(即可使用機動設備及 引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 3分。]則上,而該							
2. 該	地盤部分/全部*位於指定範圍	图之内/ <u>外</u> *。								
3. 機	動設備									
а.	在地盤範圍內可使用的各項	幾動設備 :								
	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							
		参見附頁。								
Ь.	可使用機動設備的建築噪音									
	生效日期及時間:	二零一八年七月一日 上午七時 括星期日)的凌晨零時至晚上十二時,公眾假日以								
		午七時至晚上十二時【但須注意條件3.d.1.4								
	用上列機動設備的時間】		3.000.7.121.00							
	此部分許可證屆滿日期及時									
с.	建築地盤須備有本建築噪音: 等照片須經監督認可。	日期 時間 許可證所述每件機動設備的照片各一幀,供監督隧	[時查看:該							
d.	d. 規限使用機動設備的其他條件:									
	參見附頁。									
EPD76B6	(s)	-1-								

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	2-	$\Box\Box$	7.6	44	-	10
4.	8.1	叨	猈	築	上	杆

a. 在地盤範圍內可進行的訂明建築工程:

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
	無

) .	可進行訂明建築工程的建築噪音許可證有	效期:	
		零一八年七月一日	上午七時
	日期及時間: 公眾假日(包括星期日)的		等,公本假日以外的任何一
	日凌晨零時至上午七時及下午七時至晚上	- 十一母。	
	此部分許可證屆滿日期及時間: 二二二	零一八年十月三十一日	晚上十二時
		日期	時間
	本許可證可夾附經監督認可的地盤圖則, 該地盤圖則領存放於建築地盤供監督隨時		進行訂明建築工程的地點。
	規限進行訂明建築工程的其他條件:		
延見。	事等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,給予公眾人士參
	NAME OF TAXABLE PARTY.		
m t	期:2018 年 06 月 15 日	1	
口 ៛	朔 · 20 18 中 00 万 13 日	ļ	馬丁
		/X: EE •	
		簽署:	監督
			(王美枝 代行)
去	不適用者		

5.

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Page 1 of 2

Sheet attached to Construction Noise Permit No. <u>GW-RE0443-18</u>

3.a. Items of powered mechanical equipment which may be used inside the site boundary:

Identification code of item of powered mechanical equipment (if applicable)		Description of item of powered mechanical equipment	No. of units
Group A	CNP 044	Concrete lorry mixer	One
	CNP 049	Crane, tower (electric)	One
		Generator, with Quality Powered Mechanical Equipment Label showing a Sound Power Level of $\leq 99dB(A)$	One
CNP 283		Water pump, submersible (electric)	Twenty
Group B		Poker, vibratory, hand-held (electric)	Two
	CNP 283	Water pump, submersible (electric)	Twenty
Group C	CNP 283	Water pump, submersible (electric)	Twenty

Signed:

(WONG Mei Chi for Authority

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共二頁,頁一

建築噪音許可證 編號 <u>GW-RE0443-18</u>的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

The second of th	備的識辨代碼 用的話)	各項機動設備的說明	數目
<u>A組</u>	CNP 044	混凝土攪拌車	壹
	CNP 049	起重機,塔型 (電動)	壹
		發電機,備有優質機動設備標籤顯示聲功率級≤99 分貝(A)	壹
	CNP 283	潛水泵 (電動)	貳拾
<u>B組</u>	 CNP 283	混凝土震動機,手提 (電動) 潛水泵 (電動)	貮 貳拾
<u>C組</u>	CNP 283	潛水泵 (電動)	貳拾

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Page 2 of 2

Sheet attached to Construction Noise Permit No. <u>GW-RE0443-18</u>

- 3.d. Other conditions imposed on the use of the powered mechanical equipment:
 - 1. The powered mechanical equipment listed in condition 3.a. shall only be operated during the hours shown below:

Group A to Group B	General holiday (including Sunday)	0700 – 2300 hours
Group A to Group B	Any day not being a general holiday	1900 – 2300 hours
Group C	Any day	2300 – 0700 hours on next day

2. Only one group of the powered mechanical equipment listed in condition 3.a. shall be allowed to operate at any time.

Signed

(WONG Mei Chi

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共二頁,頁二

建築噪音許可證 編號 <u>GW-RE0443-18</u>的附頁

- 3.d. 規限使用機動設備的其他條件:
 - 1. 祇可於以下時間內使用列在條件3.a.內的機動設備:

A 60 5 D 60	公眾假日(包括星期日)	上午七時至晚上十一時			
A組至B組	公眾假日以外的任何一日	下午七時至晚上十一時			
C組	任何一日	晚上十一時至翌日上午七時			

2. 在任何時間內,祇可使用列在條件3.a.內的其中一組機動設備。

馬丁

簽署:

監督

(王美枝 代行)

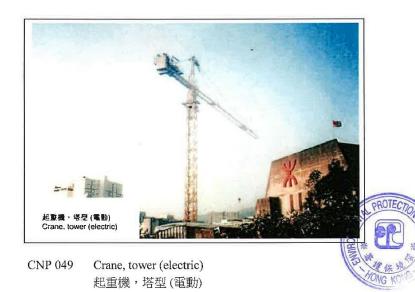
Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



Photograph attached to Construction Noise Permit No. <u>GW-RE0443-18</u> 建築噪音許可證編號<u>GW-RE0443-18</u>的照片



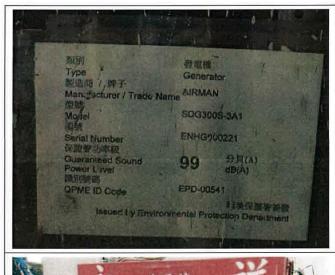
CNP 044 Concrete lorry mixer 混凝土攪拌車



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Photograph attached to Construction Noise Permit No. <u>GW-RE0443-18</u> 建築噪音許可證編號GW-RE0443-18的照片





Generator, with Quality Powered Mechanical Equipment Label showing the Sound Power Level of \leq 99 dB(A)

發電機,備有優質機動設備標籤顯示聲功率級≤99分貝(A)

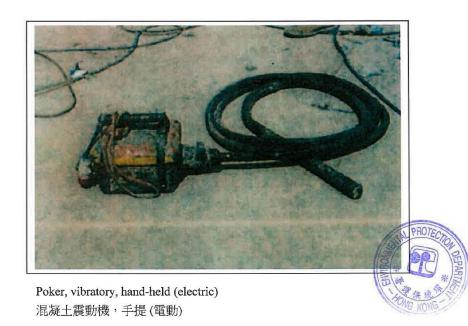
Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com



Photograph attached to Construction Noise Permit No. <u>GW-RE0443-18</u> 建築噪音許可證編號<u>GW-RE0443-18</u>的照片

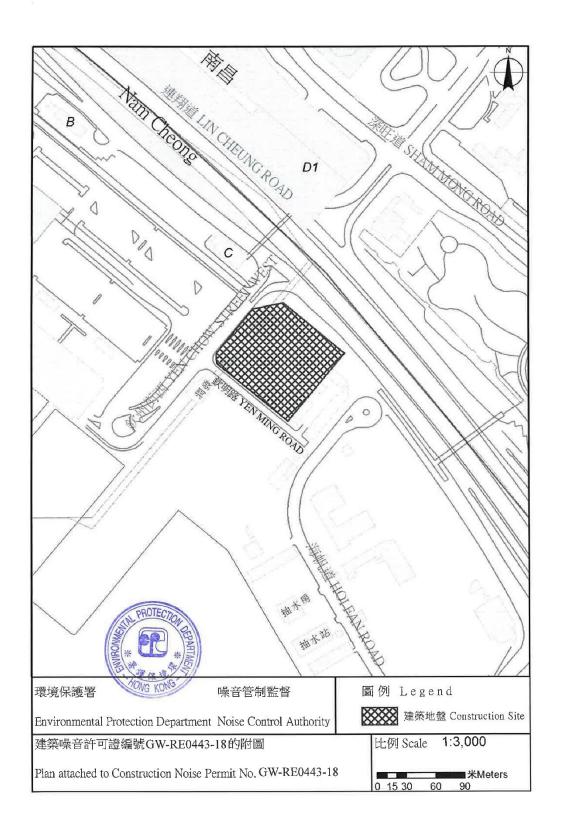


CNP 283 Water pump, submersible (electric) 潛水泵 (電動)



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Appendix N NSR 1 School Calendar 2018-19

Sir Ellis Kadoorie Secondary School (West Kowloon) School Calendar 2018-2019

	School Calendar 2018-2019									
Month	Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat		Holidays, Special Days & Examinations
2018		L.,						1	3	First Day of School Year
September	1	X	3	4	5	6	7	8	1	
(19 school days)	2	X	10	11	12	13	14	15	1	
	3	16	17	18	19	20	21	22	1	
	4	25	24	25	26	27	28	29	25	The Day following the Mid-Autumn Festival
		26								
	5		\nearrow	2	3	4	5	6	1	National Day
October	6	\langle	8	29	(10)	- 11	12	13	9, 10	Sports Day (Heats), 1st Staff Development Day
(20 school days)	7	14	15	16		18	19	20	17	Chung Yeung Festival
	8	21	22	23	24	25	26	27	23	Sports Day (Finals)
	9	28	29	30	31				25/10-1/11	1st Term Test
						Ш	2	- 3		
November	10	/	5	- 6	1	₹83	523	10	7, 8, 9	School Picnic, Festival of Diwali, Festival of Bhai Tika
(20 school day)	11	X	(12)	13	14	/3	/16.	17	15, 16	P6 Information Day, Parents' Night & AGM of PTA
	12	18	19	20	21	22	23	24	1	
	13	25	26	27	28	29	30		26-30	ESTP Challenge Camp for S2 & S3
								1		
December	14	1	3	4	/3\	6	A	8	5, 6, 7	Speech Day Final Rehearsal, Half-day School, Speech Day
(14 school days)	15	X	10	11	12	13	14	15	1	
	16	X	17	18	19	/20	21	22	20	Talent Show & Class Party
		25	24	25	26	27	28	29	21/12-1/1	Christmas and New Year Holidays (12 days)
		1	31						1	
2019	17				2	3	4	5	1	The First Day of January
January	18	X	(7)	(8)	0	(10)	(I)	12	7-21	Half-yearly Examination, Mock Examination for S6
(21 school days)	19	18	(4)	(15)	(a)	ČĎ.	ŰŠ	19	22	Post-examination Activities
	20	20	(21)	/22	23	(24)	25	26	24	2nd Staff Development Day
	21	21	28	29	30±	31			23, 25-29, 30	
							- 1	2	1-12	Lunar New Year Holidays (12 days)
February		1	4	-8-	-8-		8	9	1	, , , , , ,
(12 school days)	22	10	- 11	12	13	14	15	16	13	2nd Term Commences
	23	X	18	(197	20	21	/22	23	22	S6 Graduation Day and Parents' Day
	24	24	25	26	27	28			1	
							1	2		
March	25	18	4	5	6	7	8	9	1	
(22 school days)	26	10	- 11	12	13	14	/B\	/16\	15 & 16	Learning Celebrations and Open Days
	27	X	18	19	20	21	22	23	22-29	2nd Term Test
	28	24	[25]	26	[27]	28	29	30		
		X								
	29		1	2	3	4	7	6	5	Ching Ming Festival
April	30	7	8	9	(10°)	- 11	12	13	10, 12-22	Friday Timetable, Easter Holidays (11 days)
(14 school days)		14	15	16	17	18	19	20	1	
	31	21	20	23	24	25	26	27]	
	32	28	29	30					29, 30	S3 TSA Oral Examination
						2	3	4	1	Labour Day
May	33	18	- 6	7	8	9	10	11	1	
(20 school days)	34	X	15	14	15	16*	(17)	18	13, 16, 17	Birthday of the Buddha, Friday Timetable, 3rd Staff Development Day
	35	15	20	21	22	23	24	25]	
	36	26	27	28	29	30	31			
								1		
June	37	X	3	4	5	363	~	8	6, 7	Festival of Eid, Tuen Ng Festival
(18 school days)	38	1	(0)	(II)	(12)	(13)	(14)	15	10-25	Yearly Examination & S3 TSA Examination
	39	16	0	139	19	20)	@	22	26/6-2/7	Discussion of Examination Papers
	40	25	(24)	(23)	26	27	28	29		
		20							1/7	HKSAR Establishment Day
	41		/	2	<u>/3\</u>	/4	/3\	6		Post-examination Activities
July	42	/	/8\	/9\	/10,	ΛN	<u>/12</u>	13	9, 10	Release of SSPA Results, Release of HKDSE Results
(10 school days)	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	14	Z13\	16	17	18	19	20	11, 12	S.1 Registration
		21	22	23	24	25	26	27	15, 16	Last School Day, Pre-S.1 Attainment Test
		28	29	30	31	<u></u>		<u> </u>	16/7-31/8	Summer Vacation (47 days)
						1			_	
	0	•	ination I	Period	4.3		onary Ho	liday		Collaborative Lesson Preparation and Teachers' Sharing on
	Ä	Term				School 2			N001	Teaching Strategies (Students will leave school at 1:05 pm)
	$ \rightarrow $		al Day			Public E			No. of School	
		Staff.	Develops	nent Day	•	Special .	Timetable	ē	No. of School	l Holidays & Discretionary Holidays: 90 + 3



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Noise Impact Monitoring Results during Examination at Sir Ellis Kadoorie Secondary School (West Kowloon)

Date with both examination session and noise monitoring in the reporting period:

NSR 1	Sir Ellis Kadoorie Secondary School (West Kowloon)							
Date	Monitoring Period	Weather	Wind Speed	L _{eq}	L ₁₀ (30 min)	L90 (30 min)	Limit Level L _{eq} (30 min)	
	7:00-7:30		< 5 ms ⁻¹ 27.7°C	62.6	64.1	57.5	65.0	
	7:30-8:00			62.9	64.8	57.4	65.0	
	8:00-8:30			63.5	65.2	58.1	65.0	
	8:30-9:00			63.9	65.7	58.0	65.0	
	9:00-9:30			64.4	66.3	59.5	65.0	
	9:30-10:00			64.1	66.2	60.2	65.0	
	10:00-10:30			64.8	66.4	60.6	65.0	
	10:30-11:00			64.7	66.9	61.1	65.0	
	11-00:11:30	Fine		65.0	67.2	62.0	65.0	
	11:30-12:00			64.2	66.3	61.4	65.0	
25th O 4 1	12:00-12:30			64.1	66.7	60.7	65.0	
25 th October	12:30-13:00			63.5	65.6	59.0	65.0	
2018	13.00-13:30			63.7	65.9	59.2	65.0	
	13:30-14:00			63.9	65.1	58.8	65.0	
	14:00-14:30			64.0	66.3	60.7	65.0	
	14:30-15:00			64.6	66.4	61.3	65.0	
	15:00-15:30			64.1	66.0	61.1	65.0	
	15:30-16:00			64.3	66.7	60.9	65.0	
	16:00-16:30			63.5	65.8	59.7	65.0	
	16:30-17:00			63.1	65.2	59.2	65.0	
	17:00-17:30			63.8	65.3	58.9	65.0	
	17:30-18:00			63.0	65.4	58.4	65.0	
	18:00-18:30			62.9	64.8	57.3	65.0	
	18:30-19:00			62.7	64.2	57.4	65.0	
Overall $L_{(30 \text{ min})}$ 63.9 65.8 59.7 65.0								

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NSR 1	Sir Ellis Kadoorie Secondary School (West Kowloon)								
Date	Monitoring Period	Weather	Wind Speed	L _{eq} (30 min)	L ₁₀ (30 min)	L ₉₀ (30 min)	Limit Level L _{eq} (30 min)		
	7:00-7:30		< 5 ms ⁻¹ 27.2°C	62.4	64.6	56.5	65.0		
	7:30-8:00			62.7	64.8	56.8	65.0		
	8:00-8:30			63.3	65.2	57.1	65.0		
	8:30-9:00			63.4	65.1	57.2	65.0		
	9:00-9:30			64.0	66.3	59.1	65.0		
	9:30-10:00			64.1	66.7	60.3	65.0		
	10:00-10:30			63.5	65.9	59.4	65.0		
	10:30-11:00			63.7	65.2	58.5	65.0		
	11-00:11:30			64.4	66.1	61.1	65.0		
	11:30-12:00			64.6	66.0	60.9	65.0		
21st O-4-1	12:00-12:30	Fine		64.9	66.7	61.2	65.0		
31st October	12:30-13:00			65.0	67.3	62.3	65.0		
2018	13.00-13:30			64.1	66.9	60.7	65.0		
	13:30-14:00			63.2	65.1	58.8	65.0		
	14:00-14:30			63.8	65.7	59.3	65.0		
	14:30-15:00			63.2	65.3	57.7	65.0		
	15:00-15:30			63.9	65.5	57.9	65.0		
	15:30-16:00			64.2	66.4	61.4	65.0		
	16:00-16:30			64.6	66.1	60.6	65.0		
	16:30-17:00			64.1	66.0	60.2	65.0		
	17:00-17:30			63.5	65.3	59.1	65.0		
	17:30-18:00			62.8	64.6	58.0	65.0		
	18:00-18:30			62.4	64.0	57.2	65.0		
	18:30-19:00			62.6	64.1	56.3	65.0		
		65.7	59.4	65.0					