

Celemax Environmental and Energy Management Limited

Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, Shatin, N.T., Hong Kong Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com

Our Ref. : TEEM/TM334/17/044 Date : 16 May 2017

By Hand

Environmental Protection Department

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

Attn: Ms. Kwok Wing Chi, Winnie

Dear Madam,

Contract No. SS D505 Environmental Permit No. EP-454/2013 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area Submission of Environmental Impact Monitoring Report April 2017

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 April 2017 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 Mr. Jason Lau at (852) 3610 8713. Thank you.

Yours faithfully,

For and on behalf of **Telemax Environmental and Energy Management Limited**

Ir Eagle MO Managing Director

RX / DL/ EM / SC / JL / Encl.

cc. ArchSD – Mr. Sing-hin SAT, Saadullah / Mr. WAN Koon Piu, Dick (by hand) FEHD – Ms. May NG (by hand)
PTA – Ms. Clara PANG / Mr. Jess YEUNG (by email)
AEC – Ms. Grace KWOK / Mr. HO Tin Kit (by email)
CRBC – Mr. Vincent CHUNG / Mr. FU Kwok Kwan (by email)



Allied Environmental Consultants Limited

Acousticians & Environmental Engineers

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

Our Ref: 1330/17-0013

15 May 2017

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,

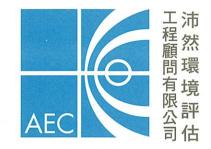
Contract No. SS D505 Environmental Permit No. EP-454/2013 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area Independent Environmental Checker for Construction Phase Condition 3.4 – Submission of Monthly EM&A Report for April 2017 (Issue 2)

Further to the receipt from Environmental Team (ET) of the captioned Monthly EM&A Report on 10th and 11th May 2017 via email, pursuant to Condition 3.4 of Environmental Permit, I hereby verify the captioned report (Issue 2).

Yours faithfully, For ALLIED ENVIRONMENTAL CONSULTANTS LIMITED

Grace Kwok Independent Environmental Checker GK/cwh

C.C.			
FEHD		Ms. May NG, ASO(P)4/ Mr. Vincent TAM, CTSO(Ops)2	Email
ArchS	D	Mr. Shing-hin SAT, Saadullah, SPM335 / Mr. WAN Koon Piu, Dick, PM342	Email
PTA		Ms. Clara PANG / Mr. Jess YEUNG	Email
TEEM	(ET Leader)	Mr. Jason LAU	Email
CRBC	(Main Contractor)	Mr. Vincent CHEUNG, Project Manager / Mr. KK FU, Site Agent	Email



By Email

Recycled Pape



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

Environmental Monitoring and Audit Report

Prepared by: Telemax Environmental and Energy Management Limited

Renali Prepared by: Dexter Lee /

TELEMAX

15 May 2017 Date

15 May 2017

Date

Verified by: _

INDEPENDENT ENVIRONMENTAL CHECKER

Grace Kwok

15 May 2017

Date

Telemax Environmental and Energy Management Limited



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Issue	Date	Prepared by	Checked by	Approved by	Remark
1	10 th May 2017	Dexter Lee (Consultant) / Rena Xu (Senior Consultant)	Jason Lau (Assistant Project Manager)	Eagle Mo (Managing Director)	
2	11 th May 2017	Dexter Lee (Consultant) / Rena Xu (Senior Consultant)	Jason Lau (Assistant Project Manager)	Eagle Mo (Managing Director)	Incorporated with AEC's comments

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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 fourteenth monthly EM&A report, which detailed the environmental monitoring and audit results recorded during the period from 1st April 2017 to 30th April 2017.

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.



- 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.



2.0 **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 on November 2013.
- 2.4 The subject site is located at Yen Ming Road, West Kowloon Reclamation Area given in *Appendix H*. The subject site is bounded to the north by Nam Cheong Station, to the east by CLP Tak Kok Tsui Substation, to the south by Yuen Fat Building, and to the west by Cheung Sha Wan Wholesales Fish and Food Markets. Sir Ellis Kadoorie Secondary School (West Kowloon) and Fu Cheong Estate Fu 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*.

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

Table 1 Contact Details of Key Personnel



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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:
 - Setting out of pile cap
 - Site clearance
 - Hacking concrete paving for soil excavation
 - Backfilling
 - Soil excavation
 - Sheet pile installation
 - Formwork erecting for pile caps
 - Pile cap open cut
 - Formwork removal
 - Welding for capping plate and U-bar
 - Steel fixing
 - Concreting work





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Environmental Status 3.0

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:

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

Table 2 Status of Licenses and Permits

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



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Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com 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 March 2017 submitted on 18th April 2017	
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.

Construction Works		Major Environmental Impact	Mitigation Measures
 Site Hacl pavi exca Bacl Soil Shee Soil Shee Form pile Pile Pile Form Weld plate Stee 	ing out of pile clearance king concrete ing for soil avation kfilling excavation et pile installation mwork erecting for caps cap open cut mwork removal ding for capping e and U-bar el fixing hereting work	Construction dust, construction noise and waste management	 Tarpaulin cover shall be provided to minimize potential for damage or contamination of construction materials; Watering and imperious sheeting was provided to dusty materials; Water spraying should be provide to haul road and excavation works; Well-maintained and quiet plants were used; Proper waste storage and sorting was applied; Trip record was maintained properly; and Noise barrier was implemented during piling activities; Cement sealing, cover walkway pavement and pump addition are implemented during rainy season.

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





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

Action and Limit Level

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

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

Table 5 Action and Limit Levels for Construction Noising Monitoring



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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of **Environmental Mitigation** 5.0 Implementation Status

Measures

- 5.1 During reporting month, major works undertaken and/or completed during the reporting month are listed as below:
 - Setting out of pile
 - Site clearance
 - Hacking concrete paving for soil excavation
 - Backfilling
 - Soil excavation
 - Sheet pile installation
 - Formwork erecting for pile caps
 - Pile cap open cut
 - Formwork removal
 - Welding for capping plate and U-bar
 - Steel fixing
 - Concreting work
- 5.2 The relevant parties have implemented mitigation measures which include, but not limited to the following:
 - Tarpaulin cover shall be provided to minimize potential for damage or contamination of construction materials;
 - Watering and imperious sheeting was provided to dusty materials;
 - Water spraying should be provide to haul road and excavation works;
 - Well-maintained and quiet plants were used;
 - Proper waste storage and sorting was applied;





Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com Trip record was maintained properly; and

- Noise barrier was implemented during piling activities; and
- Cement sealing, cover walkway pavement and pump addition are implemented during rainy season.
- 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*.

Date	Non-compliances /	Action taken by Contractor	Outcome
	Observations /		
	Reminders		
7th April 2017	Nil.	Nil.	Nil.
11 th April 2017	Nil.	Nil.	Nil.
18 th April 2017	Nil.	Nil.	Nil.
27 th April 2017	Nil.	Nil.	Nil.

Table 7 Summary of Site Inspections

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





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).
- 6.2 Monitoring of $L_{eq(30min)}$ should be 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} should be recorded at the specified intervals. The meter shall be mounted on a tripod at a height of 1.2m above ground with the microphone positioned at G/F adjacent the NSRs facing the works area.
- 6.3 Noise measurements shall not be made in the presence of fog, rain, and wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable anemometer capable of measuring the wind speed in m/s. Noise measurements shall be made when construction activities are underway.

Calibration and Maintenance

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



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

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

Table 8 Noise Monitoring Equipment

Monitoring Locations

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

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

Table 9 Representative Noise Sensitive Receivers Identified for Construction

*NSR = Noise Sensitive Receivers

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7.0 Monitoring Results

- 7.1 Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) and Fu Cheong Estate Fu Yun House (NSR7) on 1st, 7th, 13th, 19th, 25th and 28th April 2017.
- 7.2 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 record 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 peak levels. No exceedance was found during the examination session at NSR1 according to the monitoring results. The examination session are included in Appendix N. No exceedance was found during the reporting period and the MSR7 according to the monitoring results.

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NSR1		Sir	Ellis Kadoo	rie Second	lary School		
Date	Monitoring	Weather	Wind Speed	L10(30 min)	L90(30 min)	Leq(30 min)	Limit
Date	Time Period	Condition	(m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Level
01/04/17	07:00-19:00	Sunny	<5	66.2	56.2	64.2	70.0
(Non-E)	07.00-19.00	Sumy	?	00.2	50.2	04.2	70.0
07/04/17	07:00-19:00	Fine	<5	66.4	57.0	64.4	65.0
(Exam)	07.00-19.00	гше	2	00.4	57.0	04.4	05.0
13/04/17	07:00-19:00	Sunny	<5	66.4	56.7	64.4	70.0
(Non-E)	07:00-19:00	Sunny	?	00.4	30.7	04.4	70.0
19/04/17	07:00-19:00	Fine	<5	66.4	56.7	64.4	70.0
(Non-E)	07:00-19:00	Fille	<.)	00.4	30.7	04.4	70.0
25/04/17	07:00-19:00	Cloudy	<5	66.2	56.9	64.2	65.0
(Exam)	07.00-19.00	Cloudy	2	00.2	50.9	04.2	05.0
28/04/17	07:00-19:00	Sunny	<5	66.5	56.5	64.4	70.0
(Non-E)	07.00-19.00	Sumry	\sim	00.5	50.5	04.4	70.0
	Average Leq(3	30 min) for Exa	am		64.3		65.0
	Average Leq(3	0 min) for Nor	<i>п-Е</i>		64.4		70.0

Table 10 Noise Monitoring Results at NSR1

Remarks:

Unit in dB(A)

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

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

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

7th and 25th April 2017

Compliance achieved in the reporting period

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NSR7		F	Fu Cheong Es	state Fu Yı	ın House		
Date	Monitoring	Weather	Wind Speed	L10(30 min)	Laura	I can the	Limit
Date	Time Period	Condition	(m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Level
01/04/17	07:00-19:00	Sunny	<5	73.5	65.4	71.5	75.0
07/04/17	07:00-19:00	Fine	<5	72.9	65.3	71.0	75.0
13/04/17	07:00-19:00	Sunny	<5	73.1	65.2	71.0	75.0
19/04/17	07:00-19:00	Fine	<5	73.3	65.4	71.3	75.0
25/04/17	07:00-19:00	Cloudy	<5	72.9	65.7	71.0	75.0
28/04/17	07:00-19:00	Sunny	<5	73.1	65.1	71.0	75.0
	Average	Leq(30 min)			71.1		75.0

Table 11 Noise Monitoring Results at NSR7

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 level measure in a single 30-min period at was 62.7 L_{eq(30min)} and 65.0 L_{eq(30min)} respectively with an average of 64.3 dB(A) L_{eq(30min)}. For non-examination session at NSR1, the minimum and maximum noise level measure in a single 30-min period at was 63.2 L_{eq(30min)} and 65.3 L_{eq(30min)} respectively with an average of 64.4 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no 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 level measure in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) was 67.8 Leq(30min) and 72.8 Leq(30min) respectively with an average of 71.1 dB(A) L_{eq(30min)}. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no greater than 75.0 dB(A)).





- Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com 7.5 Sheet piling work was undertaken on-site and this was identified as the major
 - influencing factors affecting the monitoring results.

Non-compliance, Complaints, Notifications of Summons and 8.0

Status of Prosecutions

Record on Non-compliance of Action and Limit Levels

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

Record on Environmental Complaints Received

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

Record on Notifications of Summons and Successful Prosecution

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

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

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

Follow-up Actions Taken

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



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9.0 Forecast of Works Programme and Future Key Issues

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





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, 2206.00 tons of excavated C&D materials were disposed at public fills and 11.20 tons of general refuse was disposed at NENT landfill. 0 tones of plastics and 12.92 tons of metals were collected by recycling contractor in the reporting month. 0 tons of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0 tons of chemical waste was collected by licensed contractor in the reporting period. Monthly Waste Flow Table is given in *Appendix L*.
- 10.3 The Contractor was advised to maintain on site waste sorting and recording system and maximize reused / recycle of C&D wastes.

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11.0 Comments, Recommendations and Conclusions

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

Chemical waste and Waste Management

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

Water Quality Impact

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

Air Quality Impact

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

Construction Noise Impact

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





Landscape and Visual Impact

- Retained tree should be properly fenced off and the working area.
- 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-cumvehicle Depot, Yen Ming Road, West Kowloon Reclamation Area. The recommended mitigation measures in the EIA process and the EM&A programme were effective in protecting the environment. As such, the environmental performance during the construction phase was considered acceptable.
- Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) 11.4 and the Fu Cheong Estate Fu Yun House (NSR7) on 1st, 7th, 13th, 19th, 25th and 28th April 2017.
- 11.5 For examination session at Sir Ellis Kadoorie Secondary School (NSR1), the minimum and maximum noise level measure in a single 30-min period at was 62.7 L_{eq(30min)} and 65.0 L_{eq(30min)} respectively with an average of 64.3 dB(A) L_{eq(30min)}. For non-examination session at NSR1, the minimum and maximum noise level measure in a single 30-min period at was 63.2 L_{ea(30min)} and 65.3 L_{ea(30min)} respectively with an average of 64.4 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no greater than 65.0 dB(A) and 70.0 dB(A) for examination and non-examination session respectively).
- 11.6 The minimum and maximum noise level measure in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) was 67.8 L_{eq(30min)} and 72.8 L_{eq(30min)} respectively with an average of 71.1 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no greater than 75.0 dB(A)).
- 11.7 Sheet piling work was undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.
- 11.8 In the reporting period, no environmental complaint and no notifications of summons or successful prosecution were received.
- 11.9 Weekly construction phase site inspections and landscape and visual impact inspections





were conducted during the reporting month as required. The monitoring results and statistics of non-compliance indicated that the EIA process with its recommended mitigation and EM&A programme were effective for protection of the environment and there was no significantly unacceptable environmental impact posed by the Project.

- 11.10 In the reporting month, a total of 2206.00 tons of excavated C&D materials were disposed at public fills and 11.20 tons of general refuse was disposed at NENT landfill.0 tons of paper/cardboard packing, 0 tons of plastics and 12.92 tons of metals collected by 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 and internal finishing 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 facility, dust from construction works, waste water from surface runoff, drainage facilities and wheel washing facilities noise from operation equipment and machinery, tree protective measures shall be carried for tree retained.
- 11.12 The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from the construction works. The Contractor is also reminded to maintain good housekeeping at the site.



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Appendix A Master Programme





China Road and Bridge Corporation

Master Construction Programme (Rev.08)

ID Task Name	Duration	Start	Finish)tr 3, 2015 eptember E M	November January B E M B E M	Qtr 1, 2016 March B E M	May B E M	July B E M	Qtr 3, 2016 September B E M	November B E M	January	r 1, 2017 March E M B	May
1 Contract period	791 days	Wed 9/12/15	Tue 6/2/18					<u> </u>				
² Project commencement	1 day	Wed 9/12/15	Wed 9/12/15	9/12 9/12	I I	 						
Project completion Milectone Dates	1 day	Tue 6/2/18	Tue 6/2/18		1	1						
Milestone Dates Project commencement	791 days 1 day	Wed 9/12/15 Wed 9/12/15	Tue 6/2/18 Wed 9/12/15	9/12 9/12	1	 						
 ⁶ Submission / Application of Form WWO 046 (Part I & II) 	1 day	Mon 3/10/16	Mon 3/10/16		1	I I		\$ 3/10	 		l I	
7 Submission of Form WWO46 Part IV	1 day	Sat 14/10/17	Sat 14/10/17	I I I I I I I I I I I I I I I I I I I	I I	I I		T	 		l I	
8 Last Manhole Connection Completion	1 day	Tue 25/7/17	Tue 25/7/17		1	1					1	
9 Water Certificate Obtained	1 day	Fri 15/12/17	Fri 15/12/17		1	1					1	
10 Handover of Transformer Room & Switch Room to CLP	1 day	Sat 26/8/17	Sat 26/8/17			1					l I	
11 Power Energisation	1 day	Mon 20/11/17	Mon 20/11/17									
12 Lift certificate Obtained (Fireman's Lift)	1 day	Thu 30/11/17	Thu 30/11/17		i i							
13 Form 501 Submission 14 ESD inspection	1 day	Wed 13/12/17	Wed 13/12/17			1						
14 FSD inspection 15 F.S. Certificate Obtained	1 day 1 day	Wed 3/1/18 Tue 23/1/18	Wed 3/1/18 Tue 23/1/18									
16 Site Handover	1 day	Tue 6/2/18	Tue 6/2/18									
¹⁷ Critical Path Summary	791 days	Wed 9/12/15	Tue 6/2/18	-								
18 Project commencement	0 days	Wed 9/12/15	Wed 9/12/15	♦ 9/12								
¹⁹ Hoarding installation	113 days	Thu 10/12/15	Thu 31/3/16	10/12	31/3	 			 			
20 H-pile (305x305x180) - total 399nos	127 days	Fri 1/4/16	Fri 5/8/16	 	1/4		5/8		 			
²¹ As-built record submission and selection of loading test	14 days	Sat 6/8/16	Fri 19/8/16	 	I I	1 I	6/8 19/8		 		l I	
22 Loading test (70% completed)	38 days	Sat 20/8/16	Mon 26/9/16	 	1	1	20/8	26/9				
23 Construction of Pile cap with sheetpile (80% Completed)	164 days	Tue 27/9/16	Thu 9/3/17			1		27/9 📩	· · · ·	9/3		
24 Backfilling works (50% Completed)	20 days	Fri 10/3/17	Wed 29/3/17		i i					10/3	29/3	
25 R.C. Frame (G/F ~ R/F) 26 External Wall Preparation Works for Curtain Wall Installation	142 days	Thu 30/3/17	Fri 18/8/17		1					50/3	1	
 External Wall Preparation Works for Curtain Wall Installation Curtain Wall Frame Installation (50% Completed) 	23 days 58 days	Sat 19/8/17 Mon 11/9/17	Sun 10/9/17 Tue 7/11/17									
 ²⁸ Curtain Wall Glazing work 	28 days	Wed 8/11/17	Tue 5/12/17									
 ²⁹ Removal of scaffoldings 	21 days	Wed 6/12/17	Tue 26/12/17								1	
30 EVA Construction and paving	7 days	Wed 27/12/17	Tue 2/1/18	I I I I	1	1					i i	
31 FSD inspection and Issuance of FS Certificate	21 days	Wed 3/1/18	Tue 23/1/18		1						I I	
32 SCCU Inspection	12 days	Wed 24/1/18	Sun 4/2/18	 	I I	I I	 		 			
33 General cleaning	2 days	Mon 5/2/18	Tue 6/2/18	 	I I	I I	 		 			
34 Preparation works	365 days	Thu 10/12/15	Thu 8/12/16		1				—		l I	
35 Mobilization	7 days	Thu 10/12/15	Wed 16/12/15	10/12 16/12	27/2	I I			 		I I	
Condition survey and U/G utility survey Setting up site office (1) Drawing submission and approval	80 days	Thu 10/12/15	Sat 27/2/16	10/12	2//2	1						
37 Setting up site office (1) Drawing submission and approval 38 Setting up site office (2) Material fabrication and construction	60 days 60 days	Thu 10/12/15 Mon 8/2/16	Sun 7/2/16 Thu 7/4/16	8/2	7/4	1					1	
 ³⁹ Temporary electricity and water 	218 days	Thu 10/12/15	Thu 14/7/16	10/12	1		14/7					
40 Setting out of site area	45 days	Thu 10/12/15	Sat 23/1/16	10/12 23/1		1						
41 Hoarding (1) installation	113 days	Thu 10/12/15	Thu 31/3/16	10/12	31/3							
42 Hoarding (2) painting and lighting	60 days	Fri 1/4/16	Mon 30/5/16		1/4	30/5						
43 Removal of existing trees	60 days	Thu 10/12/15	Sun 7/2/16	10/12 7/2								
44 Hoarding enhancement work	45 days	Tue 25/10/16	Thu 8/12/16					25/10	8/12			
45 Piling work	438 days	Wed 9/12/15	Sat 18/2/17								I I	
46 Design Submission	78 days	Wed 9/12/15	Wed 24/2/16	9/12 4/1		1 1	 		 			
47 Preparation and submit piling design 48 Review of piling design by SCI1	27 days	Wed 9/12/15	Mon 4/1/16	9/12 4/1 5/1 3/2	l l	I I	 		 			
Review of piling design by SCU Coordination with MTRC and Method statement for MTRC Approv	21 days 21 days	Tue 5/1/16 Thu 4/2/16	Wed 3/2/16 Wed 24/2/16	4/2	24/2	I I			 		l I	
 ⁵⁰ Noise permit application 	45 days	Mon 14/12/15	Wed 27/1/16	14/12 27/1	1	1			 		I I	
⁵¹ Material testing	141 days	Mon 28/12/15	Mon 16/5/16		1							
⁵² H-Pile Delivery (Batch 1 to 4)	15 days	Mon 28/12/15	Mon 11/1/16	28/12 11/1								
53 H-Pile Delivery (Batch 5)	1 day	Tue 12/4/16	Tue 12/4/16		12/4 12/4	1						
54 H-Pile Delivery (Batch 6)	1 day	Wed 13/4/16	Wed 13/4/16		13/4 13/4							
55 Delivery of Splicing Steel Plate (1st Batch)	1 day	Sun 21/2/16	Sun 21/2/16	21/2 🗗								
56 Delivery of Splicing Steel Plate (2nd Batch)	1 day	Mon 9/5/16	Mon 9/5/16			9/5 7 9/5						
57 Material Testing for H-pile (Batch 1)	7 days	Tue 10/5/16	Mon 16/5/16		1 Contraction of the second se	0/5 16/5			 		I I	
58 Material Testing for H-pile (Batch 2, 3 & 4 & Batch 1 16mmthk, ste		Thu 28/1/16	Thu 11/2/16	28/1 28/1 11/2		4/5			 			
 Material Testing for H-pile (Batch 5, 6 & Batch 2, 16mm thk steel) Completion of monitoring check points, noise barrier and baseline n 		Fri 22/4/16	Wed 4/5/16	8/2	8/3	 			 		l I	
		Mon 8/2/16 Thu 10/3/16	Tue 8/3/16 Tue 21/6/16	0/2	0,5						1	
61 Installation of trial pile (2 hammers) 62 Trial pile driving (21 nos.)	104 days 71 days	Thu 10/3/16	Thu 19/5/16		10/3	19/5						

Summary

Remarks:

Project: SSD505 - Master Construction Date: Thu 16/3/17 Task

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

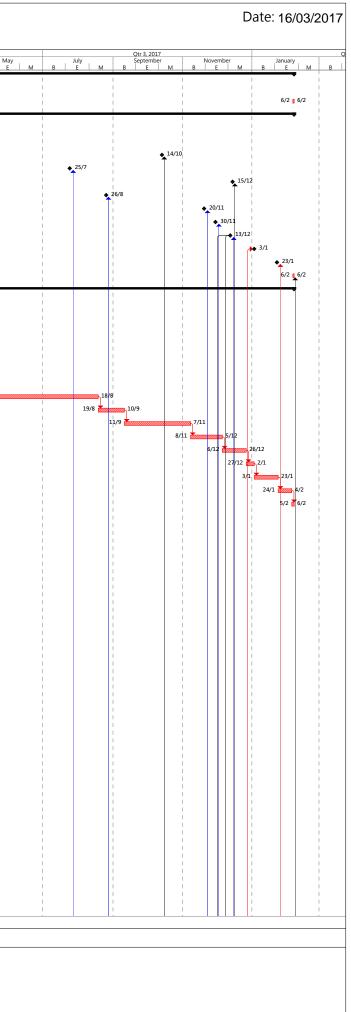
Critical Path

Progress

- Milestone 🔶

Chinese New Year site close

Page 1



China Road	and Bridge	Corporation
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Master Construction Pro (Pov 09)

hina Road and Bridge Corporation		Rer	nrovisio	Master Construction Programme (Rev.08) ing of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)	Date: 16/03/20
D Task Name	Duration	Start		2015 Or 1 2016 Or 3 2016 Or 1 2017 Or 3 2017	
54 Final set table preparation	1 day	Tue 01/5/17	Tue 01/F/1/	2015 Otr 1 2016 Otr 3 2016 Otr 3 2016 Otr 3 2016 Otr 3 2017 Otr 3 2017 e M B E M <th>January M B E M</th>	January M B E M
 Final set table preparation Approval of Hiley Formula Data and Final Set Table 	1 day 21 days	Tue 31/5/16 Wed 1/6/16	Tue 31/5/16 Tue 21/6/16	1/6 22/6	
⁶ Installation of working pile	324 days	Fri 1/4/16	Sat 18/2/17		
7 Pile driving	127 days	Fri 1/4/16	Fri 5/8/16		
⁸ H-pile (305x305x180) - total 399nos	127 days	Fri 1/4/16	Fri 5/8/16	1/4	
⁹ H-pile (305x305x223) - total 87nos	48 days	Sat 21/5/16	Thu 7/7/16	21/5	
 Final set 	39 days	Wed 22/6/16	Sat 30/7/16	22/6 30/7	
PDA test	60 days	Wed 22/6/16	Sat 20/8/16	22/6 20/8	
As-built record submission and selection of loading test	14 days	Sat 6/8/16	Fri 19/8/16	6/8 to 19/8	
³ Loading test (including set up)*	38 days	Sat 20/8/16	Mon 26/9/16	20/8 26/9	
⁷⁴ Loading Test for FD3-P11	4 days	Tue 6/12/16	Fri 9/12/16	6/12 👩 9/12	
75 Loading Test for FC7-P4	4 days	Tue 13/12/16	Fri 16/12/16	13/12 📷 16/12	
 Re-drive / PDA test and CAPWAP analysis for FA7-P1, FA7-P2, FA7-P3 	4 days	Tue 25/10/16	Fri 28/10/16	25/10 22/10	
Re-drive / PDA test and CAPWAP analysis for FA7-P1, FA7-P2, FA7-P3 (2nd time)	3 days	Wed 2/11/16	Fri 4/11/16	2/11 4.44	
78 Proof Drilling Work for FA7	7 days	Thu 17/11/16	Wed 23/11/16	17/11 22/11	
79 Remedial work for FA7	54 days	Thu 24/11/16	Mon 16/1/17	24/11	
Remedial work for FA7 (Revised Design)	33 days	Tue 17/1/17	Sat 18/2/17	17/1	
Tower crane	527 days	Tue 26/4/16	Wed 4/10/17		
³² Submission of tower crane proposal	32 days	Tue 26/4/16	Fri 27/5/16	26/4 27/5	
R3 Comments on tower crane proposal	1 day	Tue 9/8/16	Tue 9/8/16	9/8 2/2	
³⁴ Setting up of tower crane	87 days	Mon 14/11/16	Wed 8/2/17		
⁸⁵ ELS for TC1, TC2	40 days	Mon 14/11/16	Fri 23/12/16	14/11 23/12	
86 Setting up of tower crane TC1 & TC2	30 days	Tue 10/1/17	Wed 8/2/17	10/1 8/2	
87 Dismantle of tower crane	14 days	Thu 21/9/17	Wed 4/10/17	21/9 21/9 21/9	
88 Pile caps	399 days	Thu 10/3/16	Wed 12/4/17		
89 Design of pile cap submission and PTS approval	40 days	Thu 10/3/16	Mon 18/4/16	10/3 18/4	
90 Design of pile cap - Review and approval by SCU	32 days	Fri 13/5/16	Mon 13/6/16	13/5 13/6	
91 ELS design submission and approval	86 days	Wed 6/4/16	Thu 30/6/16	6/4 30/6	
92 Construction of pile caps (ELS in Two Stage)	190 days	Tue 27/9/16	Tue 4/4/17		
93 Construction of Pile cap with sheetpile(G.L. 1-9/A-K)	164 days	Tue 27/9/16	Thu 9/3/17	27/9	
94 Construction of Pile cap with sheetpile(G.L. 6-9/A-C)	30 days	Thu 2/3/17	Fri 31/3/17	2/3 31/3	
95 Construction of pile cap with open cut method	60 days	Sat 4/2/17	Tue 4/4/17	4/2	
96 Backfilling works (G.L. 1-5/A-K)	20 days	Fri 10/3/17	Wed 29/3/17	10/3 29/3	
97 Backfilling works (G.L. 6-9/A-K)	28 days	Thu 16/3/17	Wed 12/4/17	16/3 2020 12/4	
98 Construction of Pile cap FA7 (including backfill)	28 days	Thu 2/3/17	Wed 29/3/17	2/3 29/3	
99 Superstructure	355 days	Sat 1/10/16	Wed 20/9/17		
100 R.C. Frame	145 days	Thu 30/3/17	Mon 21/8/17		
101 Pile cap to G/F	31 days	Thu 30/3/17	Sat 29/4/17		
102 A1 (G.L.1-5/A-K)	16 days	Thu 30/3/17	Fri 14/4/17	30/3 14/4	
103 A2 (G.L.5-9/ A-K)	16 days	Fri 14/4/17	Sat 29/4/17	14/4 29/4	
104 G/F	27 days	Fri 28/4/17	Wed 24/5/17		
105 A1 (G.L.1-5/A-K)	14 days	Fri 28/4/17	Thu 11/5/17		
106 A2 (G.L.5-9/ A-K)	14 days	Thu 11/5/17	Wed 24/5/17	11/5 24/5	
107 UG/F & Water Tanks	19 days	Tue 23/5/17	Sat 10/6/17		
108 A1 (G.L.1-5/A-K)	10 days	Tue 23/5/17	Thu 1/6/17		
109 A2 (G.L.5-9/ A-K) 110 1/F	10 days	Thu 1/6/17	Sat 10/6/17		
	19 days	Fri 9/6/17	Tue 27/6/17		
	10 days	Fri 9/6/17	Sun 18/6/17		
	10 days	Sun 18/6/17	Tue 27/6/17		
	15 days	Mon 26/6/17	Mon 10/7/17	26/5 26/7	
	8 days	Mon 26/6/17	Mon 3/7/17	2010 2010 37 3/7 <mark>→</mark> 10/7	
	8 days	Mon 3/7/17	Mon 10/7/17		
	16 days	Sun 9/7/17	Mon 24/7/17 Mon 17/7/17	9/7 200 17/7	
III7 A1 (G.L.1-5/A-K) II8 A2 (G.L.5-9/ A-K)	9 days	Sun 9/7/17 Mon 17/7/17	Mon 1////1/ Mon 24/7/17		
119 AZ (G.L.5-9/ A-K) 119 4/F	8 days				
119 4/F 120 A1 (G.L.1-5/A-K)	13 days	Sun 23/7/17	Fri 4/8/17 Sat 29/7/17		
	7 days	Sun 23/7/17	Sat 29/7/17 Fri 4/8/17		
121 A2 (G.L.5-9/ A-K) 122 R/F	7 days	Sat 29/7/17			
122 R/F 123 A1 (G.L.1-5/A-K)	16 days	Thu 3/8/17 Thu 3/8/17	Fri 18/8/17 Thu 10/8/17		
124 A2 (G.L.5-9/ A-K)	8 days	Fri 11/8/17	Fri 18/8/17		
AZ (G.L.3-9/ A-K) 125 UR/F	8 days 9 days		Mon 21/8/17		
126 UR/F 126 Late cast portions		Sun 13/8/17 Tue 22/8/17	Wed 20/9/17		
	30 days	1 UC 22/0/17	weu 20/9/17		
oject: SSD505 - Master Construction te: Thu 16/3/17 Task Exception Critical Path Exception Progress	Mil	ilestone 🔶	Summary		
Remarks:				Page 2	
*Delay in selection of pile for loading test subject to EC	DT claim				
7-13 Feb 2016 and 27 Jan- 2 Feb 2017					
hinese New Year site close					

China Road and Bridge Corporation	

Master Construction Programme (Rev.08)

ID Task Name	Duration	Start	Finish	tr 3, 2015 eptember	November	lanuary.	Qtr 1, 2016 March B F		May		luby	Qtr 3, 20 Septem	16 Der	November	Japuan/	Qtr 1, 2017 March	
127 Material and Shopdrawing submissions for mock up items	180 days	Sat 1/10/16	Wed 29/3/17	E M	B E M	January B E M	B E	M B	May E M	В	July E M	B E 1/10	M	November B E M	January B E N		<u>M B</u>
¹²⁸ Sample of finished work	92 days	Mon 3/7/17	Mon 2/10/17				1					l I		 			
129 Lavatory	67 days	Mon 3/7/17	Thu 7/9/17				I I	1		1		1					1
130 Confirmation of Setting Out	7 days	Mon 3/7/17	Sun 9/7/17				I I	1				1	1	1			1
131 Flooring screeding	7 days	Mon 10/7/17	Sun 16/7/17				l I	1		i i		1					i i
132 Wall and Floor Tiles	10 days	Mon 17/7/17	Wed 26/7/17				i i	i		Ì		i i					i
133 BS Installation	10 days	Thu 27/7/17	Sat 5/8/17				1										
134 Ceiling Installation	3 days	Sun 6/8/17	Tue 8/8/17				1					1					
135 Install Sanitary Fitting	3 days	Wed 9/8/17	Fri 11/8/17				1			1		l I					I
136 General Cleaning and Approval of Mock Up	30 days	Wed 9/8/17	Thu 7/9/17				1	1				l I		 			
137 Locker 138 Confirmation of Shon Drawing and Colour selection	71 days	Mon 3/7/17	Mon 11/9/17				1	1		1		1					I
	30 days	Mon 3/7/17	Tue 1/8/17				1	1		1		1		1			
	34 days	Wed 2/8/17	Mon 4/9/17				1	1		i I		1					I I
140 Installation 141 General Cleaning and Approval of Mock Up	7 days	Tue 5/9/17 Wed 9/8/17	Mon 11/9/17 Thu 7/9/17				1										
142 Changing & Shower Room	30 days 67 days	Mon 3/7/17	Thu 7/9/17									1					
143 Confirmation of Setting Out	7 days	Mon 3/7/17	Sun 9/7/17				l I			l I		l I		1			
144 Flooring screeding	7 days	Mon 10/7/17	Sun 16/7/17		 		1			l I		1		l I			
 Wall and Floor Tiles 	10 days	Mon 17/7/17	Wed 26/7/17		 		l I	1		1				1			1
146 BS Installation	10 days	Thu 27/7/17	Sat 5/8/17		· · · · · · · · · · · · · · · · · · ·		1	1		(1
147 Ceiling Installation	3 days	Sun 6/8/17	Tue 8/8/17					1		i.				1			
148 Install Sanitary Fitting	3 days	Wed 9/8/17	Fri 11/8/17														
149 General Cleaning and Approval of Mock Up	30 days	Wed 9/8/17	Thu 7/9/17				1					1	1				I
150 Corridor	67 days	Mon 3/7/17	Thu 7/9/17				1					1		 			
151 Confirmation of Setting Out	7 days	Mon 3/7/17	Sun 9/7/17				1	1		1		1					1
152 Flooring screeding	7 days	Mon 10/7/17	Sun 16/7/17				1	1		1		1		1			1
153 Wall and Floor Tiles	10 days	Mon 17/7/17	Wed 26/7/17				1	i i		Ì		1					i
154 BS Installation	10 days	Thu 27/7/17	Sat 5/8/17														
155 Ceiling Installation	3 days	Sun 6/8/17	Tue 8/8/17				1	1		l l		1	1	1			
156 General Cleaning and Approval of Mock Up	30 days	Wed 9/8/17	Thu 7/9/17				1	1				l I					I
157 G/F Entrance lobby 158 Confirmation of Setting Out	67 days	Mon 3/7/17	Thu 7/9/17				1			1		1					
	7 days	Mon 3/7/17	Sun 9/7/17				1	1				1	1	1			1
159 Flooring screeding 160 Wall and Floor Tiles	7 days	Mon 10/7/17	Sun 16/7/17				1	i		Ì		1					i
161 BS Installation	10 days 10 days	Mon 17/7/17 Thu 27/7/17	Wed 26/7/17 Sat 5/8/17														
162 Ceiling Installation	3 days	Sun 6/8/17	Tue 8/8/17									1					
 General Cleaning and Approval of Mock Up 	30 days	Wed 9/8/17	Thu 7/9/17				1					1					
¹⁶⁴ Grasscrete (G/F External parking area)	64 days	Mon 31/7/17	Mon 2/10/17				l I					1		 			
¹⁶⁵ Surface preparation	28 days	Mon 31/7/17	Sun 27/8/17				1			1							1
166 Lay sub-base and sand	12 days	Mon 28/8/17	Fri 8/9/17				l I	1				1	1	1			1
167 Lay grasscrete block	12 days	Sat 9/9/17	Wed 20/9/17				1	1		i.							i i
168 Soil and seed	12 days	Thu 21/9/17	Mon 2/10/17														- Li
169 Recycled plastic	64 days	Sun 23/7/17	Sun 24/9/17				1			l.				I I			
170 External cladding & louvre feature	56 days	Mon 31/7/17	Sun 24/9/17				1			ļ				1			
171 Setting out works	7 days	Mon 31/7/17	Sun 6/8/17		 		I I			l I		1		1			
172 Installation of GMS frame	28 days	Mon 7/8/17	Sun 3/9/17		 		1	1		l I		1		l I			1
173 Fixing of recycle plastic 174 Occurrent Machine	21 days	Mon 4/9/17	Sun 24/9/17		 		l I			l l		1		1			
174 Green wall feature 175 Setting out works	56 days	Mon 31/7/17	Sun 24/9/17				1	1		1							
175 Setting out works 176 Installation of GMS frame	7 days	Mon 31/7/17 Mon 7/8/17	Sun 6/8/17 Sun 3/9/17				l I			i I				1			
177 Fixing of recycle plastic	28 days 21 days	Mon 4/9/17	Sun 3/9/17 Sun 24/9/17							į.		1					
177 Fixing of recycle plastic 178 Parapet wall feature	60 days	Sun 23/7/17	Sun 24/9/17 Wed 20/9/17				1			ļ				I I			
179 Setting out works	7 days	Sun 23/7/17	Sat 29/7/17		 		I I			l I		l I		1			1
180 Installation of GMS frame	28 days	Sun 20/7/17	Sat 26/8/17		 		1			l I		1		l I			
181 Fixing of recycle plastic	21 days	Sun 27/8/17	Sat 16/9/17				I.	1		l I				l. I			
 Major Material Submission and Approval (details refer to submission schedule) 	151 days	Tue 15/11/16	Fri 14/4/17		· · · · · · · · · · · · · · · · · · ·		1	1		(-			•
183 Solid concrete block	120 days	Mon 21/11/16	Mon 20/3/17							į.		1		21/11		20/3	
184 Liquid membrane waterproofing	120 days	Tue 15/11/16	Tue 14/3/17				1			ļ			1	5/11		14/8	
185 Cementitious waterproofing coating	120 days	Tue 15/11/16	Tue 14/3/17				I.					1	1	5/11		14/3	
186 Floor Tiles	60 days	Fri 20/1/17	Mon 20/3/17		 		1			l I		1		l I	20/1	20/3	
187 Wall Tiles	60 days	Thu 12/1/17	Sun 12/3/17				I I	1		l I				1/2,	/1	12/3	
188 Timber flush doors (general and fire-rated)	30 days	Wed 15/3/17	Thu 13/4/17				1	1		1		1	l				13/4
189 Plastic laminate panel (wood grain pattern)	90 days	Thu 22/12/16	Tue 21/3/17											22/12		21/3	

Project: SSD505 - Master Cons Date: Thu 16/3/17 Milestone

Summary

Remarks:

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

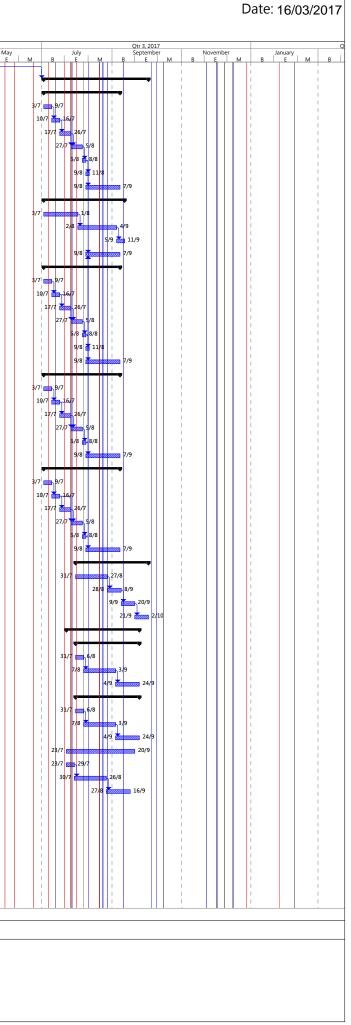
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Progres

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Task

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China Road and Bridge Corporation

Master Construction Programme (Rev.08)

ID Task Name	Duration	Start	Finish	tr 3, 2015 eptember	November	January B F M	Qtr 1, 2016 March B E M	May B E M	July B E M	Qtr 3, 2016 September	November	Qtr 1, 20 January March	17	May
190 Acoustic timber wall panel system	90 days	Sat 31/12/16	Thu 30/3/17	<u>е</u> м 7	B E M	B E M	B E M	B E M	B E M	B E M	B E M 31/12	B E M B E 30	/3 B	E
191 Recycle wood panel, 3mm thk	30 days	Tue 21/2/17	Wed 22/3/17	7								21/2 22/3		
¹⁹² Folding partitions	60 days	Wed 25/1/17	Sat 25/3/17	7								25/1 25/3		
Furniture, cupboards, shelving, etc.	30 days	Wed 15/3/17	Thu 13/4/17	7	l I	1		1	l I	1	l I	15/3	13/4	
194 Ironmongeries	100 days	Sun 11/12/16	Mon 20/3/17	7	l I	l I		1	1	1	11/12	20/3		
195 Toilet cubicle partitions	90 days	Wed 21/12/16	Mon 20/3/17	7	1	T.				1	21/12	20/3		
196 Ceiling System	46 days	Tue 28/2/17	Fri 14/4/17	7						1		28/2	14/4	
Locker system	90 days	Wed 21/12/16	Mon 20/3/17		1						21/12	20/3		
198 External recycle plastic features	45 days	Tue 28/2/17	Thu 13/4/17		l I	1	1	1	l l	1	l	28/2	13/4	
199 Recycle plastic trellis (Type 1)	45 days	Tue 28/2/17	Thu 13/4/17		l I	I I		1	l I	1	1	28/2	13/4	
200 Recycle wood plastic composite with aluminium core section wall cladding 201 Vinvl floor tile	45 days	Tue 28/2/17	Thu 13/4/17	_	l I	1	1	1	l I	1		28/2	13/4	
	80 days	Tue 3/1/17	Thu 23/3/17	_						1	3/	23/3		
202 Carpet tile	60 days	Fri 20/1/17	Mon 20/3/17	_		1						0/1 10/3		
203 External and internal paint	60 days	Tue 10/1/17	Fri 10/3/17	_	1	1	1	1		1	 	ψ/1 10/3		
204 Shop drawing Submission and Approval (details refer to submission schedule) 205 Glazinn doors	320 days	Fri 23/9/16	Tue 8/8/17	_	1	I.						15/3	13/4	
	30 days	Wed 15/3/17	Thu 13/4/17		1	1	1	1		1	1	15/3	13/4	2/5
·······	60 days	Wed 15/3/17	Sat 13/5/17			1				1		15/3	13/	1/5 8/5
	60 days	Wed 15/3/17	Sat 13/5/17	_						23/9	11/11		! 17	,5
208 BMU System 209 Suspensed Ceiling and Fire Resisting Enclosure System	50 days	Fri 23/9/16 Wed 15/3/17	Fri 11/11/16 Fri 28/4/17	_	1	l I		1	l I	25/5		15/3	28/4	
210 Fall Arrest System	45 days 30 days	Wed 15/3/17 Wed 15/3/17	Thu 13/4/17	_	1	I.				1	1	15/3	13/4	
211 Acoustic Timber Wall Panel System	45 days	Wed 15/3/17 Wed 15/3/17	Fri 28/4/17		1	T.		1		1	1	15/3	28/4	
 Acoustic Operable Wall System 	30 days	Wed 15/3/17	Thu 13/4/17	_					i.	1	1	15/3	13/4	
213 Timber Door	45 days	Wed 15/3/17 Wed 15/3/17	Fri 28/4/17									15/3	28/4	
²¹⁴ Timber Cabinet	45 days	Sun 12/3/17	Tue 25/4/17	_	1	T.		1	l I	1	1	12/3	25/4	
²¹⁵ Roller Shutters and Fire Shutters	30 days	Mon 6/2/17	Tue 7/3/17	_	1	I I			1	1	1	6/2 7/β		
216 Metal railing system	30 days	Sun 19/3/17	Mon 17/4/17	_	1	T T		1		1	1	19/3	17/4	
217 Waterproofing System	30 days	Wed 15/3/17	Thu 13/4/17	_		1				1		15/3	13/4	
²¹⁸ Toilet and Shower Cubicle Partition Systems	41 days	Sun 19/3/17	Fri 28/4/17	_		1						19/3	28/4	
219 Changing Room Lockers System	30 days	Sun 19/3/17	Mon 17/4/17	_	1	l I			l I	1	1	19/3	17/4	
²²⁰ Signage	40 days	Fri 30/6/17	Tue 8/8/17		1	1				1	1			
221 Internal Finishing Works	166 days	Sun 23/7/17	Thu 4/1/18	8	1	T		1		1	1			
Partition Wall and Door Sub-frame Installation (after completion of 3/F)	90 days	Tue 25/7/17	Sun 22/10/17	7		1				i de la companya de la compa				
223 Window and Louver	110 days	Sun 23/7/17	Thu 9/11/17	7										
224 Internal Waterproofing works	90 days	Sun 13/8/17	Fri 10/11/17	7	1	1	1	1	l I	1	1			
225 Plastering, Tiling & Laying Floor Screed	100 days	Sun 20/8/17	Mon 27/11/17	7	1	I.				1	1			
226 Carpentry & Joinery/ Ironmongery and Door Installation	90 days	Sun 3/9/17	Fri 1/12/17	7	1	1				1	1			
227 Carpentry & Joinery/ Ironmongery and Door Installation (Rooms with curtain wall will commence after glass panel installation, mainly 3/F, 4/F office)	28 days	Sun 24/9/17	Sat 21/10/17	7	I I I	 	 	 	 	 	 	I I I I I I I I I		
²²⁸ False Ceiling	106 days	Mon 28/8/17	Mon 11/12/17	7	1	T.		1		1	1			
229 Flooring Finishes	80 days	Sun 15/10/17	Tue 2/1/18	В	l I	I.		1	l I	l I	l I			
230 Painting	70 days	Fri 27/10/17	Thu 4/1/18		l I	1			1	1	l I			
231 Internal painting	70 days	Fri 27/10/17	Thu 4/1/18		l.				1	1	1			
232 G/F	28 days	Fri 27/10/17	Thu 23/11/17		1						1			
233 UG/F	21 days	Thu 9/11/17	Wed 29/11/17		l I	T T		1	l I	1	l I			
234 1/F	21 days	Wed 15/11/17	Tue 5/12/17	_	l I	T. T		1		I I	l I			
235 2/F	21 days	Tue 21/11/17	Mon 11/12/17	_	l I			1	1	1	l I			
236 3/F 237 4/F	21 days	Mon 27/11/17	Sun 17/12/17	_	l.	1		1			l.			
	21 days	Sun 3/12/17	Sat 23/12/17		1	1					1			
	21 days	Sat 9/12/17	Fri 29/12/17		l I	T T		1	l I	1	l I			
	21 days	Fri 15/12/17	Thu 4/1/18		l I			1	l I	l I	l I			
	23 days	Sat 19/8/17	Sun 10/9/17		1	I.		1			1			
	45 days	Mon 11/9/17	Wed 25/10/17	_	1	- 			i.	1	1			
	30 days	Thu 26/10/17	Fri 24/11/17	_	1						l			
243 Roofing works 244 Waterproofing Application	98 days	Tue 15/8/17	Mon 20/11/17	_	l I			l l	l I	1	l I			
	60 days	Tue 15/8/17	Fri 13/10/17	_	l I	1	1	1		1	l I			
245 Waterproofing Testing 246 Roof tiling	21 days 30 days	Sun 1/10/17 Sun 22/10/17	Sat 21/10/17 Mon 20/11/17		l.				1	1	1			
 247 Sanitary fittings installation 	450 days	Thu 1/9/16	Fri 24/11/17		1				1					
248 Drawing Submission and Approval (details refer to submission schedule)	100 days	Thu 1/9/16	Fri 9/12/16		l I				1/9		9/12			
249 G/F ~ 1/F	14 days	Sat 14/10/17	Fri 27/10/17	_	l I	T.		1		1	1			
250 2/F ~ 4/F	21 days	Sat 14/10/17	Fri 17/11/17	_	1	1	1	1		1	1			
251 R/F ~ UR/F	7 days	Sat 18/11/17	Fri 24/11/17	_	l.	1					l.			
	, uays	SactorIIII	2-11 17 13	1	1	1	1	1	1					

Project: SSD505 - Master Construction Date: Thu 16/3/17 Milestone

Summary

Remarks:

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

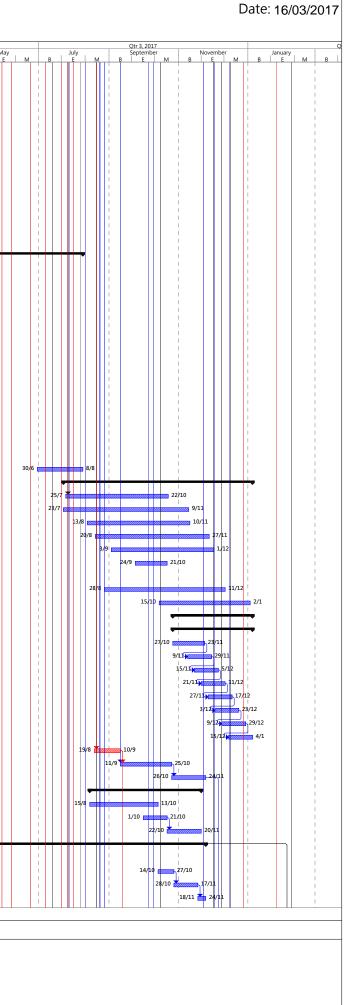
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Progress

Chinese New Year site close

Task

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China Road and Bridge Corporation

Master Construction Programme (Rev.08)

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10	Fask Name	Duration	Start	Finish	eptember	November	lanuary	Qtr 1, 2016 March B E	1	May	luly	Otr 3, 2016 September B F M	November	lanuary	Qtr 1, Mar	1, 2017 arch	
252	Submission of Aluminium window/ louvre & Curtain Wall	331 days	Mon 23/1/17	Tue 19/12/17	E M	B E M	January B E N	B E	мв	May E M	July B E M	B E M	November B E M	January B E M		E M B	Ma 3 E
53	Submission	76 days	Mon 23/1/17	Sat 8/4/17		1						l l	T T				
254	CW1 ~CW6 Shop Drg. & Calculation (re-submission)	1 day	Mon 23/1/17	Mon 23/1/17		1			I I			l l	T T	23/1 23/1			
255	Review & Approval by P&T	28 days	Tue 24/1/17	Mon 20/2/17		1		I I				l l	T T	1	20/2		
56	Visual & Control Mock-up Drg. (CW3)	1 day	Tue 14/2/17	Tue 14/2/17		l I						l I	I I	14/2 14			
57	Review & Approval by P&T	14 days	Wed 15/2/17	Tue 28/2/17		1							1		28/2		
58	Performance Test Drg. (CW1) and Test Proposal	1 day	Mon 20/2/17	Mon 20/2/17				i i	i i	i I				20/2		-	
59 60	Review & Approval by P&T	28 days	Tue 21/2/17	Mon 20/3/17				i.	i				1	21/2		/3	
60	Glass Sample	1 day	Thu 16/2/17	Thu 16/2/17				i.					1	16/2 1 17/2 1			
62	Window Hardware	1 day	Fri 17/2/17	Fri 17/2/17										17/2			
263	Glass & Hardware Review & Approval by P&T PVDF Color Guide	28 days 1 day	Fri 17/2/17 Wed 15/2/17	Thu 16/3/17 Wed 15/2/17		1		1				1	1	15/2 11	5/2		
64	Review & Color Selected by P&T	28 days	Thu 16/2/17	Wed 15/2/17 Wed 15/3/17		1						l l	l I	16/2	15/3		
65	PVDF color sample	10 days	Thu 16/3/17	Sat 25/3/17		1		I I				l l	I I		16/3 25	25/3	
266	Color Review & Approval by P&T	14 days	Sun 26/3/17	Sat 8/4/17		1		1					1 T		26/3 🍆	8/4	
67	Visual Mock-up (CW3 - on site)	78 days	Tue 21/2/17	Tue 9/5/17		I I							T. T.	-	┫┿╾╾┥┥┿╼		
268	Ordering, Die Making & Extrusion of Aluminium material	45 days	Tue 21/2/17	Thu 6/4/17					i i					21/2	*	6/4	
269	PVDF coating	5 days	Fri 7/4/17	Tue 11/4/17		1							1		7/	7/4 🍒 11/4	
270	Ordering and Fabrication of GMS bracket/frame	14 days	Wed 22/3/17	Tue 4/4/17				i.					1		22/3		
271	Fabrication of Aluminium Frames	16 days	Wed 12/4/17	Thu 27/4/17		I I		I I	1			1	I I	1	1.	12/4 27/4	
272	Glass Production	30 days	Fri 7/4/17	Sat 6/5/17		1			I			l l	l I		1 1 7//	6/	/5
273	Erection of Temproary Steel frame	14 days	Wed 5/4/17	Tue 18/4/17		l I		I.				1	l I		5/4	/4 18/4	
274	Erection of Aluminium Frames	8 days	Fri 28/4/17	Fri 5/5/17		1				1			T T			28/4 5/	
275 276	Glazing Works	3 days	Sat 6/5/17	Mon 8/5/17		1				1			1			6/5 🙇 8 9/5 💦	
276	Inspection & Approval of Mock-up	1 day	Tue 9/5/17	Tue 9/5/17		1		i.	i	1			1	-	i i	9/3	<i>*</i>
278	Performance Test Mock-up (CW1 - HK Laboratory) Ordering, Die Making & Extrusion of Aluminium material	45 days	Tue 21/2/17 Tue 21/2/17	Thu 13/7/17 Thu 6/4/17									1	21/2		6/4	
.79	PVDF coating	7 days	Wed 10/5/17	Tue 16/5/17											i i	10/5	16/5
80	Ordering and Fabrication of GMS bracket/frame	16 days	Wed 10/5/17	Thu 25/5/17		1		1				1	1				2! 5 7
81	Fabrication of Aluminium Frames	25 days	Wed 17/5/17	Sat 10/6/17		1						1	I I			17/5	5
282	Glass Production	35 days	Wed 24/5/17	Tue 27/6/17		1		1				l l	l I			2	24/5
83	Erection of Temproary Steel frame	14 days	Fri 26/5/17	Thu 8/6/17		1		1				1	l l				26/5 📩
84	Erection of Aluminium Frames	21 days	Sun 11/6/17	Sat 1/7/17		1				1			1				11
85	Glazing Works	7 days	Sun 2/7/17	Sat 8/7/17		1				1			1				
86	Pre-testing	3 days	Sun 9/7/17	Tue 11/7/17				i.					1				
287	Official Preformance Test	2 days	Wed 12/7/17	Thu 13/7/17									1				
288	D. Control Mock-up (CW3 - on site)	198 days	Tue 21/2/17	Wed 6/9/17										21/2		11/4	
289 290	Ordering, Die Making & Extrusion of Aluminium material	50 days	Tue 21/2/17	Tue 11/4/17		I I		I I	1			1	I I	21/2	1 1	11/4	
291	PVDF coating Ordering and Fabrication of GMS bracket/frame	7 days	Fri 14/7/17 Fri 14/7/17	Thu 20/7/17 Sat 29/7/17		1		I I				l l	I I	l			
292	Fabrication of Aluminium Frames	16 days 28 days	Fri 21/7/17	Thu 17/8/17		1						l l	T T				
293	Glass Production	35 days	Fri 28/7/17	Thu 17/8/17 Thu 31/8/17		1		1	1	1		1	l L	1		1	
294	Erection of Steel frame	7 days	Sun 30/7/17	Sat 5/8/17		1		I I				1	1				
295	Erection of Aluminium Frames	16 days	Fri 18/8/17	Sat 2/9/17		1							T.	1		l i	
296	Glazing Works	4 days	Fri 1/9/17	Mon 4/9/17				i I									
297	Inspection & Approval of Mock-up	2 days	Tue 5/9/17	Wed 6/9/17									1				
298	E. Permanent Works	302 days	Tue 21/2/17	Tue 19/12/17										•			++
299	Ordering & Die Making	60 days	Tue 21/2/17	Fri 21/4/17										21/2		21/4	
800	Extrusion of Aluminium material	10 days	Fri 14/7/17	Sun 23/7/17		l I		1	I I			l l	I.	1			
01	PVDF coating	7 days	Mon 24/7/17	Sun 30/7/17		l I						1	l I				
302	Ordering and Fabrication of GMS bracket/frame	28 days	Fri 14/7/17	Thu 10/8/17		1		I I					T T			i i	
03	Ordering & Production of Window hardware	45 days	Fri 14/7/17	Sun 27/8/17		l I		1	1				T.	1		l i	
04	Fabrication of Aluminium Frames	60 days	Mon 31/7/17	Thu 28/9/17				i.								1	
05	Glass Production Inspection of Heat soak test	60 days	Sun 13/8/17 Thu 12/10/17	Wed 11/10/17 Wed 18/10/17									- 				
07	Delivery & Erection of Steel frame	7 days 30 days	Fri 11/8/17	Sat 9/9/17					I I	1			I I				
08	Delivery & Hositing of Aluminium Frames	18 days	Fri 15/9/17	Mon 2/10/17		l l		l I	I I			l l	T. T				
09	Erection of Aluminium Frames (East & South Elevation)	58 days	Mon 11/9/17	Tue 7/11/17		1		1		1		1	T T			1	
10	Erection of Aluminium Frames (West & North Elevation)	30 days	Sat 21/10/17	Sun 19/11/17		T T		I I	1			1	T T	1		i i	
811	Delivery & Hositing of Glass panels	14 days	Thu 19/10/17	Wed 1/11/17				i i									
									1								
312	Glazing works	28 days	Wed 8/11/17	Tue 5/12/17													
	Glazing works Field watertighness test	28 days 7 days	Wed 8/11/17 Wed 6/12/17	Tue 5/12/17 Tue 12/12/17													

Summary

Milestone 🔶

Project: SSD505 - Master Constr Date: Thu 16/3/17 Remarks:

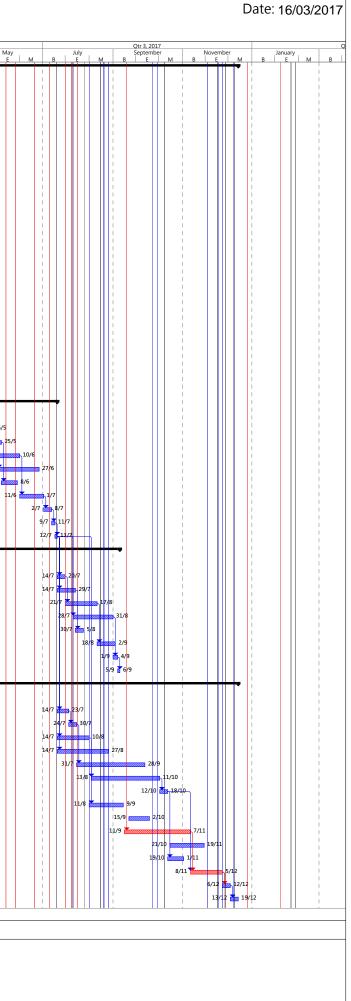
*Delay in selection of pile for loading test subject to EOT claim 7-13 Feb 2016 and 27 Jan- 2 Feb 2017

💴 Critical Path 🖾

Progres

Chinese New Year site close

Task



	ina Road and Bridge Corporation		Re	eprovisio	Master Construction Programme (Rev.08) oning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
ID	Task Name	Duration	Start	Finish	tr.3.2015 Otr.1.2016 Otr.3.2016 Otr.3.2016 Otr.1.2017 eptember November January March May July September November January March Na E M B
315	External and Landscaping works	122 days	Sun 3/9/17	Tue 2/1/18	18
316	Roads and pavings	80 days	Sun 3/9/17	Tue 21/11/17	17
317	Removal of scaffoldings	21 days	Wed 6/12/17	Tue 26/12/17	
318	EVA Construction and paving	7 days	Wed 27/12/17	Tue 2/1/18	
319	Hard Landscaping	33 days	Wed 18/10/17	Sun 19/11/17	
320 321	R.C. Planter	14 days	Wed 18/10/17	Tue 31/10/17	
322	Movable planter	14 days	Wed 25/10/17	Tue 7/11/17	
323	Trellises Benches	21 days 7 days	Mon 30/10/17 Fri 3/11/17	Sun 19/11/17 Thu 9/11/17	
324	Soft Landscaping	93 days	Wed 27/9/17	Thu 28/12/17	
325	Soft Landscaping - Material Submission/ Preparation works	28 days	Wed 27/9/17	Tue 24/10/17	
326	Soft Landscaping - Filing of soil	21 days	Fri 3/11/17	Thu 23/11/17	
327	Soft Landscaping - Plant Delivery	7 days	Fri 24/11/17	Thu 30/11/17	
328	Soft Landscaping - Planting works (Plus 12-months Establishment Period)	28 days	Fri 1/12/17	Thu 28/12/17	
329	Site enclosure and divisions	48 days	Wed 13/9/17	Mon 30/10/17	I I I I I I I I I I I I I I I I I
330	Construction of fence wal	28 days	Wed 13/9/17	Tue 10/10/17	
331	Installation of metal gates	20 days	Wed 11/10/17	Mon 30/10/17	
332	Builder's works for external services	51 days	Wed 27/9/17	Thu 16/11/17	
333	Plumbing Services (see also detail programme for Plumbing trade)	641 days	Tue 15/3/16	Fri 15/12/17	
334	Drawing Submission and Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16	
335	Equipment & Material submission Approval (details refer to submission schedule)	170 days	Tue 15/3/16	Wed 31/8/16	
336	Submission / Application of Form WWO 046 (Part I & II)	76 days	Wed 20/7/16	Mon 3/10/16	
337 338	G/F to R/F Plumbing Installation	148 days	Sat 20/5/17	Sat 14/10/17	
339	G/F Plumbing Installation	60 days	Sat 20/5/17	Tue 18/7/17	
340	UG Plumbing Installation	65 days	Tue 30/5/17	Wed 2/8/17	
341	1/F Plumbing Installation 2/F Plumbing Installation	35 days 45 days	Mon 5/6/17 Mon 19/6/17	Sun 9/7/17 Wed 2/8/17	
342	3/F Plumbing Installation	45 days	Wed 28/6/17	Fri 11/8/17	
343	4/F Plumbing Installation	40 days	Thu 13/7/17	Mon 21/8/17	
344	R/F Plumbing Installation	30 days	Tue 22/8/17	Wed 20/9/17	
345	Submission of Form WWO 046 (Part IV)	1 day	Sat 14/10/17	Sat 14/10/17	
346	Handover of All Water Tank & Pump Rooms at UG	1 day	Tue 30/5/17	Tue 30/5/17	
347	Handover of All Water Tank & Pump Rooms at 2/F	1 day	Mon 19/6/17	Mon 19/6/17	
348	Testing & Commissioning	30 days	Tue 10/10/17	Wed 8/11/17	
349	WSD Inspection	5 days	Wed 15/11/17	Sun 19/11/17	
350	Anticipated Receipt of Form WWO 046 (Part V)	1 day	Mon 20/11/17	Mon 20/11/17	
351	Obtain Water Certificate	1 day	Fri 15/12/17	Fri 15/12/17	
	Drainage Services (see also detail programme for Drainage trade)	572 days	Tue 15/3/16	Sat 7/10/17	
353	Drawing Submission and Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16	
354	Equipment & Material submission Approval (details refer to submission schedule)	120 days	Tue 15/3/16	Tue 12/7/16	
355	Aboveground G/F to UR Drainage Installation	141 days	Sat 20/5/17	Sat 7/10/17	
357	G/F Drainage Installation	60 days	Sat 20/5/17 Tue 25/7/17	Tue 18/7/17 Sat 7/10/17	
358	UG Drainage Installation 1/F Drainage Installation	75 days 45 days	Sat 5/8/17	Mon 18/9/17	
359	2/F Drainage Installation	45 days	Sat 3/8/17	Mon 2/10/17	
360	3/F Drainage Installation	45 days	Tue 22/8/17	Thu 5/10/17	
361	4/F Drainage Installation	45 days	Tue 22/8/17	Thu 5/10/17	
362	R/F Drainage Installation	15 days	Tue 22/8/17	Tue 5/9/17	
363	UR Drainage Installation	15 days	Wed 6/9/17	Wed 20/9/17	
364	Testing & Commissioning	60 days	Tue 1/8/17	Fri 29/9/17	
365	Underground Drainage	345 days	Fri 30/9/16	Sat 9/9/17	
366	Inside Building Installation	168 days	Wed 1/3/17	Tue 15/8/17	1/3
367	Inside Building Drain Test	168 days	Thu 2/3/17	Wed 16/8/17	
368	Outside Building Installation (within site boundary)	60 days	Sat 13/5/17	Tue 11/7/17	
369	Outside Building Drain Test (within site boundary)	60 days	Wed 12/7/17	Sat 9/9/17	
370	Excavation Permit Application	65 days	Mon 8/5/17	Tue 11/7/17	
371	Preparation of Form HBP1	1 day	Fri 30/9/16	Fri 30/9/16	
372	Submission of Form HBP1	21 days	Sat 1/10/16	Fri 21/10/16	
373	Construction of Terminal Manholes	25 days	Thu 1/6/17	Sun 25/6/17	
374	Final Connection to Government Manhole (tentative date, subject to XP period)	14 days	Wed 12/7/17	Tue 25/7/17	
375	Final Drainage Submission	30 days	Wed 19/7/17	Thu 17/8/17	
3/h					

Project: SSD505 - Master Construction Date: Thu 16/3/17

Milestone 🔶 Summary

Sat 16/9/17

Fri 2/2/18

Wed 19/7/17

Mon 4/1/16

60 days

761 days

Progress

Remarks:

376 DSD Inspection

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

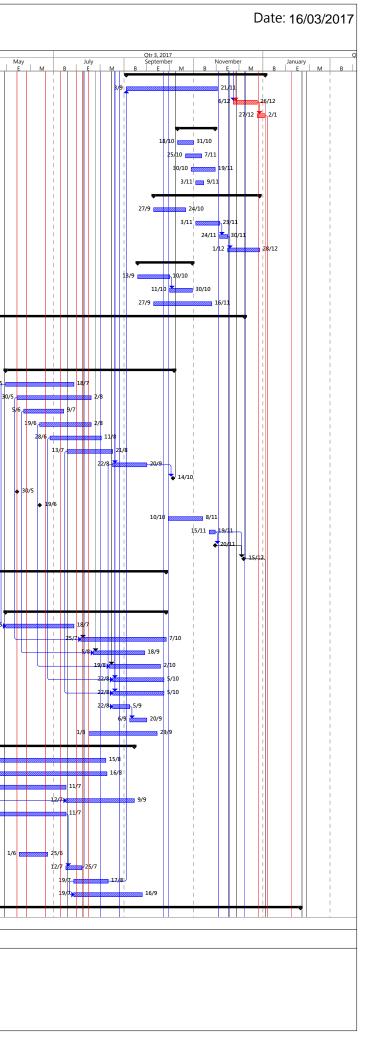
Critical Path

Chinese New Year site close

³⁷⁷ Electrical installations (see also detail programme for EL trade)

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China Road and Bridge Corporation

Master Construction Programme (Rev.08)

Page 7

Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)

ID Task Name	Duration	Start	Finish	eptember November	Qtr 1, 2016 January March B E M B E M	May M B E M	July B E M	Otr 3, 2016 September B E M 26/9	November B E M	January B E M
Drawing Submisssion and Approval (details refer to submission schedule)	267 days	Mon 4/1/16	Mon 26/9/16	4/1				1	D E M	
³⁷⁹ Equipment & Material Submisssion and Approval (details refer to submission schedule)	210 days	Tue 1/3/16	Mon 26/9/16		1/3			26/9		
80 Conceal conduit & Builder work for Electrical / ELV System	190 days	Thu 30/3/17	Thu 5/10/17			 				
81 G/F (G.L.1-5/A-K)	16 days	Thu 30/3/17	Fri 14/4/17					1		
² G/F (G.L.5-9/A-K)	16 days	Fri 14/4/17	Sat 29/4/17			l I	I I I	1		
³ UG/F (G.L.1-5/A-K)	14 days	Fri 28/4/17	Thu 11/5/17							
4 UG/F (G.L.5-9/A-K)	14 days	Thu 11/5/17	Wed 24/5/17					1	1	
⁵ 1/F (G.L.1-5/A-K)	10 days	Fri 9/6/17	Sun 18/6/17							
⁶ 1/F (G.L.5-9/A-K)	10 days	Sun 18/6/17	Tue 27/6/17					1	1	
³⁷ 2/F (G.L.1-5/A-K)	8 days	Mon 26/6/17	Mon 3/7/17							
³⁸ 2/F (G.L.5-9/A-K)	8 days	Mon 3/7/17	Mon 10/7/17		I I I I					
⁸⁹ 3/F (G.L.1-5/A-K)	9 days	Sun 9/7/17	Mon 17/7/17				I I I	1		
¹⁰ 3/F (G.L.5-9/A-K)	8 days	Mon 17/7/17	Mon 24/7/17					1		
¹¹ 4/F (G.L.1-5/A-K)	7 days	Sun 23/7/17	Sat 29/7/17				į i		1	
⁹² 4/F (G.L.5-9/A-K)	7 days	Sat 29/7/17	Fri 4/8/17		I I					
³³ R/F (G.L.1-5/A-K)	8 days	Thu 3/8/17	Thu 10/8/17					1		
⁹⁴ R/F (G.L.5-9/A-K)	8 days	Fri 11/8/17	Fri 18/8/17							
¹⁵ G/F to R/F Electrical Installation - First fixing	187 days	Thu 18/5/17	Mon 20/11/17						1	
P6 G/F Electrical installation	45 days	Thu 18/5/17	Sat 1/7/17					1		
97 UG Electrical installation	45 days	Fri 9/6/17	Sun 23/7/17							
1/F Electrical Installation	45 days	Wed 28/6/17	Fri 11/8/17						1	
99 2/F Electrical installation	45 days	Thu 13/7/17	Sat 26/8/17							
00 3/F Electrical Installation	45 days	Fri 28/7/17	Sun 10/9/17					1	1	
²¹ 4/F Electrical Installation	45 days	Fri 11/8/17	Sun 10/9/17							
² R/F Electrical Installation	45 days	Fri 18/8/17	Sun 24/ // 17							
³ Completion of CLP G/F Tx. Room	1 day	Tue 11/7/17	Tue 11/7/17			l I	I I I	1		
Installation Work of E&M Services & builder's works inside Tx. Room	45 days	Wed 12/7/17	Fri 25/8/17							
Handover G/F Tx. Room for CLP Installation Work	20 days	Sat 26/8/17	Thu 14/9/17					1	1	
CLP Installation Work in Tx. Room	60 days	Fri 15/9/17	Mon 13/11/17							
7 CLP Inspection & Power Energisation	7 days	Tue 14/11/17	Mon 13/11/17 Mon 20/11/17							
 ³ Electrical final fix (Lighting Fittings / Wiring Accessories / ELV Accessories) 	50 days	Fri 15/9/17	Fri 3/11/17							
G/F	75 days	Tue 13/6/17	Sat 26/8/17							
^D UG/F	75 days	Tue 13/6/17 Tue 27/6/17	Sat 20/0/17					1	1	
1 1/F		Tue 11/7/17	Sat 9/9/17					1	1	
2 2/F	75 days	Tue 11/7/17 Tue 25/7/17	Sat 23/9/17 Sat 7/10/17							
2 2/F 3 3/F	75 days									
	75 days	Tue 8/8/17	Sat 21/10/17					1		
4 4/F 5 R/F	75 days	Tue 22/8/17 Tue 5/9/17	Sat 4/11/17 Sat 18/11/17			I I				
	75 days							1	16/12	
	280 days	Fri 16/12/16	Thu 21/9/17		I I				10/12	
	92 days	Fri 3/11/17	Fri 2/2/18					1		
	30 days	Sat 30/9/17	Sun 29/10/17							
	31 days	Sat 16/9/17	Mon 16/10/17							
T&C for Distribution Board	31 days	Mon 2/10/17	Wed 1/11/17				I I I	1		
T&C for Power Management System	30 days	Mon 2/10/17				l I				
² T&C for Lighting Fitting & Small Power	54 days	Mon 11/9/17	Fri 3/11/17				į i	1	1	
3 T&C for PV System	30 days	Thu 2/11/17	Fri 1/12/17		I I	l l	i l Í l			
LVSB. System	653 days	Fri 15/4/16	Sat 27/1/18				1			
Drawing Submisssion and Approval of LVSB (details refer to submission schedule)	111 days	Fri 13/5/16	Wed 31/8/16			13/5		1/8		
6 Equipment & Material Submission and Approval of LVSB (details refer to submission schedule)	92 days	Fri 15/4/16	Fri 15/7/16		15/4		15/7		1	
schedule) Handover I V Switch Room for Flect / 1 V Sw Rd						1		1		
Handover LV Switch Room for Elect / LV Sw.Bd.	1 day	Sat 19/8/17	Sat 19/8/17							
E&M Work inside LV Switch Room	138 days	Sun 20/8/17	Thu 4/1/18					1	1	
Factory Test for LV Switchboard	19 days	Sun 24/9/17	Thu 12/10/17					1	1	
LV Cubicle Switchboard Installation	40 days	Sat 2/9/17	Wed 11/10/17							
Site Test for LV Switchboard	20 days	Sun 24/9/17	Fri 13/10/17						1	
Handover 1/F-4/F Sub-S.W. Rm. For Electrical Work	106 days	Sat 14/10/17	Sat 27/1/18							
³ Generator	658 days	Mon 1/2/16	Sun 19/11/17							
Drawing Submisssion and Approval of Generator (details refer to submission schedule)	140 days	Thu 14/4/16	Wed 31/8/16		14/4 📷		3	1/8	1	
 Equipment & Material Submission and Approval of Generator (details refer to submission 	151 days	Mon 1/2/16	Thu 30/6/16		1/2		30/6			
schedule)	131 uays	wi011 1/2/10	1 nu 30/0/10			I		1		
 ¹⁶ Submission Application for EPD (Generator Set System) 	62 days	Mon 22/8/16	Sat 22/10/16				22/8	22/	10	
		Sat 2/9/17	Fri 15/9/17				1		1	
7 Handover 3/F & R/F Generator Room for Installation Work	14 days	Jat 2/9/17	FIL15/9/17		I I	I	L L	1		
8 Diesel Generator Installation	60 days	Sat 2/9/17	Tue 31/10/17			1	1	1		

Summary

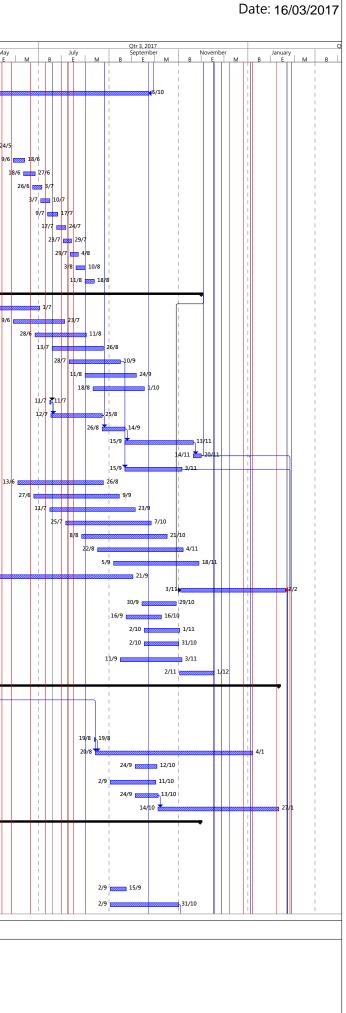
Remarks:

Project: SSD505 - Master Construction Date: Thu 16/3/17 Task

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

Critical Path

Chinese New Year site close



China Road and Bridge Corporation

Master Construction Programme (Rev.08)

							ee Street Environment	,,,								_
ID	Task Name	Duration	Start	Finish	eptember	November	Qtr 1, 2016 January March B F M	May B F M	July B F M	Qtr 3, 2016 September	November B F M	January B E N	4 B	tr 1, 2017 March	Ma	ay
439	Site Test for Diesel Generator Installation	19 days	Wed 1/11/17	Sun 19/11/17	7	<u> </u>					<u> </u>					
440	ELV. System	383 days	Wed 14/12/16	Sun 31/12/17	_									1		-
441	Drawing Submission and Approval of ELV (details refer to submission schedule)	49 days	Wed 14/12/16	Tue 31/1/17	7			1		 	14/12	31/1				
442	Broadcast Reception Installation	107 days	Wed 16/8/17	Thu 30/11/17	7				1	1 1		1				
443 444	Burglar Alarm and Security Installation	107 days	Wed 16/8/17	Thu 30/11/17								1	1			
444	Audio Electronic Installation	107 days	Wed 16/8/17	Thu 30/11/17												
446	T&C for CABD System	77 days	Mon 16/10/17	Sun 31/12/17	7		I I I I	1	1			I I				
447	T&C for CCTV System T&C for PA System	77 days 77 days	Mon 16/10/17 Mon 16/10/17	Sun 31/12/17 Sun 31/12/17			I I					l I				
448	T&C for Watchman Tour System	77 days	Mon 16/10/17	Sun 31/12/17	7			1		 		1				
449	T&C for Smart Card System	77 days	Mon 16/10/17	Sun 31/12/11	7				1	1 1		1				
450	T&C for Induction Loop	77 days	Mon 16/10/17	Sun 31/12/17	-							1	i i			
451	T&C for energy management system	77 days	Mon 16/10/17	Sun 31/12/17												
452	Mechanical Ventilation and Air conditioning installations (see also detail programme for WVAC trade)	732 days	Fri 5/2/16	Mon 5/2/18								 				-
453	Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Wed 10/8/16	Sun 5/2/17	7			l I	10/8	+		5/2				
454	Equipment & Material Submisssion and Approval (details refer to submission schedule)	180 days	Fri 5/2/16	Tue 2/8/16	6		5/2		2/8			1				
455	Major MVAC Material Delivery	236 days	Sun 19/2/17	Thu 12/10/17	7							•				-
456	Cooling Tower	120 days	Thu 25/5/17	Thu 21/9/17	7							1			25/5 _	-
457	Water Cooled Chiller	160 days	Sun 19/2/17	Fri 28/7/17	7		I I I I	1				19/2				-
458	Water Scrubber	145 days	Mon 13/3/17	Fri 4/8/17			I I	1				1	13/3	1		-
459	Heat Pump Unit	145 days	Wed 10/5/17	Sun 1/10/17	-			1				1			5	8
460	Heat Transfer Compact Unit	145 days	Wed 10/5/17	Sun 1/10/17	-			1				1		10/5	5	-
461 462	Water Calorifier	145 days	Wed 10/5/17	Sun 1/10/17	-							1		10/3	/5	_
462	Water Pump	145 days	Fri 12/5/17	Tue 3/10/17								1	26/3		-	_
464	MCC Flat Plat type Seler Collector	135 days	Sun 26/3/17 Mon 5/6/17	Mon 7/8/17 Thu 12/10/17	-							1	1 1	1	5/6	; .
465	Flat Plat type Solar Collector Flat Plat type Solar Collector	130 days 130 days	Mon 5/6/17	Thu 12/10/17	-		I I I I	1				I I			5/6	1
466	Vehicle Exhaust Extraction System	120 days	Fri 24/3/17	Fri 21/7/17	'							l I	24/3	1		
467	Welding Exhaust System	120 days	Fri 24/3/17	Fri 21/7/17	_			1				1	24/3	-		
468	Automatic Condenser Tube Cleaning System	105 days	Mon 17/4/17	Sun 30/7/17	-			1		1 1		1		17/4		
469	Submission & Approval of AC Layout(Initial) by WSD	22 days	Thu 19/1/17	Fri 10/2/17	-			i.				19/110/	2			
470	Submission/Application of form WWO 046(Part I & II) for Cooling Tower Installation	75 days	Fri 10/2/17	Tue 25/4/17	7							10/2		25/	'4	
471	Submission of form WWO 046(Part IV) for Cooling Tower Installation	1 day	Thu 25/1/18	Thu 25/1/18	В							1				
472	Submission of CT1B & CT4 to EMSD for Cooling Tower Installation	1 day	Tue 24/1/17	Tue 24/1/17	7		I I I I	1		 		24/1 24/1				
473	Submission of CT2B to EMSD for Cooling Tower Installation	1 day	Sat 25/11/17	Sat 25/11/17	7			1				1				
474	Submission of VAC Drawing(Initial) to FSD	47 days	Fri 13/1/17	Tue 28/2/17	7			1		1 I 1 I		13/1	28/2	1		
475	Final Submission of VAC form 501 for MVAC Installation	1 day	Wed 13/12/17	Wed 13/12/17	7								1 1	1		
476	Conceal Conduit & Builder Work for MVAC	130 days	Thu 27/4/17	Sun 3/9/17	_			i.						27/4		-
477	G/F to R/F MVAC Installation	187 days	Fri 7/7/17	Tue 9/1/18												
478	G/F MVAC Installation	90 days	Fri 7/7/17	Wed 4/10/17	_										4	-
479 480	UG/F MVAC Installation	120 days	Mon 24/7/17	Mon 20/11/17	-		 		1	1 I 1 I						
480	Handover of UG/F Chiller Plant for MVAC Installation	1 day	Mon 24/7/17	Mon 24/7/17	_			1	1	1 I 1 I						
481	UG/F MVAC Installation in Chiller Plant	90 days	Tue 25/7/17 Mon 31/7/17	Sun 22/10/17	-				1							
483	Handover of UG/F AHU Rm for MVAC Installation - UG/F MVAC Installation in AHU Rm	1 day 28 days	Tue 1/8/17	Mon 31/7/17 Mon 28/8/17												
484	- UG/F MVAC Installation III AHD RM Handover of UG/F Water Pump Rm. for MVAC Installation	28 days 1 day	Mon 24/7/17	Mon 24/7/17	-			i.								
485	- UG/F MVAC Installation in Water Pump Rm.	80 days	Tue 25/7/17	Thu 12/10/17	-		I I	l I	1							
486	Handover of UG/F Exhaust Air Fan Rm. for MVAC Installation	1 day	Tue 8/8/17	Tue 8/8/17	-		 		1	1 I 1 I						
487	- UG/F MVAC Installation in Exhaust Air Fan Rm.	60 days	Wed 9/8/17	Sat 7/10/17				1	1	I I I I						
488	Handover of UG/F MCC Rm. for MVAC Installation	1 day	Thu 3/8/17	Thu 3/8/17	- 1			1	1					1		
489	- UG/F MVAC Installation in MCC Rm.	83 days	Fri 4/8/17	Wed 25/10/17	-			i								
490	Handover of G/F Vehicle Washing Bay for MVAC Installation	1 day	Sun 16/7/17	Sun 16/7/17	-									1	l	_
491	- G/F MVAC Installation in Vehicle Washing Bay	75 days	Mon 17/7/17	Fri 29/9/17			I I I I	I I	1	1 1				1		
492	1/F MVAC Installation	60 days	Thu 10/8/17	Sun 8/10/17	7			1		1 I 1 I						
493	2/F MVAC Installation	75 days	Wed 23/8/17	Sun 5/11/17	7			1	1	1 I 1 I						
494	3/F MVAC Installation	90 days	Wed 6/9/17	Mon 4/12/17	7			1	1							
495	Handover of 3/F PAU Rm (West Wing) for MVAC Installation	1 day	Wed 6/9/17	Wed 6/9/17	7											
496	- 3/F MVAC Installation in PAU Rm (West Wing)	57 days	Thu 7/9/17	Thu 2/11/17	7											
497	Handover of 3/F PAU Rm (East Wing) for MVAC Installation	1 day	Tue 12/9/17	Tue 12/9/17	7		I I I I		1	1 I 1 I						
498	- 3/F MVAC Installation in PAU Rm (East Wing)	52 days	Wed 13/9/17	Fri 3/11/17	7			1	1	 				1		
499	4/F MVAC Installation	115 days	Sun 17/9/17	Tue 9/1/18	В			1	1					1		
500	Handover of 4/F Cooling Tower Plant for MVAC Installation	1 day	Sun 17/9/17	Sun 17/9/17	7			i								

Project: SSD505 - Master Construction Task Date: Thu 16/3/17 Milestone 🔶 Summary 🛡 🔫

Remarks:

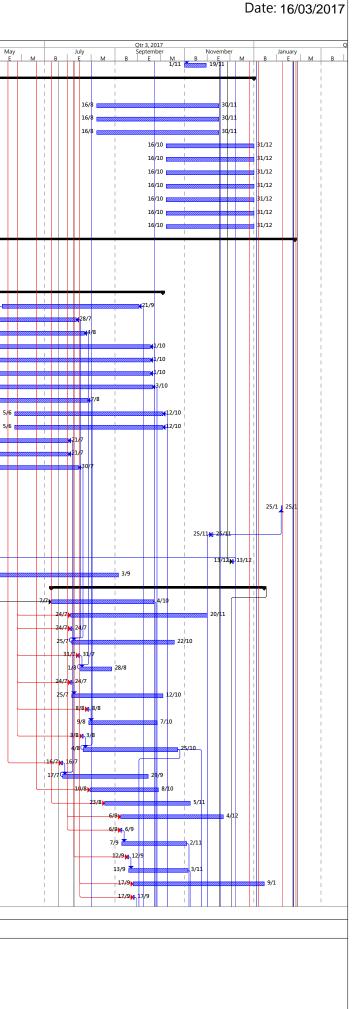
*Delay in selection of pile for loading test subject to EOT claim 7-13 Feb 2016 and 27 Jan- 2 Feb 2017

Critical Path Progress

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Chinese New Year site close

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China Road and Bridge Corporation

Master Construction Programme (Rev.08)

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			Re			f FEHD Sai Y				_	-	um-vehicle		ot at Yen	Ming Road			
ID	Task Name	Duration	Start	Finish)tr 3, 2015 eptember	November B F M	January B F M	Qtr 1, 2016 March B F N	Ma M B E	ay M	July B F	Qtr 3, 2016 Septembe M B F	r l	November	January B F M	Qtr 1, 20 March)17	B
501	- 4/F MVAC Installation in Cooling Tower Plant	82 days	Mon 18/9/17	Fri 8/12/17	E M	BEM	B E M	BEN		M	BE	MBE		BEM	B E M	BE	м	В
502	Handover of PAU Rm (West Wing) for MVAC Installation	1 day	Sun 3/9/17	Sun 3/9/17			i I			i			Ì		 		i i	
503	- 4/F MVAC Installation in PAU Rm (West Wing)	45 days	Mon 4/9/17	Wed 18/10/17						i			1		 		i i	
504	R/F MVAC Installation	100 days	Wed 27/9/17	Thu 4/1/18		1	1			1					1	i i	i	
505 506	Handover of R/F Heat Pump Plant for MVAC Installation	1 day	Wed 27/9/17	Wed 27/9/17			1			1			1		1			
507	- R/F MVAC Installation in Heat Pump Plant Handover of Flat Roof for MVAC Installation	100 days	Thu 28/9/17 Fri 6/10/17	Fri 5/1/18 Fri 6/10/17											1			
508	- R/F MVAC Installation in Flat Roof	1 day 70 days	Sat 7/10/17	Fri 15/12/17											1			
509	Testing & Commissioning (MVAC)	51 days	Sat 16/12/17	Sun 4/2/18											1			
510	Testing & Commissioning & Handover(MVAC)	311 days	Sat 1/4/17	Mon 5/2/18									1					
511	Cooling Tower Function & Full Load Test	22 days	Sat 9/12/17	Sat 30/12/17									1					
512	Water Cooled Chiller Factory Test	14 days	Sat 1/4/17	Fri 14/4/17									1			1/4	14/4	
513	Water Cooled Chiller Function & Full Load Test	30 days	Sat 16/12/17	Sun 14/1/18		1	l I					I			 		1	
514	Water Pump Performance Test	21 days	Sat 2/12/17	Fri 22/12/17			l l						1					
515 516	Water Pump Alignment Test	21 days	Sat 25/11/17	Fri 15/12/17		1	l I					1					1	
517	Water Scrubber Performance Test Heat Pump Unit Performance Test	35 days	Sat 30/12/17 Sat 16/12/17	Fri 2/2/18 Mon 29/1/18		1	l I			1		1			1		1	
518	Heat Pump Unit Performance Test Heat Transfer Compact Unit Performance Test	45 days 30 days	Sat 16/12/17 Sat 6/1/18	Sun 4/2/18		1	l I					l I	1		1		1	
519	Solar Hot Water System Performance Test	45 days	Sat 16/12/17	Mon 29/1/18		1	l I			i I			l I		1			
520	Fan Coil Units Function Test	56 days	Sat 9/12/17	Fri 2/2/18		1	1						- 		1		1	
521	Water Balancing	58 days	Sat 2/12/17	Sun 28/1/18			1								 			
522	AHU & PAU Function Test	58 days	Sat 4/11/17	Sun 31/12/17			1			1			1		1	i i	i i	
523	Ventilating Fans Function Test	58 days	Fri 3/11/17	Sat 30/12/17											1			
524	Vehicle Extraction System Function Test	21 days	Thu 16/11/17	Wed 6/12/17									1					
525	Welding Extraction System Function Test	21 days	Thu 23/11/17	Wed 13/12/17		1	l I			1					1			
526	VRV Unit Function Test	30 days	Thu 19/10/17	Fri 17/11/17			l I					I					1	
527 528	Bio-oxygen Generator Function Test	21 days	Sat 11/11/17	Fri 1/12/17		1	l I					1						
529	Ultra Violet Sterilizing Light Function Test	30 days	Tue 14/11/17	Wed 13/12/17 Tue 2/1/18		1	l I			1			1		1		1	
530	Ductwork Leakage Test Air Balancing and Flow Measurement	90 days 36 days	Thu 5/10/17 Mon 1/1/18	Mon 5/2/18		1	l I											
531	Air Duct Cleaning	33 days	Mon 1/1/18	Fri 2/2/18		1	1			1			I I		1		1	
532	IAQ Measurement	9 days	Wed 24/1/18	Thu 1/2/18		 				i			Ì		 		i i	
533	Motor Control Cubicles (MCC) Factory Test	7 days	Sat 29/4/17	Fri 5/5/17						i					 	i i	29/4	5/5
534	Motor Control Cubicles (MCC) Site Test	7 days	Tue 26/9/17	Mon 2/10/17													Ļ	
535	CCMS Functional Test	93 days	Fri 3/11/17	Sat 3/2/18														
536	VAC Functional Test	14 days	Wed 6/12/17	Tue 19/12/17									1					
537	N.C. Measuring Test	30 days	Tue 19/12/17	Wed 17/1/18		1	l l			1		1			1		1	
538 539	Room temperature Measuring Test	45 days	Tue 19/12/17	Thu 1/2/18		1	l I					I			 		1	
540	Function Test for Condensate Drain Pipe	21 days	Thu 19/10/17 Sat 9/12/17	Wed 8/11/17 Fri 29/12/17		1							I I					
	PCO performanance test Fire services installations (see also detail programme for FS trade)	21 days 651 days	Thu 24/3/16	Wed 3/1/18		1	l I								 	 		
542	Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Mon 25/7/16	Fri 20/1/17		1	l I			1	25/7	1			20/1		1	
543	Equipment & Material Submission and Approval (details refer to submission schedule)	180 days	Thu 24/3/16	Mon 19/9/16		1	1	24/3				19/9	1		 	1 1		
544	Approval of GBP(Initial) by FSD & WSD	21 days	Fri 5/8/16	Thu 25/8/16		1	l I				5/8	25/8	1					
545	Submission/Application of form WWO 046(Part I & II) for F.S. Installation	76 days	Tue 17/1/17	Mon 3/4/17			1			Ì			Ì		17/1		3/4	
546	Submission of form WWO 046(Part IV) for F.S. Installation	1 day	Thu 14/12/17	Thu 14/12/17		1	l.		 						1			
547	Submission of Drawing for D.G. Liscence to FSD for Approval	60 days	Mon 17/10/16	Thu 15/12/16								17/1	0	15/1	2			
548	Rehearsal of FSD Inspection	2 days	Tue 5/12/17	Wed 6/12/17		- 	[[
549 550	Final Submission of Form314(Layout) & Form501(FS related) to FSD	1 day	Wed 13/12/17	Wed 13/12/17		1	1								1	3//(=		
550	Concealed Conduit & Builder Work for FS.	149 days	Mon 3/4/17 Thu 20/4/17	Tue 29/8/17 Wed 20/12/17		1									1			
552	G/F to R/F F.S. Installation - First fixing Application of Direct Telephone Link	245 days 1 day	Tue 2/5/17	Tue 2/5/17			l I										2/5	2/5
552	Handover of G/F F.S. Transfer Pump Rm. for F.S. Installation	1 day	Fri 30/6/17	Fri 30/6/17		1	l l					I I	1		l l		1	
554	F.S. Installation in F.S. Transfer Pump Rm.	60 days	Sat 1/7/17	Tue 29/8/17		1	l l						1		l l		1	
555	Handover of G/F F.S. Control Rm. for F.S. Installation	1 day	Sat 15/7/17	Sat 15/7/17		1	l I						1		1		1	
556	F.S. control panel Installation in F.S. control Rm.	60 days	Sun 16/7/17	Wed 13/9/17		1	l I						1		I I		1	
557	G/F FS Installation	110 days	Tue 11/7/17	Sat 28/10/17		1	l I			Ì			Ì		l I		1	
558	UG/F FS Installation	100 days	Tue 25/7/17	Wed 1/11/17													1	
559	1/F FS Installation	100 days	Mon 14/8/17	Tue 21/11/17			L											
560	2/F FS Installation	80 days	Wed 13/9/17	Fri 1/12/17														
561 562	3/F FS Installation	60 days	Tue 3/10/17	Fri 1/12/17		1									1		1	
562	4/F FS Installation	40 days	Mon 23/10/17	Fri 1/12/17		1	l I								1		1	
202	R/F FS Installation	65 days	Wed 18/10/17	Thu 21/12/17		1	1		1			1	1		1	1 1	1	

Remarks:

Project: SSD505 - Master Construction Date: Thu 16/3/17 Task

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

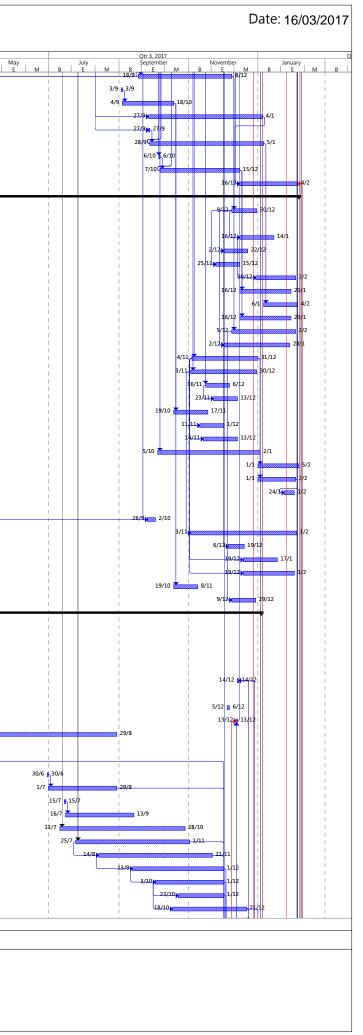
Critical Path 🔤

Progress

Milestone 🔶

Summary

Chinese New Year site close



China Road	and Bridge	Corporation

Master Construction Programme (Rev.08)

					f FEHD Sai Yee	Street Er		tal Hyg	iene Of	fices-cun		pot at Yen	Ming Road		
ID Task Name	Duration	Start	Finish	tr 3, 2015 eptember	November B F M B	January E M	Qtr 1, 2016 March B E M	B B	ay J	July B E M	Otr 3, 2016 September B E M	November B F M	January B F M	Qtr 1, 2017 March B E M	B
564 Handover of SPR. & F.S. Pump Rm. for F.S. Installation	1 day	Fri 30/6/17	Fri 30/6/17		B E M B	EIM				D E M	B E M	B E M			
565 F.S. Installation in SPR. & F.S. Pump Rm.	99 days	Sat 1/7/17	Sat 7/10/17				1	i I	i i						i I
566 F.S. Final fixing	30 days	Sat 2/12/17	Sun 31/12/17				1								i i
567 Water Authority inspections for FS Installation	1 day	Fri 29/12/17	Fri 29/12/17				1	1					l I		I
568 FS inspection for DG Stores (1st)	7 days	Tue 26/9/17	Mon 2/10/17				1						l I		1
569 FS inspection for DG Stores (2nd)	7 days	Tue 3/10/17	Mon 9/10/17				1	1					1		1
570 Obtained DG. Licence	7 days	Tue 10/10/17	Mon 16/10/17				1	1	i i		1				Ì
571 Testing & Commissioning (FS)	28 days	Thu 7/12/17	Wed 3/1/18	3											1
572 Hydraulic Test for Pipework	4 days	Thu 7/12/17	Sun 10/12/17				1	1					T T		I I
573 G/F & UG/F	4 days	Thu 7/12/17	Sun 10/12/17				1		 				1		1
574 1/F	3 days	Thu 7/12/17	Sat 9/12/17				1	1	1				1		1
575 2/F	3 days	Thu 7/12/17	Sat 9/12/17				1								i.
576 3/F	3 days	Thu 7/12/17	Sat 9/12/17				1		I.				I I	I I	I I
577 4/F	3 days	Thu 7/12/17	Sat 9/12/17				1		1				1		1
578 R/F	3 days	Thu 7/12/17	Sat 9/12/17				1	1	l I				1		I I
579 Equipment Performance Test	4 days	Thu 7/12/17	Sun 10/12/17				1								i.
580 G/F & UG/F	4 days	Thu 7/12/17	Sun 10/12/17				i I						1	I I	I I
581 1/F	3 days	Thu 7/12/17	Sat 9/12/17				1	1	1		1		l I		1
582 2/F	3 days	Thu 7/12/17	Sat 9/12/17				1	1	I.				1		I I
583 3/F	3 days	Thu 7/12/17	Sat 9/12/17					i.					i.		i i
584 4/F	3 days	Thu 7/12/17	Sat 9/12/17	_			1	1	I.				I I	I I	I I
585 R/F	3 days	Thu 7/12/17	Sat 9/12/17				1		 				1		1
586 Interfacing test with AC/EE/Lift/Fire Shutter etc.	3 days	Mon 1/1/18	Wed 3/1/18	8			1						1		1
587 Mechanical handling and lifting installation	462 days	Wed 31/8/16	Tue 5/12/17	_			1				•		1		1
588 Drawing Submisssion and Approval (details refer to submission schedule)	45 days	Wed 31/8/16	Fri 14/10/16	b			1			31/8	1		1	I I	1
589 Equipment & Material Submisssion and Approval (details refer to submission schedule)	60 days	Wed 31/8/16	Sat 29/10/16	b			1			31/8		29/10	1	I I	
590 Gondola system	116 days	Fri 4/8/17	Mon 27/11/17	_			1	1	1				1		1
591 Cast-in bolt	15 days	Fri 4/8/17	Fri 18/8/17				1	1							i i
592 Guide rail installation	31 days	Sat 19/8/17	Mon 18/9/17	_											1
593 Gondola system installation	40 days	Tue 19/9/17	Sat 28/10/17				1	1	I I				I I		I I
594 T&C for gondola	7 days	Tue 21/11/17	Mon 27/11/17				1		1				1		1
595 Scissor platform	66 days	Sun 1/10/17	Tue 5/12/17				1	1					1		I I
596 Installation 597 T&C for scissor platform	50 days	Sun 1/10/17	Sun 19/11/17				1		i i						i.
	7 days	Wed 29/11/17	Tue 5/12/17						1				1		1
598 Lift (by Nominated Subcontractor) 599 Nomination of lift subcontractor	618 days	Wed 13/4/16	Thu 21/12/17	-			13/4 13/4						T T		1
	1 day	Wed 13/4/16	Wed 13/4/16				1	1	 	30/8	14/10		1		1
600 Drawing Submisssion and Approval (details refer to submission schedule) 601 Manufacturing & Shipment	46 days 181 days	Tue 30/8/16 Sat 1/10/16	Fri 14/10/16 Thu 30/3/17						1	,-	1/10		i.	30/3	1
602 Equipment & Material Submisssion and Approval (details refer to submission schedule)	60 days	Sun 9/10/16	Wed 7/12/16				1				9/10	7/12	1	I I	i.
603 Handover of lift shafts and machine rooms to NSC	-	Tue 15/8/17	Tue 15/8/17				1	1	I I		-/		l I		1
604 Installation, T&C (Details subject to NSC's programme)	0 days 99 days	Tue 15/8/17	Tue 21/11/17				1						1		1
605 Submission of Form 5		Wed 1/11/17	Wed 22/11/17				1	1	l I				1		1
606 Statutory inspections and obtain lift certificate	22 days 51 days	Wed 1/11/17 Wed 1/11/17	Thu 21/12/17	_			- 						i. I		i I
607 Lift certificate Obtained (L3, Fireman's Lift)	30 days	Wed 1/11/17 Wed 1/11/17	Thu 21/12/17				1		I I						
608 Lift certificate Obtained (L4, Fireman's Lift)	30 days 30 days	Wed 1/11/17 Wed 1/11/17	Thu 30/11/17	7			1	I I	I I				I I	I I	I I
609 Lift certificate Obtained (L6, Fireman's Lift)	30 days	Wed 1/11/17	Thu 30/11/17				1	1					1		1
610 Lift certificate Obtained (L5, Fireman's Lift)	30 days	Wed 1/11/17	Thu 30/11/17				1						1		1
611 Lift certificate Obtained (L1, L2)	30 days	Wed 22/11/17	Thu 21/12/17					1					1	I I	
612 Beam Plus - FA Submission	90 days	Wed 1/3/17	Mon 29/5/17				1						1/3		
613 Beam Plus - IEQ 6, 7 and WUP1	7 days	Mon 11/12/17	Sun 17/12/17				1	1					l I	I I I I	I I
614 FSD inspection and Issuance of Certificate (After SCCU Inspection)	21 days	Wed 3/1/18	Tue 23/1/18	-			1	1	I.				1		1
615 FSD inspection (1st)	7 days	Wed 3/1/18	Tue 9/1/18					i.					i.		i i
616 FSD inspection (2nd)	7 days	Wed 10/1/18	Tue 16/1/18				i I	I.	I I				i I	i i I I	1
617 Obtained FS certificate	7 days	Wed 17/1/18	Tue 23/1/18				1						l I		I I
618 Coordination & grant access to EMSD's contractor for installation of equipment	50 days	Mon 11/12/17	Mon 29/1/18				1						1		
619 SCCU Pre-inspection	25 days	Tue 12/12/17	Fri 5/1/18					1					i.		
620 SCCU Inspection	12 days	Wed 24/1/18	Sun 4/2/18				1		1				1		
621 General inspection with FEHD/ArchSD/S.O.	28 days	Tue 2/1/18	Mon 29/1/18				1	1			1		I I		I I
622 General cleaning	20 days	Mon 5/2/18	Tue 6/2/18				1	1	l.				1		1
623 Practical completion	0 days	Tue 6/2/18	Tue 6/2/18					i.					1		i i
624 Handover of works	0 days	Tue 6/2/18	Tue 6/2/18				1		I I					I I	I I
	0 0035	136 0/2/10	. 46 6/2/10					1	I				1		

Project: SSD505 - Master Construction Date: Thu 16/3/17 Milestone

Summary

Remarks:

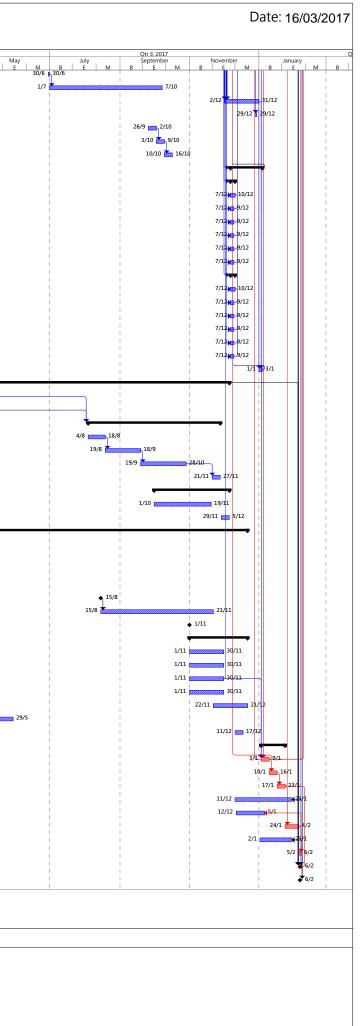
*Delay in selection of pile for loading test subject to EOT claim 7-13 Feb 2016 and 27 Jan- 2 Feb 2017

💴 Critical Path 🔤

Progress

Chinese New Year site close

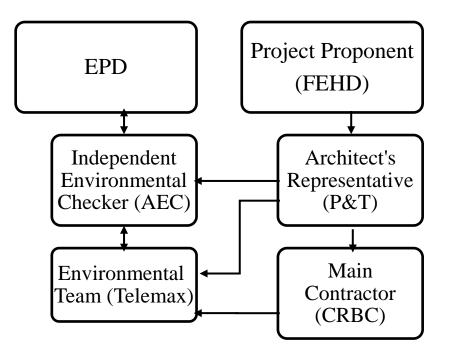
Task



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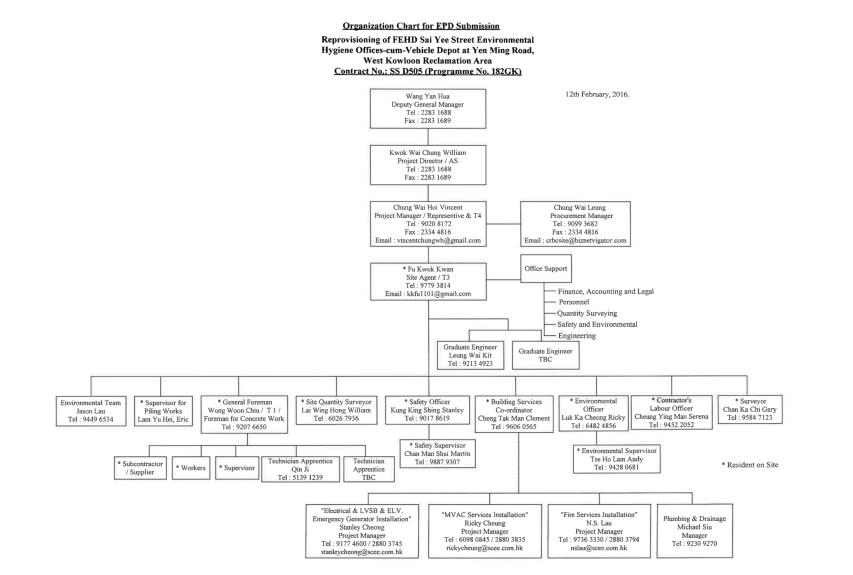
Appendix B Organization Chart





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Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

		T (*		Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Air	Quality (Construction)					
•	Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	All areas	✓			
•	Use of frequent watering for particularly dusty construction areas close to ASRs	All areas	√			
•	Side enclosure and covering of any practicable owing to frequent usage, watering should be applied to aggregate fines;	All areas	~			
•	Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage piles near ASRs;	All areas	√			
•	Tarpaulin covering of all dust vehicle loads transported to, from and between site locations;	All areas				√
•	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;	All areas	✓			
•	Imposition of speed controls for vehicle son unpaved site roads. 8 km/hr is the recommended limit;	All areas	✓			
•	Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs;	All areas	✓			
•	Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA), if applicable, should be covered entirely buy impervious sheeting or placed in an area sheltered on the top and the 3-sides; and	All areas				✓
•	Loading, unloading, transfer, handling or storage of large amount of cement or dry PFA should be carried out in a totally enclosed system or facility, and nay vent or exhaust should be fitted with the an effective fabric filter or equivalent air pollution control system.	All areas				✓
•	3-sides enclosed washing bays and maintenance workshops, served with mechanical ventilations to maintain all the time with proper negative air pressure.	Washing bays & maintenance workshops				✓
•	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				~





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Noise – Schedule of Recommended Mitigation Measures

		T	Implementation Status			
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
•	Carefully arrange the timing and sequencing of the various construction activities according to the actual site work situation;	All areas	~			
•	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	1			
•	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	4			
•	 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	1			
•	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	~			
٠	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				\checkmark
•	Acoustic treatment, such as acoustic louvres, silencers, enclosures could be applied to achieve noise attenuation on the use of MVAC and other Building Service Equipment so that the SWL of the equipment shall not exceed the specified "maximum allowable SWL" in various plant rooms.	Transport Workshop Section				✓

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Water Quality – Schedule of Recommended Mitigation Measures

		Taradian	Implementation Status			
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Water Qua	lity and Sewerage					
const both t to div under	the establishment of works site, perimeter cut-off drains to direct offsite water around the Site should be ructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels) temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided vert the stormwater to silt removal facilities. The design of the temporary on-site drainage system will be rtaken by the Contractor prior to the commencement of construction;	All areas	*			
Temp a silt enhar	s or embankments for flood protection should be implemented around the boundaries of earthworks areas. borary ditches should be provided to facilitate the run-off discharge into an appropriate watercourse, through / sediment trap. Silt / sediment traps should also be incorporated in the permanent drainage channels to nee deposition rates;	All areas	*			
1/94, The s would traps	design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN which states that the retention time for silt / sand traps should be 5 minutes under maximum flow conditions. sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m^3 d 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 should be undertaken by the Contractor prior to the commencement of construction;	All areas				4
to Sep the ce	construction works should be programmed to minimize surface excavation works during rainy seasons (April ptember), as soon as possible after the earthworks have been completed, or alternatively, within 14 days of essation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or y time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other as;	All areas	1			
flows advar incler	overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water s, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional ntage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of ment weather and the reduction of surface sheet flows;	All areas	1			
to ens grits s	rainage facilities and erosion and sediment control structures should be regularly inspected and maintained sure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;	All areas	~			
in we	sures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches et season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water bed out from trenches or foundation excavations should be discharged into storm drains via silt removal ties;	All areas	1			
with const	pen stockpiles of construction materials (for example, aggregates, sand and fill material should be covered tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of ruction materials, soil, silts or debris into any drainage system;	All areas	*			
to pre direct	noles (including newly constructed ones) should always be adequately covered and temporarily sealed so as event silt, construction materials or debris being washed into the drainage system and storm run-off being ted into foul sewers;	All areas	*			
immi	autions to be taken at any time of the year when rainstorms are likely actions to be taken when a rainstorm is nent or forecasted and during or after rainstorms, are summarized in Appendix A2 of ProPECC PN 1/94. cular attention should be paid to the control of silty surface run-off during storm events;	All areas	*			
• All ve	ehicles and plant should be cleaned before leaving the Site to ensure no earth, mud, debris and the like is	All areas	✓			

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



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Waste – Schedule of Recommended Mitigation Measures

		T (*	Implementation Status			
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Wast	e Management and Land Contamination					
•	The requirements as stipulated in the ETWB TC(W) No. 19/2005 "Environmental Management on Construction Sites" and the other relevant guidelines should be included in the Particular Specification for the Contractor as appropriate. Contractor should be required to implement the recommended waste management measures through establishing a Waste Management Plan (WMP) in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should be submitted to the Project/Site Engineer prior to the construction commencement of the Project for approval and include the followings: Waste management policy; Record of generated waste; Waste reduction target; Waste reduction programme; Role and responsibility of waste management team; Benefit of waste management; Analysis of waste materials; Reuse, recycling and disposal plans; Transportation process of waste products; and Monitoring and action plan. The waste management hierarchy below should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (location) should be properly documented	All areas	4			
•	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	4			
•	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	~			
٠	All waste containers shall be in a secure area on hardstanding.	All areas	✓			
٠	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	1			
•	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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•	3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com No waste shall be burnt on-site	All areas	√		
•	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	All areas	✓		
,	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas	✓		
•	Sorting of demolition debris and excavated materials from demolition works to recover reusable/recyclable				
	portions (i.e. soil, broken concrete, metal etc.).	All areas	~		
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	✓		
•	Encourage collection of aluminum cans by providing separate labeled buns to enable this waste to be segregated from other general refuse generated by the workforce.	All areas	✓		
•	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	All areas	✓		
•	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	All areas	✓		
•	Waste haulier must hold a valid permit for the collection of waste as stipulated in their permits, Removal of waste should be done in a timely manner.	All areas	~		
•	Register as a Chemical Waste Producers to the EPD	All areas	✓		
•	Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;	All areas	✓ (
•	Having a capacity of <450L unless the specifications have been approved by the EPD;	All areas	✓		
•	Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations;	All areas	✓		
•	Clearly labelled and used solely for the storage of chemical wastes;	All areas	√		
•	Enclosed with at least 3 sides;	All areas	✓		
•	Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container of 20% by volume of the chemical waste stored in the area, whichever is greatest;	All areas	✓		
•	Adequate ventilation;	All areas	✓		
•	Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary);		✓		
•	Incompatible materials are adequately separated.	All areas	√		
•	Adequate numbers of portable toilet should be provide for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilizing them. Night soil should be regularly collected by licensed collectors.		~		
•	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.	The Office- cum-Vehicle Depot			1
•	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.	The Office- cum-Vehicle Depot			~
•	The recommendations proposed for the mitigation of impacts from chemical waste in construction phase should also be followed.	The Office- cum-Vehicle Depot			V



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•	Provide recycling bins at designated areas for proper recycling of papers, aluminum cans and plastics bottles	The Office- cum-Vehicle Depot	1
•	Separation from other waste types and collected by licensed collectors at daily basis to minimize the potential impacts from odour and vermin.	The Office- cum-Vehicle Depot	1
•	Storage of Chemicals and Chemical Wastes	The Office- cum-Vehicle Depot	1
•	Emergency Procedures	The Office- cum-Vehicle Depot	1
•	Spillage/leakage of Liquid Chemical/Waste at Storage Area	The Office- cum-Vehicle Depot	1
•	Spillage/Leakage at Repairing and Maintenance Areas	The Office- cum-Vehicle Depot	1
•	Record of Incidents	The Office- cum-Vehicle Depot	4
•	Procedures for Disposal of Wastes	The Office- cum-Vehicle Depot	✓



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		T (*		Implementation Status		
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
L	ndscape 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	1			
•	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				\checkmark
•	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	✓			
٠	Avoidance of placing any construction materials close to the trees	All areas	✓			
٠	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				1





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Retain Tree Survey



T21



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Appendix D Calibration Certificates



深 圳 中 航 技 术 检 测 所 SHENZHEN METROLOGY & MEASUREMENT INSTITUTE OF AVIC 中国航空工业深圳特区计量测试站。 SHENZHEN METROLOGY & MEASUREMENT STATION OF CHINA AVIATION INDUSTRY 国防科技工业第一计量测试研究中心深圳计量检测站 SHENZHEN METROLOGY & MEASUREMENT STATION OF CIMM



校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No.	LX160	18319156		X16018319156	
委 托 单 位 Client	上峰检测认证有	有限公司			
地 址 Address	香港新界荃湾沙	》咀道66A号音	豪力中心19楼190	5室	
器 具 名 称 Description	声级计/Sound 1	Level Meter	15		
器 具 用 途 Usage	/				
规格型号 Model/Type	AWA5661				
制 造 单 位 Manufacturer	杭州爱华				
器 具 编 号 Serial No.	304042				
结 论 Conclusion	见校准结果/Ca:	libration			
(证书专用章)			批 准 Approved 审 核 Checked b 校 准 Calibrate	员 邵法沉	邵浊沉 刘克先 邵浊沉
委 托 日 期 Received Date	2016 年 Year	08 月 Month	12 日 Day		
校准日期 Calibration Date	2016 年 Year	OS 月 Month	12 日 Day	ZH1603476-001	
计量校准机构备案号:[] 地址:广东省深圳市福田 ADD: 9A-1B-105A, Jingson, 电话(TEL):0755-838906 网址:http://www.szca	H区车公庙泰然四路 g Building, Tairan 520 83890591	格劲松大厦9A. 4th Road, Ch 传真(F			0.): 518040

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深圳中航技术检测所

证书编号: LX16018319156

说明

Directions

1. 深圳中航技术检测所是国家法定计量检定机构,其管理体系按照JJF 1069-2012法定计量机构考核规范、 ISO/IEC 17025:2005和CNAS相关要求运行。The laboratory is the Service of Legal Metrological Verification. The laboratory has implemented management system in accordance with JJF 1069-2012 Rules for the Examination of the Service of Legal Metrological Verification, ISO/IEC 17025:2005 and CNAS related requirements. 2. 本次测量结果仅对被测件有效,所出具的数据均可溯源到国家或国际计量基准。 The measurement results relate only to the unit under test. All data issued by the laboratory are traceable to the national or international primary standards of measurement. 测量结果所陈述的测量不确定度为包含因子k=2的扩展不确定度,当不报告测量不确定度时,表示测量标准的 不确定度小于被测量误差极限的1/3。 The uncertainty reported in this document is the expanded uncertainty with a coverage factor k=2, when no uncertainty reported, the test uncertainty ratio (TUR) is less 1/3. 4. 测量结果未给出与被测件运输、使用等有关的不确定度;如需要,由用户考虑。 The quoted uncertainty does not include the uncertainty introduced by use and transport of the calibrated items. 5. 未经本所书面批准,不得部分复制此证书。 This certificate shall not be reproduced without the written approval of the issuing laboratory except in full. 对本次测量若有异议,委托方应于收到被测件之日起十五日内向本所提出。 If there is any objection concerning the measurement, the client should inform the issuing laboratory within 15 days from the date of the unit under test return to the client. 7. 本次测量的技术依据(Reference documents for the measurement): JJG188-2002《声级计检定规程》JJG188-2002《V.R. of Sound Level Meters》 8. 地点及环境条件(Place and environmental condition); 地点(Place) 温度(Temperature) 相对湿度 (Relative Humidity) 本所/Lab 22.0°C 60 % 本次测量所使用的主要计量标准器具(Major standards of measurement used in the measurement): 器具名称 编号 有效期 计量转性 Description Serial No. Due Date Metrological Characteristic 可变阻抗衰减 2017 - 3 - 31230060 U=0.20dB (k=2) 쁆 AUDTO **CALIBRATOR**声 2292007 1级 2016-11-4 校准器 MICROHPONE传 2172118 2016-11-4 U=0.3dB (k=2) 声器 函数信号发生 430778 2016-11-30 MPE: ±5E-6 뿠 猝发音发生器 123249 2017-5-9 频率MPE; ±0.1% 衰减MPE; ±0.4dB 测量放大器 089867 2016-12-29

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深圳中航技术检测所

证书编号/Certificate NO.: LX16004264156

1、外观及功能正常性检查/Appearance and function check:正常/Pass。

2、声级计指示声级/Level Calibration:

校准前示值/Indication before Calibrated: 94.0dB

校准后示值/Indication After Adjusted: 94.0dB

3、频率计权/Frequency weightings:

125

250

500

标称频率	允许下限	A计权	允许上限
Nominal frequency	Lower Limit	A-weighting	Upper Limit
(Hz)	(dB)	(dB)	(dB)
31.5	-42.9	-39.6	-35.9
63	-28.7	-27.0	-23.7
125	-18.1	-16.2	-14.1
250	-10.5	-9.0	-6.7
500	-5.1	-4.1	-1.3
1000 (ref.)	-1.4	0.0	+1.4
2000	-1.4	+1.0	+3.8
4000	-2.5	+1.6	+4.6
标称频率	允许下限	C计权	允许上限
Nominal frequency	Lower Limit	C-weighting	Upper Limit
(Hz)	(dB)	(dB)	(dB)
31.5	-6.5	-4.0	+0.5
63	-3.3	-2.4	+1.7

-2.2

-1.9

-1.9

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+1.8

+1.9

+1.9

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-1.2

-1.0

-0.6



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深圳中航技术检测所			证书编号/Certificate NO.: LX16004264:
1000 (ref.)	-1.4	0.0	+1.4
2000	-2.8	-0.1	+2.4
4000	-4.4	+1.0	+2.8

4、级线性(参考频率 1kHz)/Level linearity error(Reference frequency 1kHz) :

4.1、级程变化误差(参考频率: 1000Hz):

Level Change Error (Reference frequency:1000Hz)

标称值	允许下限	误差	允许上限
Nominal Value	Lower Limit	Error	Upper Limit
(dB)	(dB)	(dB)	(dB)
30	-1.0	+0.3	+1.0
40	-1.0	+0.2	+1.0
50	-1.0	+0.1	+1.0
60	-1.0	+0.1	+1.0
70	-1.0	+0.1	+1.0
80	-1.0	0.0	+1.0
90 (ref.)		0.0	
100	-1.0	0.0	+1.0
110	-1.0	0.0	+1.0
120	-1.0	0.0	+1.0

5、本机噪声/Residual noise: A计权/A-weighting: _ 29.0 dB;

6、单个猝发音响应(A计权)/Tone burst response (A-weighting)

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单个猝发音持续时间	猝发音 ⁽	响应(dB)/Tone	burst response	e (dB)
(ms) /Single tone burst Last time (ms)	L _{APmax} -L _A	允许范围 /Conclusion	L _{ASmax} -L _A	允许范围 /Conclusion

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深圳中航技术检测所		证书:	编号/Certific	ate NO. : LX16004264156
500	-0.2	+0.7~-0.9	-4.0	-3.3~-4.9
200	-1.0	-0.2~-1.8	-7.1	-6.6~-8.2
50	-4.2	-3.5~-6.1	-12.8	-11.8~-14.4
10	-10.4	-9.8~-12.4	-20. 2	-18.7~-22.3

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

单个猝发音持续时间 (ms) /Single tone	相邻单个猝发音持续时间 (ms) /Adjacent single	猝发音响应(dB)/Tone burst response(dB)		
burst Last time (ms)	tone burst last time (ms)	L _{aeqt} -L _a	允许范围 /Conclusion	
500	2000	-7.1	-6.2~-7.8	
200	800	-7.1	-6.2~-7.8	
50	200	-6.8	-5.7~-8.3	
10	40	-6.7	-5.7~-8.3	

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

1. 依据文件/According to: JJF1059.1-2012测量不确定度评定与表示/ JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement;

 本次测量结果的扩展不确定度/Expanded uncertainty of measured results: U=0.4dB ~1.0dB (k=2)

- ◇ 技术要求参照同类产品给出/MPE according relatived user manual:
- ◇ 参考IE61672-1-2002标准/Reference standard:IEC61672-1-2002;
- ◇ 溯源计量标准信息/Measurement Standard:

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

Electro-acoustic Measurement Standard

◇ 建议下次送校日期/Due to data: 2017-08-11

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

以下空白/End of data

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华南国家计量测试中心 广东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY





交准证书

CALIBRATION CERTIFICATE

证书编号 St Certificate No.	SD201605833		第 1 引 Page	ī,≠ of	t 8 页 f	
委托方 Client	Apex Testing & Cer 有限公司	tification	n Ltd ⊥	峰楼	测认证	
委托方地址 Add. of Client	Room 1905, 19/F Ho Road, Tsuen Wan, N				Tsui	
计量器具名称 Description	Sound Level Meter					
型号規格 Model/Type	AWA5661					
制造厂 Manufacturer	杭州爱华仪器有限公司					
出厂编号 Serial No.	304716		音编号 — upment 1	No.		
接收日期 Date of Receipt	t	2016 年 Y	09 月 M		日 D	
结论 Conclusion	符合JJG 188-2002中	1级技术要:	求			
校准日期 Date of Calibr	ation	2016年 Y	09 月 M		日 D	
批准人 Approved Signatory Z 核验 Checked by 校准 Calibrated by	家ジン		证书专 Stan			

本中心地址:中国广州市广园中路松柏东衔30号 邮政编码: 510405 电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)26296063 E-mail: scm@scm.com.cn Add: No.30, Songbai East Street, Guangyuan Middle Road, Guangzhou, Guangdong, China Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063 证书真伪查询: www.sem.com.en: www.mtpsp.com Certificate Authenticityldentify: www.sem.com.en: www.mtpsp.com

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证书编号 SSD201605833 Certificate No.	DIREC		第2页,共8 Page of	
	说	明		

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

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

2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

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

3. 本次校准的技术依据:

Reference documents for the calibration:

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

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

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

3.1X/圧地点、小児家汁;	5.	校准地应	氯、环	"境条件:	
----------------	----	------	-----	-------	--

Place and environmental conditions of the calibration: 地点 声学/振动实验室 Acoustics/Vibration Lab. 温度 (23±3) ℃ 相对湿度 (40~50) % Place Temperature R.H.

6. 被校准仪器限制使用条件:

Limiting condition of the instrument calibrated:

注: 1. 本证书校准结果只与受校准仪器有关。

2. 未经本机构书面批准,不得部分复制此证书。

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

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

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CALIBRATION

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华南国家计量测试中心 广东省计量科学研究院 SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

校准结果 RESULTS OF CALIBRATION

	持编号: SSD20 1605833 tification No.	原始记录编号: 22016 Record No.	05833 第3页,共8页 Page of
1	外观: 合格		
	Apparent inspection: Pass		
2	声级计指示声级调整:		
	Level Calibration		
	(声校准器型号: 4231	标准声压级: 94.0 dB)	
	Sound Level Calibrator Type	Standard level	
	校准前示值: 93.9 dB	校准后示值: 93.9 dB	传声器型号/编号: AWA14425/9591
	Indication before Calibrated	Indication after Adjusted	Microphone type/serial number
	definite 2.1 dec. III obtain obtain obtain		

3 频率计权:见表1、表2、表3

Frequency weightings: Showed in table 1, table2, table 3

	表1 Table 1		
标称频率(Hz)	实测值A计权(dB)	允许范围(dB)	结论
Nominal frequency	Measured Value A-weighting	Tolerance	Conclusion
10	-68.4	<i>-∞</i> ∼ -66.9	合格(Pass)
20	-50.7	-53.0 \sim -48.0	合格(Pass)
31.5	-39.7	-41.4 \sim -37.4	合格(Pass)
63	-26.3	-27.7 ~ -24.7	合格(Pass)
125	-16.3	-17.6 \sim -14.6	合格(Pass)
250	-8.7	-10.0 \sim -7.2	合格(Pass)
500	-3.3	-4.6 ~ -1.8	合格(Pass)
1000(ref.)	0.0	-1.1 ~ +1.1	合格(Pass)
2000	+1.3	-0.4 ~ +2.8	合格(Pass)
4000	+1.3	-0.6 \sim +2.6	合格(Pass)
8000	-0.4	-4.2 \sim +1.0	合格(Pass)
16000	-9.7	-23.6 \sim -3.1	合格(Pass)
20000	-21.5	.∞ ~ -5.3	合格(Pass)

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校准结果 RESULTS OF CALIBRATION

证书编号: SSD2016058 Certification No.	33 原始记录编号: Record No.	2201605833	第4页 Page	, 共 8 页 of
	表2 Table 2			
标称频率(Hz)	实测值C计权(dB)	允许范围(dB)	结论	
Nominal frequency	Measured Value C-weighting	Tolerance	Conclusion	
10	-15.7	.∞ ~ =10.8	合格(Pass)	
20	-6.6	-8.7 ~ -3.7	合格(Pass)	
31.5	-3.2	-5.0 \sim -1.0	合格(Pass)	
63	-0.9	-2.3 \sim +0.7	合格(Pass)	
125	-0.2	-1.7 \sim +1.3	合格(Pass)	
250	0.0	-1.4 ~ +1.4	合格(Pass)	
500	0.0	-1.4 \sim +1.4	合格(Pass)	
1000(ref.)	0.0	-1.1 \sim +1.1	合格(Pass)	
2000	-0.1	-1.8 \sim +1.4	合格(Pass)	
4000	-0.5	$-2.4 \sim \pm 0.8$	合格(Pass)	
8000	-2.3	-6.1 \sim -0.9	合格(Pass)	
16000	-11.6	-25.5 \sim -5.0	合格(Pass)	
20000	-23.4	<u>-</u> ∞ ~ -7.2	合格(Pass)	
	表3 Table 3			
标称频率(Hz)	实测值Z计权(dB)	允许范围(dB)	结论	
Nominal frequency	Measured Value Z-weighting	Tolerance	Conclusion	
10	-1.3	$-\infty \sim +3.5$	合格(Pass)	
20	-0.4	-2.5 \sim +2.5	合格(Pass)	
31.5	-0.2	-1.5 \sim +1.5	合格(Pass)	
63	-0.1	-1.5 \sim +1.5	合格(Pass)	
125	-0.1	-1.5 \sim +1.5	合格(Pass)	
250	0.0	-1.4 \sim +1.4	合格(Pass)	
500	0.0	-1.4 \sim +1.4	合格(Pass)	
1000(ref.)	0.0	-1.1 ~~ +1.1	合格(Pass)	
2000	0.0	-1.6 \sim +1.6	合格(Pass)	
4000	0.0	-1.6 \sim +1.6	合格(Pass)	
8000	0.0	-3.1 \sim +2.1	合格(Pass)	
16000	0.0	-17.0 \sim +3.5	合格(Pass)	
20000	0.0	.∞ ~ +4.0	合格(Pass)	

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校准 CALEBRATION



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校准结果 RESULTS OF CALIBRATION

证书编号: SSD201605833	原始记录编号: 2201605833	第5页,共8页
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4 级线性(参考频率 1 kHz)

Level linearity error (Reference frequency 1 kHz)

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

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

	He he	茭4 Table 4		
标准值(dB)	指示值(dB)	误差(dB)	允差(dB)	结论
Reference Value	Indication Value	Error	Tolerance	Conclusion
25	25.4	+0.4	± 0.7	合格(Pass)
30	30.2	+0.2	± 0.7	合格(Pass)
40	40.1	+0.1	± 0.7	合格(Pass)
50	50.1	+0.1	± 0.7	合格(Pass)
60	60.1	+0.1	± 0.7	合格(Pass)
70	70.0	0.0	± 0.7	合格(Pass)
80	80.1	+0.1	± 0.7	合格(Pass)
90(ref.)	90.0	0.0		合格(Pass)
100	99.9	-0.1	± 0.7	合格(Pass)
110	110.0	0.0	± 0.7	合格(Pass)
120	120.0	0.0	± 0.7	合格(Pass)

4.2 参考级量程

Reference range 起始点指示声级: 90 dB Start point 起始点以上间隔 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB above start point 起始点以下间隔 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB below start point #46 (2) = 2

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

4.3 其他级量程

Other range

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校准结果

RESULTS OF CALIBRATION 证书编号: SSD201605833 原始记录编号: 2201605833 第6页,共8页 Certification No. Record No. Page of 起始点指示声级: 90 dB Start point 起始点以上间隔 10 dB点的最大误差: 0.1 dB Maximum Error for each 10 dB above start point 起始点以下间隔 10 dB点的最大误差: 0.2 dB Maximum Error for each 10 dB below start point 上限以下 5 dB内的 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB within 5 dB below upper limit 下限以上 5 dB内的 1 dB点的最大误差: 0.1 dB Maximum Error for each 1 dB within 5dB above lower limit 4.4 相对参考级量程的级程控制器最大误差: 0.0 dB Maximum Error for different range 以"25 dB~120 dB"为参考量程 Reference range with "25 dB~120 dB" 以90.0 dB为参考点(0 dB)转向45 dB~140 dB量程误差: 0.0 dB Error of indication from 90.0 dB reference point (0 dB) to 45 dB~140 dB another range 5 本机噪声: Residual noise A计权: <20 dB 结论: 合格(Pass) A-weighting Conclusion 6 F和S时间计权: Time weightings F/S 衰减速率; F: >25 dB/s (允许范围: ≥25 dB/s); Attenuation rate Tolerance S: 4.4 dB/s (允许范围; 3.4 dB/s~5.3 dB/s); Tolerance

F和S差值: 0.0 dB Dispersion F/S

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校准结果 RESULTS OF CALIBRATION

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7 猝发音响应(A计权): 见表5

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

			表5 Table 5			
单个猝发音			猝发音	响应/dB		
持续时间/ms			Tone burst	response/dB		
Single tone burst	LAFmax" LA	允许范围	结论	LASmax" LA	允许范围	结论
Last time/ms		Tolerance	Conclusion		Tolerance	Conclusion
500	-0.1	+0.7~-0.9	合格(Pass)	-3.7	-3.3~-4.9	合格(Pass)
200	-1.0	-0.2~-1.8	合格(Pass)	-7.0	-6.6~-8.2	合格(Pass)
50	-5.0	-3.5~-6.1	合格(Pass)	-12.7	-11.8~-14.4	合格(Pass)
10	-11.3	-9.8~-12.4	合格(Pass)	-19.6	-18.7~-22.3	合格(Pass)

8 过载指示:

Over loading indication

误差: 0.6 dB(允许范围: ≤1.8 dB) 结论: 合格(Pass)

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

Error Tolerance

9 峰值C声压(500 Hz); 见表6

Conclusion

Peak C sound level: Showed in table 6 表6 Table 6

	seo rabie o		
试验信号中的周期数目 Periods number in test signal	(L _{Cpeak} -L _C) /dB	允差/dB MPE	结论 Conclusion
一个周期 One period	3.6	$2.1\sim 4.9$	合格(Pass)
正半个周期	2.2	$1.0\sim3.8$	合格(Pass)
Positive half period 负半个周期	2.2	$1.0 \sim 3.8$	合格(Pass)
Minus half period			

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校准 CALEBRATION



校 准 结 果

RESULTS OF CALIBRATION

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

```
说明:
```

Note:

1 声压级测量结果扩展不确定度;

Expanded uncertainty of measurement in Sound Pressure Level Calibration:

```
10 \text{ Hz} \sim 200 \text{ Hz}, U=0.5 dB, k = 2
```

```
250 Hz~400 Hz ,U=0.4 dB, k=2
```

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

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

- 12.5 kHz~20 kHz,U=1.0 dB, k=2
- (依据JJF 1059.1-2012 測量不确定度评定与表示)

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

2 建议校准周期不超过1年。

The interval of calibration advised within one year.

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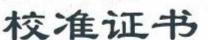


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CALIBRATION CERTIFICATE

征 书 编 号 Certificate No.	L	X170007	7701	56			x17000770156	
委 托 单 位 Client	上峰检测认	い证有限	2公司	1			(17000770156	
地 址 Address	香港荃湾油	≨盛路3·	号TM	L广场1	0楼D	X6A室		er S
器 具 名 称 Description	声校准器/:	Sound (Cali	brator	8			
器 具 用 途 Jsage	/							
规 格 型 号 Model/Type	QC-10							
制 造 单 位 Manufacturer	QUEST							
器 具 编 号 Serial No.	056-990/Q	1901018	83					
结 论 Conclusion	见校准结果	l/Calil	brat	ion			1. 6	
						批 准 人 Approved by	邵法沉	部独沉
						审核员	ZIEN.	
(证书专用章)						Checked by	24 Wh	刘克先
(证书专用章)							动植光	刘克先 邵浊沉
(证书专用章) 委 托 日 期 Received Date	2017	年 Year	01	月 Month	05	Checked by 校准员	日本	natere:

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邮政编码 (POST NO.): 51804 a83890591#126.com

第1页 共3页 Page 1 of 3

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证书编号: LX17000770156

深圳中航技术检测所

说 明

			Directions
ISO/IEC 17025 Verification.	:2005和CNAS相 The laborato Examination	关要求运行。The ry has implement of the Service of	为,其管理体系按照JJF 1069-2012法定计量机构考核规范、 laboratory is the Service of Legal Metrological ted management system in accordance with JJF 1069-2013 of Legal Metrological Verification, ISO/IEC 17025:2005
2. 本次測量结果 The measurement	Q对被测件有 nt results re	效,所出具的数据 late only to th	我阿溯源到国家或国际计量基准。 e unit under test. All data issued by the laboratory ar l primary standards of measurement.
	述的测量不确	定度为包含因子k	=2的扩展不确定度,当不报告测量不确定度时,表示测量标准
	* ***********************************		is the expanded uncertainty with a coverage factor k=2 certainty ratio (TUR) is less 1/3.
	certainty doe		的不确定度; 如需要, 由用户考虑。 he uncertainty introduced by use and transport of the
5. 未经本所书面 This certifica except in full	ate shall not		without the written approval of the issuing laboratory
6. 对本次测量者 If there is an	有异议,委托 ny objection	concerning the I	中之日起十五日內向本所提出。 measurement, the client should inform the issuing f the unit under test return to the client.
7. 本次测量的技	表术依据(Refer	ence documents	for the measurement):
JJG 176-2005	(声校准器)]]	G 176-2005 《V.	R. of Sound Calibrators)
8. 地点及环境条 地点(Place)		environmental perature)	condition); 相对湿度(Relative Humidity)
本所/Lab	22.0	00	60 %
9. 本次测量所包	用的主要计量	标准器具(Major	standards of measurement used in the measurement):
器具名称	编号	有效期	计量特性
Description	Serial No.	Due Date	Metrological Characteristic
AUDIO CALIBRATOR声 校准器	2292007	2017-10-13	1級
MICROHPONE传 声器	2172118	2017-10-13	U=0.3dB (k=2)
音频分析仪	683012D122	2017-12-12	MPE:±1dB(20Hz~20kHz) 电平:±0.2% MPE:±2dB(20kHz~100kHz) 失真:±1.4%
测量放大器	089867	2017-01-29	/

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1	外观及功能正常性检查:	正常	R. M. Lands
deche:	Visibility and function ins		
	and the second second		
2	声压级校准/Sound pressure 1	evel calibration:	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		声压级差的绝对值/
	规定声压级/Provisions of	测量声压级/Measurement	The absolute value of
	sound pressure level (dB)	of sound pressure level(dB)	sound pressure level difference(dB)
	114	113. 9	0.1
3	频率校准/Frequency calibrat	ion:	
	规定频率(Hz)	测量频率(Hz)	频率误差(%)
		assigned frequency	frequency error
	1000	1000. 0	0.0
4	失真度校准/Distortion calib	oration:	
	规定频率(Hz)	规定声压级/Provisions of sound pressure level	总失值(%)
	assigned frequency	(dB)	Distortion
	1000	114	1.10
附注:	◇ 关于测量结果不确定度的说	:明:	
Remark:	Directions of uncertainty i	n measurement:	
	1. 依据文件: JJF1059. 1-2012	测量不确定度评定与表示;	
	Ref. document: JJF1059. 1-201 measurement;	2 Evaluation and Expressio	n of uncertainty in
	2. 本次测量结果的扩展不确定[夏 :	
	Expanded uncertainty of the	measurement:	
	声压级: U=0.3dB;频率: U _{rel} =	0.1%;失真: U _{rel} =0.5% (<i>k=</i> 2)	
	◇ 建议下次送校日期/Next Ca	libration: 2018-01-04	
	以下空白	/End of Data	

第3页 共3页 Page 3 of 3

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



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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	ata of Monitoring												1/4/	2017											
Mo	mitoring Location												NSR1	(EP)											
Descrip	ption of the Location											Sir	Ellis Kado	me Sec Sch	lool										
Sou	and Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
	del and Serial No.)											Cali	brator: QC	10 S/N056	990										
Weather	Status												Su	ıny											
Condition	Wind Strength (m/s)	<5E)	<5(E)	<5(E)	<(E)	<(E)	<5E)	<(E)	<(E)	<6E)	<5Œ)	<5(E)	<5Œ)	<5Œ)	<5Œ)	<\$€	<(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5E)	<(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)	66.2	65.4	66.0	66.2	66.3	66.4	66.6	67.2	66.5	66.4	65.2	65.8	66.3	66.7	67.1	66.2	66.3	66.7	66.5	65.2	65.6	66.4	66.5	65.1
	L90 dB(A)	55.7	56.2	55.3	55.5	56.2	56.7	55.8	54.5	57.3	57.1	55.4	55.9	56.1	56.8	57.4	56.5	57.1	56.8	56.4	56.2	55.1	55.3	56.0	55.8
Measured Noise	Leq dB(A)	64.0	63.5	63.9	64.4	64.5	64.0	64.6	65.0	64.7	64.2	63.6	63.7	64.1	64.8	65.0	64.6	64.1	64.8	64.2	63.9	63.5	64.7	64.1	63.2
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												56	.2											
	Leg (30 min)												64	.2											
Noise Lir	mit Level, Leq, (dB(A))										70	iB(A) for s	chool / 65 o	IB(A) durir	g examinat	ion									
Site Co	onstruction Activities												Sheet Pili	ng Works											
Other Noise S	ources During Measurement											Hu	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

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

	ta of Monitoring												1/4/.												
Mo	nitoring Location												NSR7	(EP)											
Descrip	ption of the Location												Fu Yur	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S											
bound Dever in	calod (model and berna 140.)											Cali	brator: QC-	10 S/N056	-990										
Weather	Status												Su	nny											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$€)	<\$(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)	71.5	70.6	71.4	72.5	73.6	72.7	73.0	74.5	74,4	74.1	73.6	73.2	74.8	74.1	74.3	74.7	73.5	73.4	73.6	74.9	74.2	73.3	72.5	71.9
	L90 dB(A)	63.2	63.8	64.1	63.6	63.9	64.2	64.8	65.6	65.9	65.1	66.3	65.8	65.5	66.1	65.8	65.3	65.7	66.2	66.4	66.9	66.4	65.7	65.8	65.5
Measured Noise	Leg dB(A)	69.2	68.7	69.5	70.2	71.3	70.8	71.9	72.4	72.6	72.0	71.7	71.9	72.5	72.8	72.0	72.2	71.9	71.6	71.7	72.3	72.4	71.5	70.2	69.8
Level (dB(A))	L10 (Average)												73	.5											
	L90 (Average)												65	.4											
	Leg (30 min)												71	.5											
Noise Lin	nit Level, Leq, (dB(A))												75d)	B(A)											
Site Co	onstruction Activities												Sheet Pili	ng Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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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												7/4/	2017											
Mo	nitoring Location												NSR1	(EP)											
Descrip	ption of the Location											Sir	Ellis Kado	one Sec Sch	lool										
Sou	nd Level Method											Sound leve	el meter : A	WA5661 S	/N304042										
(Mox	del and Serial No.)											Calif	brator: QC	10 S/N056-	-990										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<(E)	<(E)	<(E)	<5E)	< (E)	<(E)	<d⊕< td=""><td><5Œ)</td><td><5(E)</td><td><5®</td><td><5E)</td><td>d€)</td><td>< ≤œ</td><td>-SE)</td><td><(E)</td><td><(E)</td><td><\$€)</td><td><\$€)</td><td><(E)</td><td>(5E)</td><td><5E)</td><td><(E)</td></d⊕<>	<5Œ)	<5(E)	<5®	<5E)	d€)	< ≤œ	-SE)	<(E)	<(E)	<\$€)	<\$€)	<(E)	(5E)	<5E)	<(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	65.7	66.2	66.4	66.8	67.1	66.9	66.5	66.6	67.3	66.2	66.8	66.7	66.3	66.1	65.5	66.0	66.2	66.1	66.8	66.5	66.9	65.4	65.2
	L90 dB(A)	55.6	55.1	56.8	56.2	56.7	56.9	57.1	57.3	56.2	56.8	57.5	57.9	56.8	56.6	57.4	57.9	58.1	58.2	57.0	56.8	57.1	56.4	56.9	56.2
Measured Noise	Leg dB(A)	63.9	63.5	64.1	64.6	64.9	65.0	64.8	64.2	64.7	65.0	64.9	64.5	64.2	64.8	64.3	63.7	63.9	64.7	64.5	64.8	64.3	64.1	63.7	63.8
Level (dB(A))	L10 (Average)												66												
	L90 (Average)												57	.0											
	Leq (30 min)												64	.4											
Noise Lir	nit Level, Leq, (dB(A))										70x	B(A) for sc	:hool / 65 (iB(A) durin	ig examinat	ion									
Site Co	onstruction Activities												Sheet Pili	ng Works											
Other Noise S	ources During Measurement											Hun	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

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												7/4/	2017											
	onitoring Location												NSR												
														1 House											
Descrip	ption of the Location											0			0.000.001.2										
Sound Level M	fethod (Model and Serial No.)													WA5661 S											
Weather	Status											Cuit		ne											
Condition	Wind Strength (m/s)	<5(E)	<\$(E)	<5(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$(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)	70.5	70.9	71.4	71.6	72.5	72.9	73.2	73.8	73.4	74.1	73.3	73.8	73.7	74.5	73.6	73.2	72.2	72.5	73.1	73.5	73.3	71.8	71.6	71.3
	L90 dB(A)	63.7	64.0	64.6	65.2	65.7	65.3	64.8	65.9	66.1	66.3	65.8	65.0	65.3	65.8	66.3	66.4	65.2	65.7	65.8	65.2	65.0	65.1	64.4	64.1
Measured Noise	Leq dB(A)	68.6	68.9	69.5	69.7	70.6	70.9	71.4	71.8	71.6	72.1	71.6	71.9	72.0	72.3	71.7	71.3	70.5	70.8	71.2	71.6	71.0	69.7	69.5	69.9
Level (dB(A))	L10 (Average)												72	.9											
	L90 (Average)												65	3											
	Lea (30 min)												71	.0											
Noise Lir	mit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Sheet Pil:	ng Works											
Other Noise S	Sources During Measurement											Hur	nan Activit	ies and Veh	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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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												13/4/	2017											
Mc	nitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadox	me Sec Sch	col										
Sou	ind Level Method											Sound leve	l meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Cali	brator: QC-	10 S/N056-	990										,
Weather	Status												Su	iny											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<(E)	< (E)	<5(E)	<5(E)	<5E)	<5Œ)	<5(E)	<d€)< td=""><td><5(E)</td><td><(E)</td><td><(E)</td><td><5(E)</td><td><5(E)</td><td><(E)</td><td><5(E)</td><td><5(E)</td><td><(E)</td></d€)<>	<5(E)	<(E)	<(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<(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)	66.2	65.5	65.8	65.3	66.1	66.5	66.7	67,4	66.8	66.5	66.3	66.7	66.9	67.2	66.3	66.5	66.4	66.9	66.6	66.7	65.4	65.6	66.2	66.1
	L90 dB(A)	55.2	55.9	56.1	57.7	57.9	57.0	56.2	56.8	56.9	56.2	56.0	56.7	56.9	56.4	56.7	56.3	55.8	55.5	56.4	56.1	57.5	57.3	57.7	57.9
Measured Noise	Leg dB(A)	64.0	63.6	63.9	63.7	64.5	64.2	64.8	65.0	64.9	64.6	64.0	64.3	64.8	65.0	64.7	64.3	64.1	64.7	64.9	64.2	63.7	63.9	64.0	64.5
Level (dB(A))	L10 (Average)			•									66	4						•					
	L90 (Average)												56	1											
	Leg (30 min)												64	4											-
Noise Lir	mit Level, Leq, (dB(A))										70	iB(A) for s	:hool / 65 d	B(A) durin	g examinat	ion									
Site Co	onstruction Activities												Sheet Pili	ng Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

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

<u> </u>																									
Da	ta of Monitoring												13/4												/
Mo	mitoring Location												NSR'	(EP)											
Descrip	ption of the Location												Fu Yur	House											
Cound Lough M	ethod (Model and Serial No.)											Sound lev	el meter : A	WA5661 S	/N304716										
Sound Level IV	eulod (Model and Serial No.)											Cali	brator: QC	10 S/N056	-990										
Weather	Status												Su	iny											
Condition	Wind Strength (m/s)	<\$(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$€)	<5(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<(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	70.5	70.4	71.3	71.5	72.0	72.3	72.9	72.3	73,4	73.6	73,7	74.2	74,7	73.1	73.8	73.9	74.1	73.2	73.5	74.2	74.1	73.3	72.8
	L90 dB(A)	64.5	64.9	65.1	65.6	65.2	64.6	64.8	65.3	65.7	65.9	65.0	65.3	65.8	66.2	65.2	65.7	65.0	64.8	64.4	65.2	65.8	65.0	64.7	64.3
Measured Noise	Leg dB(A)	69.3	68.9	68.7	69.1	69.5	69.9	70.3	70.8	70.4	71.1	71.3	71.8	72.1	72.3	71.5	71.7	71.9	72.0	71.3	71.6	71.9	72.0	71.2	70.8
Level (dB(A))	L10 (Average)												73	.1											
	L90 (Average)												65	.2											
	Leg (30 min)												71	.0											
Noise Lir	nit Level, Leq, (dB(A))												75d)	B(A)											
Site Co	onstruction Activities												Sheet Pili	ng Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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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

														2010											
	ata of Monitoring													2017											
Mo	onitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	ool										
So	und Level Method											Sound leve	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Cali	brator: QC-	10 S/N056-	990										
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<(E)	<(E)	<(E)	<(E)	<(E)	<(E)	< (E)	<5(E)	<5(E)	< (E)	<5(E)	<5(E)	< ≤œ	<(E)	<\$(E)	<(E)	<(E)	<(E)	<(E)	<(E)	<5(E)	<(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)	65.5	66.1	66.3	66.8	65.9	66.4	66.7	67.2	66.5	66.2	66.9	66.2	65.5	65.4	66.1	67.6	66.9	66.7	66.1	67.3	66.4	65.1	65.3	66.8
	L90 dB(A)	56.4	56.9	57.3	57.1	56.2	56.9	57.3	56.4	55.8	56.5	56.2	56.8	57.4	56.1	57.3	56.2	55.9	55.6	56.7	56.1	57.4	56.8	57.2	57.5
Measured Noise	Leq dB(A)	63.2	63.9	64.6	64.7	63.8	64.5	64.9	65.0	64.6	64.0	64.7	64.3	63.8	63.7	64.9	65.0	64.7	64.4	64.8	65.0	64.3	63.6	63.7	64.1
Level (dB(A))	L10 (Average)												66	.4											
	L90 (Average)												56	.7											
	Leq (30 min)												64	.4											
Noise Li	mit Level, Leq, (dB(A))										70k	IB(A) for s	chool / 65 o	iB(A) durin	g examina	ion									
Site C	onstruction Activities		Sheet Piling Works																						
Other Noise S	Sources During Measurement		Human Activities and Vehicle																						

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

Noise Monitoring Record Sheet

Contract No: SS D505

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

D	ita of Monitoring												10/4	2017											
	mitoring Location												NSR'												
Descri	ption of the Location												Fu Yur	1 House											
Sound Level M	lethod (Model and Serial No.)													WA5661 S 10 S/N056-											
Weather	Status				_							Cuit		ne											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	්(E)	<\$(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)	72.5	71.6	71.7	72.6	72.3	73.4	73.5	74,7	74.6	73.6	73.8	73.1	72.5	73.7	73.3	72.4	72.8	73.3	73.2	74.1	74.0	74.5	73.5	71.4
	L90 dB(A)	64.5	64.9	64.2	65.1	65.3	64.8	64.9	65.2	65.0	66.2	66.5	65.7	64.3	64.7	65.1	64.5	64.9	65.3	65.7	66.1	66.3	66.7	66.0	65.2
Measured Noise	Leg dB(A)	70.3	69.7	69.3	70.5	70.8	71.2	71.7	72.0	72.3	71.5	71.9	71.4	70.9	71.3	71.4	70.7	70.9	71.4	71.6	72.5	72.8	72.2	71.3	69.9
Level (dB(A))	L10 (Average)									-			73	.3						-					
	L90 (Average)												65	.4											
	Leg (30 min)												71	.3											
Noise Lin	mit Level, Leq, (dB(A))												75d	B(A)											
Site C	onstruction Activities		Sheet Piling Works																						
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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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												25/4	2017											
Mo	nitoring Location												NSR1	(EP)											
Descrip	ption of the Location											Sir	Ellis Kado	one Sec Sch	nool										
Sou	ind Level Method											Sound leve	el meter : A	WA5661 S	JN304042										
(Mo	del and Serial No.)											Cali	brator: QC	10 S/N056	-990										
Weather	Status												Clo	udy											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<5E)	<(E)	<(E)	<5E)	<(E)	<(E)	< (E)	<5(E)	<5(E)	< CE	<5(E)	<(E)	<d⊕< td=""><td><(E)</td><td><5(E)</td><td><(E)</td><td><5(E)</td><td><(E)</td><td><(E)</td><td><5(E)</td><td><5(E)</td><td><(E)</td></d⊕<>	<(E)	<5(E)	<(E)	<5(E)	<(E)	<(E)	<5(E)	<5(E)	<(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)	64.6	66.2	66.5	65.1	65.6	66.7	66.3	67.4	66.5	66.1	66.2	66.7	67.6	66.8	66.9	65.4	65.3	66.1	66.2	65.7	65.5	66.0	66.3	65.1
	L90 dB(A)	55.3	55.8	56.4	56.9	57.4	57.6	56.3	56.1	57.8	57.9	56.0	56.3	57.2	57.4	57.8	57.1	56.8	57.7	57.2	56.9	56.2	57.2	57.6	56.5
Measured Noise	Leg dB(A)	62.7	64.1	64.4	63.5	63.9	64.1	64.6	65.0	64.9	64.5	64.7	64.9	65.0	64.3	64.7	63.5	63.9	64.1	64.4	63.8	63.4	64.6	64.2	63.8
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												56	.9											
	Leg (30 min)												64	.2											
Noise Lir	nit Level, Leq, (dB(A))										70x	lB(A) for s	chool / 65 (iB(A) durin	ig examina	ion									
Site Co	onstruction Activities		Sheet Piling Works																						
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	ticle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

Noise Monitoring Record Sheet

Contract No: SS D505

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

D.	the of Manhadra												054	0017											
	ata of Monitoring												25/4												
Mo	mitoring Location												NSR'	(EP)											
Descri	ption of the Location												Fu Yur	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S											
Weather	Status											Cau	Clo		770										
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)	<\$(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)	72.2	71.5	71.7	72.6	72,9	71.6	72.4	73.1	73.5	74.2	72.9	72.5	73.6	73,4	73.8	74.0	74.5	73.3	73.9	72.1	73.3	72.3	71.4	71.8
	L90 dB(A)	64.8	64.2	64.6	65.0	65.8	64.6	64.9	65.8	65.1	64.3	65.8	64.7	66.3	66.5	66.9	67.4	67.3	66.9	66.2	66.3	66.8	65.4	64.8	64.3
Measured Noise	Leg dB(A)	70.2	69.5	69.7	70.3	70.9	69.8	70.6	71.4	71.9	72.1	70.5	70.9	71.2	71.5	71.9	72.5	72.0	71.3	71.7	70.3	71.4	70.5	69.6	69.1
Level (dB(A))	L10 (Average)												72	.9											·
	L90 (Average)												65	.1											
	Leg (30 min)												71	.0											
Noise Lin	mit Level, Leq, (dB(A))												75d	B(A)											
Site C	onstruction Activities		Sheet Piling Works																						
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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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

	ta of Monitoring													/2017											
Mo	nitoring Location												NSR1	1 (EP)											
Descrip	ption of the Location											Sir	Ellis Kado	one Sec Sch	lool										
Sou	nd Level Method											Sound leve	el meter : A	WA5661 S	/N304042										
(Mox	tel and Serial No.)											Cali	brator: QC	-10 S/N056	-990										
Weather	Status												Su	nny											
Condition	Wind Strength (m/s)	୍ ଏ(E)	<(E)	<\$€)	<(E)	<(E)	<5E)	<(E)	<(E)	<d⊕< td=""><td><5(E)</td><td><5Œ)</td><td><5€</td><td><5Œ)</td><td>< 5(E)</td><td>< ≤®</td><td>< (E)</td><td><5(E)</td><td><(E)</td><td><\$€)</td><td><\$€)</td><td><(E)</td><td><(E)</td><td><5(E)</td><td><(E)</td></d⊕<>	<5(E)	<5Œ)	<5€	<5Œ)	< 5(E)	< ≤®	< (E)	<5(E)	<(E)	<\$€)	<\$€)	<(E)	<(E)	<5(E)	<(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)	65.1	65.3	66.8	66.9	67.2	66.4	66.1	67.3	66.9	66.5	66.9	66.3	66.7	67.7	66.3	66.5	66.4	65.8	65.9	66.3	66.8	67.7	66.0	65.2
	L90 dB(A)	55.1	55.6	56.2	56.7	55.8	55.4	56.9	56.3	55.8	55.9	56.4	56.1	56.0	57.5	57.1	56.8	56.9	57.8	57.1	57.3	56.7	56.4	56.2	55.9
Measured Noise	Leg dB(A)	63.5	63.2	64.0	64.5	65.0	64.6	64.9	65.3	64.7	64.5	64.9	64.0	64.8	65.0	64.6	64.4	64.0	63.7	63.9	64.5	64.7	65.0	64.5	63.7
Level (dB(A))	L10 (Average)												66	i.5											
	L90 (Average)		56.5 64.4																						
	Leg (30 min)																								
Noise Lin	nit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	onstruction Activities		Shote You Shote You Shote Shot																						
Other Noise Sc	ources During Measurement											Hur	nan Activit	ies and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017

Noise Monitoring Record Sheet

Contract No: SS D505

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

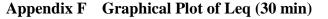
D	the state of the s												0044	0017											
	ata of Monitoring												28/4												
Mo	onitoring Location												NSR'	(EP)											
Descri	ption of the Location												Fu Yu	House											
												Sound lev	el meter : /	WA5661 S	/N304716										
Sound Level M	fethod (Model and Serial No.)											Cali	brator: OC	10 S/N056	.000										
Weather	Status											Can		10 0/11020	770										
	Wind Strength (m/s)	<5(E)	<(E)	<5(E)	<5Œ)	<5(E)	<5Œ)	<5(E)	<(E)	< (E)	<5(E)	<5(E)	<50	<5Œ)	<5Œ)	⊲œ	<4E)	<5Œ)	<5(E)	<5(E)	<5(E)	<5(E)	<5Œ)	<5(E)	<(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)	69.9	70.1	70.7	71.3	71.9	72.5	72.9	72.8	73.2	73.5	73.8	74,4	74.3	74.8	73.6	73.5	73.9	74.2	73.5	74.6	73.4	72.5	71.8	71.3
	L90 dB(A)	62.6	62.7	63.3	63.8	64.1	64.8	64.9	65.1	65.6	65.8	64.9	64.3	64.7	65.8	65.3	65.6	65.7	66.2	65.9	66.8	66.2	65.4	64.9	65.3
Measured Noise	Leg dB(A)	67.8	67.9	68.4	69.2	69.7	70.5	70.8	70.9	71.1	71.7	71.9	72.3	72.0	72.4	71.8	71.4	71.6	72.1	71.7	72.3	71.3	70.6	69.7	69.3
Level (dB(A))	L10 (Average)												73	.1											
	L90 (Average)												65	.1											
	Leg (30 min)												71	.0									-		-
Noise Li	mit Level, Leq, (dB(A))												75d	B(A)											
Site C	onstruction Activities												Sheet Pili	ng Works											_
Other Noise S	Sources During Measurement											Hu	nan Activit	ies and Veh	iicle										

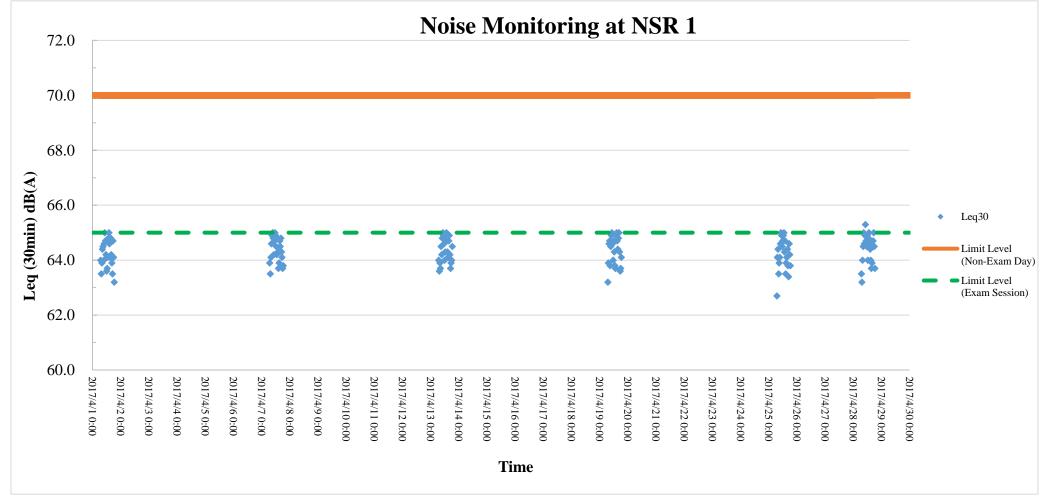
	Name	Signature	Date
Recorded by	Mary Yiu	2	30/4/2017
Checked by	Calvin Lui	afri	30/4/2017



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Remarks:

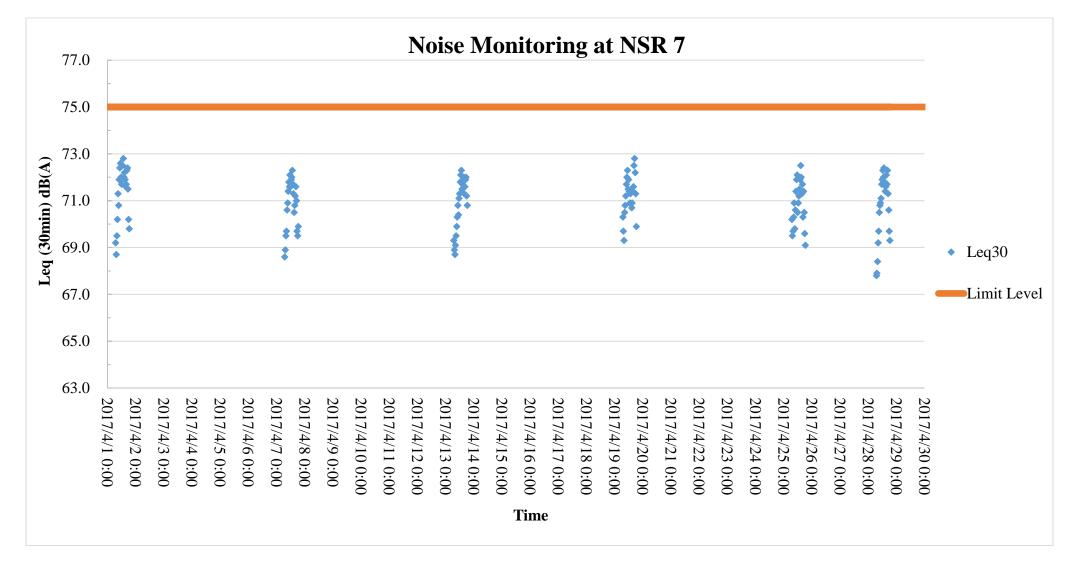
Examation on 7/4/2017 & 25/4/2017 and no exceedance 65 dB(A) was found.

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Appendix G Monitoring Schedule

Impact Monitoring Schedule (April 2017) [i.e. Reporting Period]

						April 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
2	3	4	5		7 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	8
9	10	11	12	13 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	14	15
16	17	18	19 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900		21	22
23	24	25 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	26		28 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	29
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 (May 2017)

						May 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	3	4	5	6 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
7	8	9	10		12 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	13
14	15	16	17	18 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	19	20
21	22	23	24 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	25		27 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
28	29	30	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 (June 2017)

						June 2017
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 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
11	12	13	14	15	16 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	17
18	19	20	21	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	

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 (July 2017)

						July 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	5	6	7	8
9	10 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	11	12	13		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	27 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	28	29
30	31					

Remarks: IN – Impact Noise Monitoring

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

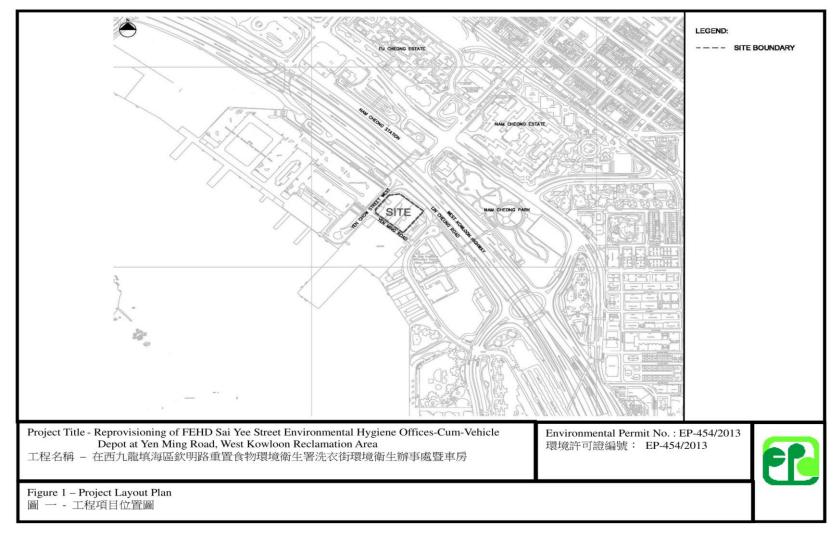
NSR 7 - Fu Cheong Estate Fu Yun House





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Appendix H Project Layout

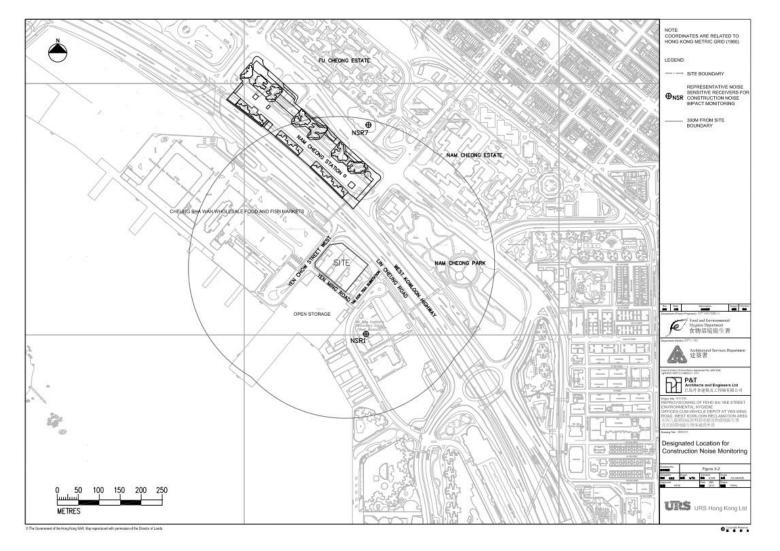






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Appendix I Location of the Impact Monitoring Locations





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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.

Reporting Period	Received Date			Cu	mulative Statistics	
		Complaints	Notifications of summons	Successful prosecutions	Туре	Status
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		

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



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Appendix L Monthly Waste Flow Table

MA P3 ConstructionWaste Management Plan

MA 11 Construciton Waste Reduction

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

Record by: China Road and Bridge Corporation 2017

Year of Record:

Monthly Waste Flow Table

DD.MM.YY	Total	Total		Act	ual Quant	ities of Inert C	&D Mater	rials Gene	rated Mon	thly		Actua	l Quantities	s of C&D M	aterials G	enerated M	lonthly
	Quantity Generated	Quantity Generated	Exca	vated Mate	rials		No	n-excavat	ed Materia	als		Metals	Metals	Paper /	Plastics	Chemical	Other, e.g.
		(Excluded Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Landfill	Disposed in Sorting Facilities	(steel bar / metal strip) ⁽¹⁾	(aluminum can) ⁽¹⁾	cardboard packaging (1)	(1) & (4)	waste (wasted lubricant oil/oil container)	general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
	a1	a2	b	b	b	с	d	е	f	g	h	i	j	k	1	m	n
6-Apr-17	2.40	2.40	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	2.40
7-Apr-17	113.90	0.00	113.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Apr-17	8.75	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	2.30
13-Apr-17	348.80	0.00	348.80	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
18-Apr-17	47.50	2.90	44.60	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	2.90
19-Apr-17	120.70	0.00	120.70	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
20-Apr-17	303.20	0.00	303.20	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
21-Apr-17	289.40	0.00	289.40	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
22-Apr-17	512.87	10.07	502.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	3.60
24-Apr-17	151.00	0.00	151.00	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	0.00
25-Apr-17	331.60	0.00	331.60	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
Total	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

Total C&D waste generated 2230.12 tonnes a1=b+c+d+e+f+g+h+i+j+k+l+m+n Total C&D waste generated (excluded excavated materials) 24.12 tonne a2=c+d+e+f+g+h+i+j+k+l+m+n Total recycled C&D waste 12.92 tonne a3=c+d+e+i+j+k+l 0.54 % % of recycled C&D waste for BEAM Plus MA11 a4=a3/a2 x 100%

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

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

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MA P3 ConstructionWaste Management Plan

MA 11 Construciton Waste Reduction

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

Record by: China Road and Bridge Corporation 2017

Year of Record:

Overall Summary Waste Flow Table

DD.MM.YY	Total	Total		Act	ual Quanti	ties of Inert C	&D Mate	rials Gene	rated Mon	ithly		Actua	Quantities	of C&D M	aterials G	enerated M	onthly
	Quantity Generated	Quantity Generated	Exca	vated Mate	rials		No	n-excavat	ed Materia	als		Metals	Metals	Paper /	Plastics	Chemical	Other,
	Contrated	(Excluded Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Landfill	Disposed in Sorting Facilities	(steel bar / metal strip) ⁽¹⁾	(aluminum can) ⁽¹⁾	cardboard packaging (1)	(1) & (4)	waste (wasted lubricant oil/oil container)	e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in	(in '000kg)	(in	(in	(in '000kg)	(in '000kg)	(in '000kg)	(in	(in '000kg)	(in '000kg)	(in	(in '000kg)	(in
	a1	a2	b	b	b	С	d	е	f	g	h	i	j	k		m	n
Mar-16	36.48	4.58	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	2.00
Apr-16	9.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.20
May-16	4.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
Jun-16	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20
Jul-16	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80
Aug-16	109.80	0.50	109.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Sep-16	659.70	8.10	651.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
Oct-16	1280.90	1.50	1279.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
Nov-16	1463.50	4.30	1459.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30
Dec-16	2590.32	5.22	2585.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	3.50
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
Total	20584.92	97.52	20487.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.22	0.00	0.00	0.00	0.00	80.30

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

20584.92 tonnes 97.52 tonne 17.22 tonne 17.66% %

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

a3=c+d+e+i+i+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</u> <u>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> 環境衛生署(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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	编	編號: AEP-454/2013)		
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-				
	fovember 2013 月11月12日			
	Date 日期		(Ken Y.K. Wong) Principal Environmental Protection Officer for Director of Environmental Protection 環境保護署署長 (首席環境保護主任 黃羅光代行)	

PART B (DESCRIPTION OF DESIGNATED PROJECT)

B部(指定工程項目的說明)

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

下列為本環境許可證(下稱"許可證")A部所提及的指定工程項目的說明:

Title of Designated Project(s) 指定工程項目的名稱	Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices- cum-vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area [This designated project is hereinafter referred to as "the Project"] 在西九龍填海區欽明路重置食物環境衞生署洗衣街環境衞生辦事處暨車 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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<u>General Conditions</u> 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 <u>Part A</u> 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 <u>Part B</u> 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 <u>Part C</u> of this Permit. Any variation of the submissions shall be approved by the Director in writing or as prescribed in the relevant permit conditions. Any non-compliance with the submissions may constitute a contravention of the Environmental Impact Assessment Ordinance (Cap. 499). All submissions or any variation of the submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent

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

- 1.10 The Permit Holder shall release all finalized submissions as required under this Permit, to the public by depositing copies in the Environmental Impact Assessment Ordinance Register Office, or in any other places, or any internet websites as specified by the Director, or by any other means as specified by the Director for public inspection. For this purpose, the Permit Holder shall provide sufficient copies of the submissions.
- 1.11 All submissions to the Director required under this Permit shall be delivered either in person or by 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.
- 1.14 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:-
 - (a) one (1) existing tree to be retained in-situ at the location marked in Figure 2;
 - (b) 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
 - (c) an updated landscape design for ground floor planting, vertical greening, roof gardens and hard 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:-
 - (a) the washing bays and maintenance workshops shall be enclosed in 3 sides and served with 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
 - (b) all vehicle repair activities shall be carried out within the covered area of the transport workshop section on ground floor of the Project as shown in <u>Figure 2</u>.
- 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.
- 3.2 Samples, measurements and necessary remedial actions shall be taken in accordance with the requirements of the EM&A Manual by:
 - (a) conducting baseline environmental monitoring;
 - (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
 - (d) 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. <u>Electronic Reporting of EM&A Information</u>

- 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	g
Ailanthus fordii (Ailanthus)	Melaleuca quinquenervia (Paper-bark tree)

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Bauhinia purpurea (Hong Kong orchid tree) Cassia surattensis (Sunshine Tree) Grevillea robusta (Silky Oak) Plumeria rubra (Red Frangipani) Terminalia mantaly (Madagascar Almond)

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

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

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

Notes:

註:

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

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

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

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Schedule 2 of the EIAO without a valid environmental permit.

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

- Any person who constructs or operates the Project contrary to the conditions in the Permit, and is convicted of an offence under the EIAO, is liable: 如任何人在違反本許可證的條件下建造或營辦工程項目,根據環評條例,即屬犯罪-
 - on a first conviction on indictment to a fine of \$2 million and to imprisonment for 6 months;
 一經循公訴程序首次定罪,可處罰款200萬元及監禁6個月;
 - (ii) 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。
- 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。
- 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。

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

Figure 1 Figure 2 Figure 3

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

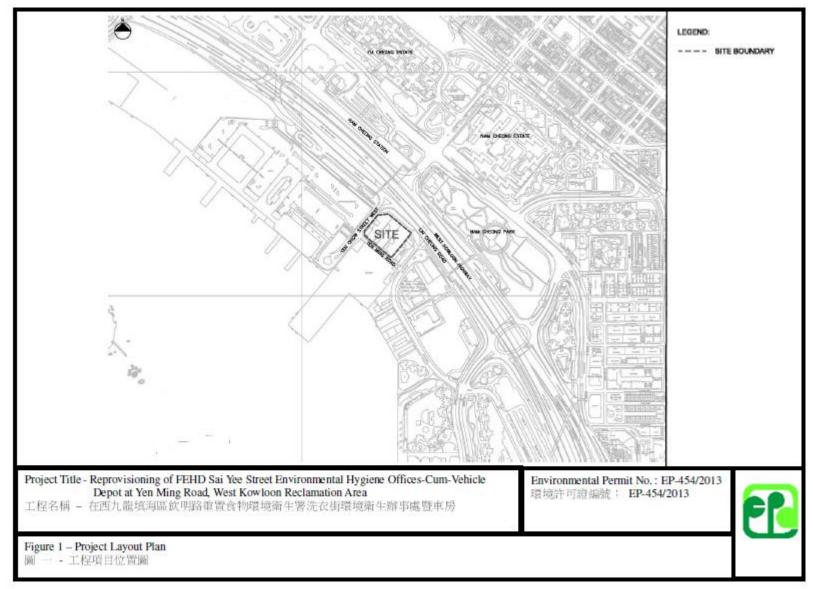
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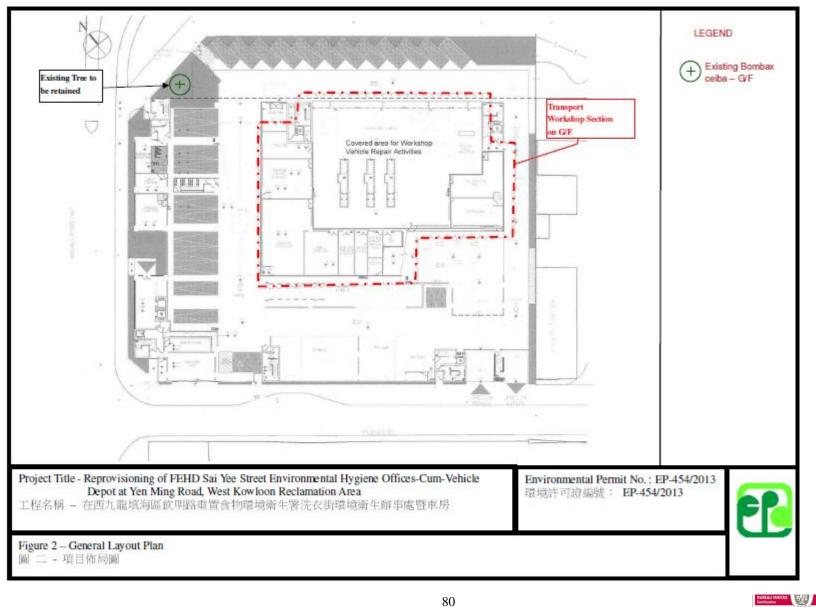
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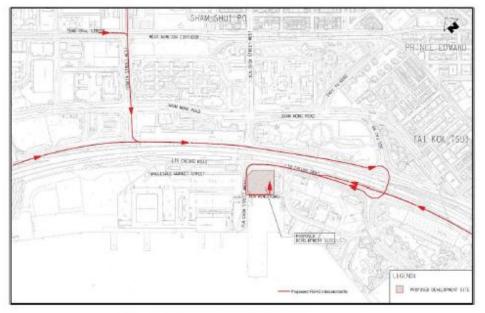


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(b) Discharge License

WE/D/EPI 本署檔號 Our Ref: **Environmental Protection Department Environmental Compliance Division** EP482/269A/0017/I/164099 環保法規管理科 來函檔號 Regional Office (East) 區域辦事處(東) Your Ref. 5th Floor, Nan Fung Commercial Centre, 香港九龍九龍灣臨樂街 Tel. No.: 19 Lam Lok Street, Kowloon Bay, 十九號南豐商業中心五樓 圖文傳真 2117 7539 Kowloon, Hong Kong Fax No.: ECEIV 2756 8588 CC KKFu/ Telemix 電子郵件 E-Mail: 01 X12/16 Homepage: http://www.epd.gov.hk/ RY: 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 <u>Application for a licence to discharge from</u> <u>Construction Site of Reprovisioning of Food and Environmental Hygiene Department</u> <u>Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road,</u> <u>West Kowloon Reclamation Area</u>

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 <u>Ms Y L TSANG</u> at Tel. <u>2117 7546</u>. 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.

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

Yours faithfully,

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

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> <u>之建築地盤排放污水</u>

有關你於 2015年12月11日 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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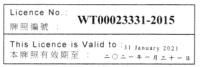


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ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

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

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

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

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

22 January 2016

Date 日期

(CHAN Kin Ki) For *the Authority* 監督 (陳健基 代行)

PARTA 甲部 : GENERAL TERMS 一般條款

Name of Licensee ("the Licensee")	China Road and Bridge Corporation		
持 牌 人 名 稱 (「持 牌 人」)	中國路橋工程有限責任公司		
Discharge Premises ("the premises") 排 放 處 所 (「處 所」)	Construction Site of Reprovisioning of Food and Environmental Hygiene Department Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area (See Annex) 西九龍填海區欽明路重置食物環境衛生署洗衣街環境衛生辦事處暨車房之 建築地盤(參考附件)		
Water Control Zone	Victoria Harbour (Phase II)		
水 質 管 制 區	維多利亞港(第二期)		
Discharge Category	Discharge of Industrial/ 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		
*Delete as appropriate 将千週用若潮去			

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

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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。從用的。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,所有单位与风电池的	
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

- The Licensee shall perform self-monitoring as and when required by the Authority. \forall
- 持牌人須在監督要求時進行自行監測。
- The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:-持牌人須在取樣點為排放抽取樣本,並依照下列指定的測量物、取樣形式及頻率,自資予以分析。

Determinand 測量物 Unit 單 位	Sample Type 取樣形式	Frequency 頻 率
--------------------------	------------------	---------------

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

所有監測結果須以摘要形式,每一個月/兩個月/三個月*作出紀錄,並呈交審閱。

*Delete as appropriate 將不適用者膨去

EPD156

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PART C 丙 部 : STANDARD CONDITIONS 標 準 條 件

C1. The Discharge 排放

- C1.1 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. 排放不得含有多氢聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣; 會損毀污水渠結構或干擾任何處理程序的物質,或有損操作及維修排污系統人員健康及安全的任何物質;足以在排水或排污系統,或香港水域任何範圍內形成浮渣或沉積物的廢物;足以在香港水域任何範圍內形成變色的廢物;污泥、漂浮物質或體積超越10毫米的固體;及任何種類的污泥或固體垃圾。
- C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.

除非避免人命傷亡或嚴重財物損失或無其他可行代替辦法,排放不得繞流不經其廢水處理設施,取樣點或 排放點。

C1.3 Dilution of the discharge to achieve compliance with the limits contained in this licence is prohibited. 不得將排放稀釋,以求達到本牌照內所訂的限度。

C2. Flow Measurement 量度流量

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

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

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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
- 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 (Met d)。

C6. Records and Reporting 紀錄及報告

隨時可在處所內抽取排放樣本。

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

持牌人須在處所內保存下列紀錄,以備獲監督授權的人員隨時查閱:

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

所有清除污泥和清理隔油池廢物工序的紀錄,及其棄置工序的紀錄。

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

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

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

C7. Operation Manual 操作手冊

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

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

C8. Notification of Change 更改通知

The Licensee shall notify the Authority in writing within 14 days of any changes or proposed changes in the processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition of the discharge or may result in the permanent cessation of the discharge. 倘若持脾人更改或擬更改其生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久性終止排放的事情,必須在14日內以書面通知監督。

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Not	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. Samples and the samples and the samples are regarded by the samples are regarded by the failed to comply with Specific Condition B1. Samples are regarded by the samples ar				
	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有百來中的5%的是的是不及。 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/收集商使用適富的設備在西九龍廢物轉運站棄員所 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 effluent="" memorandum="" on="" standards=""> for analytical methods used</technical>				
	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。				
Ø	(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. 持牌人须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)	licence or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose ficence has been so varied of				
	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。持牌人可參考環保署印發之 Practice Note for Professional Persons, 編號 PN 1/94, "Construction Site Drainage"				

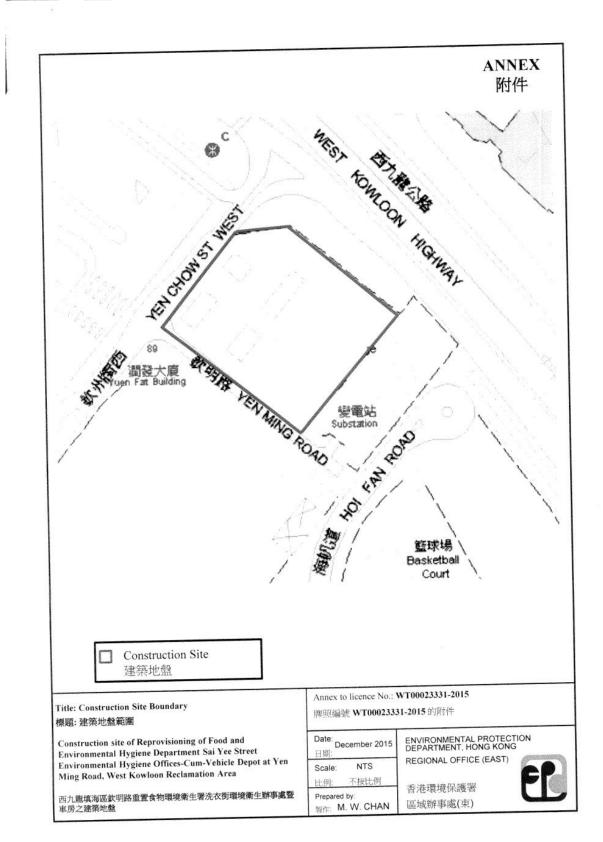
香港沙田火炭山尾街 18-24 號沙田商業中心 16 樓 9-10 室 Tel.: (852) 3563 7003 Fax.: (852) 3563 7018 綱址: http://www.telemaxeem.com Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, N.T., Hong Kong

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Telemax Environmental and Energy Management Limited Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.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





Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com (c) Chemical Waste Producer Registeration

本智檔號 Our Ref: 家函館號 Your Ref: 電 Tel, No.: 電子部件 E-Mail: 網 並 Homepage	396912 2117 7539 2756 8588 e: http://www.epd.gov.hk/ By Registered Post	Environmental Protection Department Environmental Compliance Division Regional Office (East) 5 th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong. 2 1 2007 2017 2017 B Y: CHINA ROAD AND BRIDGE CORPORATE FLAT 07-11, 23A/F., K.WAH CENTRE, 191 JAVA ROAD, NORTH POINT, HONG KONG	CON WK	環境保護署 環保法第 軍場(東) 香港九龍九龍海臨半市 十九號南聖商業中心五使 ノの(EFD) 10 JAN 2016 CC KKFu/ Tele www, の の の の した した した した した した した した した した した した した
Dear S	Sir/Madam,			

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

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.





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

	Environmental Protection Department 環境保護署				
1	Waste Disposal Ordinance (Chapter 354)				
1	香港法例第354章廢物處置條例				
	Waste Disposal (Chemical Waste)(General) Regulation 廢物處置(化學廢物)(一般)規例				
1		Registration of Waste Producer			
⊢		廢物產生者登記證			
To: 致	To: Chemical Full Name (English) 酸 Waste 全 名 (英文) CHINA ROAD AND BRIDGE CORPORATION				
	化學廢物產	(Chinese) 中國路橋工程有限責任公司 I.D. Card No. (if any) (中 文)			
	生者	Business Reg. Cert. No. (if any) 商業登記證號碼: (如有者) 16058447-000-08-15-A			
		Address for Correspondence			
		通訊地址: FLAT 07-11, 23A/F., K.WAH CENTRE, 191 JAVA ROAD, NORTH POINT, HONG			
		KONG			
		Tel. No. Fax No. 電話: 2283 1688 圖文傳真: 2283 1689			
	With referen	nce to your application dated 11 / 12 / 2015 for registration as a Waste			
	Producer un	nder the Waste Disposal (Chemical Waste) (General) Regulation, the Waste Producer Number,			
		2 1 3 - 2 6 9 - C 1 2 3 2 - 1 8 is assigned to you in respect of the location or premises			
	listed below				
)	前於 <u>2015</u>	2年_12_月_11_日 根據廢物處置(化學廢物)(一般)規例而來信,申請登記為廢物產生者,茲特配			
2	予廢物產生者	編號第 52113-269-01232-18 號·予下開地點或處所:			
	Location or	Name of Establishment CHINA ROAD AND BRIDGE CORPORATION 機構名稱: 中國路橋工程有限責任公司			
	Premises where the	Business Reg. Cert. No. (if any) 16058447-000-08-15-A			
	waste is	岡 来 立 記 證 號 嚩:(如月者)			
	produced	Nature of Business 業務性質: CONSTRUCTION SITE			
	產生廢物	Major chemical waste types			
	的地點或 主要 化 學 廢 物 種 類 : SURPLUS PAINT, SPENT LUBRICATION OIL				
	處所				
		Address REPROVISIONING OF FOOD AND ENVIRONMENTAL HYGIENE DEPARTMENT SAI 地:			
		YE STREET ENVIRONMENTAL HYGIENE OFFICES-CUM-VEHICLE DEPOT AT YEN			
		MING ROAD, WEST KOWLOON RECLAMATION AREA			
	Chur Again				
	(CHAN Kin Ki)				
	for Director of Environmental Protection 環境保護署署長(陳健基 代行)				
	Date 15 1 2016 日期				
WARNING : Any registered waste producer who fails to inform the Director of Environmental Protection of any					
警	ci	hange in his registration particulars commits an offence and is liable on conviction to a fine of \$10,000. E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			

EPD 130

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 綱址: http://www.telemaxeem.com Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, N.T., Hong Kong

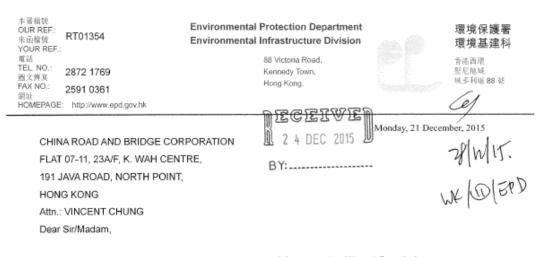


(Nov 2012)



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(d) Billing Account for Disposal of Construction Waste



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.: <u>RT01354</u>

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.

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

Yours faithfully,

(C F Wong) Principal Environmental Protection Office for Director of Environmental Protection

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AU 2: 14 RECYCLED TATEF

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







(e) Construction Noise Permit

[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

CONSTRUCTION NOISE PERMIT NO. GW-RE1081-16

To: China Road and Bridge Corporation

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted 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, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence.

CONDITIONS

1. Construction site where the powered mechanical equipment and/or prescribed construction work may be employed :

Full address : Construction site at junction of Yen Chow Street West and Yen Ming Road, West Kowloon Reclamation Area, Mong Kok, Kowloon.. Lot No.: ---

The site boundary, that is, the boundary of the area within which the powered mechanical equipment may be used and the prescribed construction work may be carried out is delineated on the attached plan which forms part of this construction noise permit.

2. * PART/WHOLE of the site falls * WITHIN/OUTSIDE a designated area.

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

	Identification code of item of owered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units
	CNP 283	Water pump, submersible (electric)	Four
-			

b. Validity of the construction noise permit for the use of the powered mechanical equipment:

Date and time of commencement :	24 November 2016	at	1900 hours	
Days and hours : 0000-2400 hours on g	eneral holiday (including Sunday), 0	000-0700 hours ar	nd 1900-2400 hours on any day r	10
being a general holiday				

This part of the permit expires on :	23 May 2017	at	0700 hours	
· · · · · · · · · · · · · · · · · · ·				

c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit 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 :

A(s)	-	

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

	Identification code of type of prescribed construction work		Description of type of vrescribed construction w	I
		Nil		
b.	Validity of the construction noise perm			
	Date and time of commencement : Days and hours : 0000-2400 hours of being a general holiday.	24 November 2016 on general holiday (including Sun	ar day), 0000-0700 hours ar	1900 hours ad 1900-2400 hours on any day not
	This part of the permit expires on :	23 May 2017	at	0700 hours
c.	Site layout plan(s), endorsed by the Au of prescribed construction work descri made available for inspection by the Au	bed in this permit. The layout p		
d.	Other conditions imposed on the carryi	ng out of the prescribed construct	ion work:	
	is construction noise permit or a copy the formation.		nstruction site at <u>all vehic</u>	
Da	ited this 09 th day of Nov	ember 20 16		
		Signed :	(NG Ping for Autho	
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Delete as necessary

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表格3 嗓音管制條例 (第400章) 第8(9)條

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

建築噪音許可證編號: GW-RE1081-16

致 : 中國路橋工程有限責任公司

本建築噪音許可證是按照《噪音管制條例》第8條的規定而發出的。現准予使用機動設備以進行撞 擊式打樁工程以外的建築工程及/或進行訂明建築工程,但須受以下條件規限。若不按照該等條件 進行建築工程,許可證可遭撤銷,而且會受到檢控。

條 件

可使用機動設備及/或進行訂明建築工程的建築地盤:

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。

地段編號:

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地盤範圍(即可使用機動設備及進行訂明建築工程的地方範圍)已描劃於夾附的圖則上,而該 圖則是本建築嗓音許可證的一部分。

- 該地盤部分/全部*位於指定範圍之內/外*。
- 3. 機動設備
 - a. 在地盤範圍內可使用的各項機動設備:

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
CNP 283	潛水泵(電動)	野

b. 可使用機動設備的建築噪音許可證有效期:

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	生效日期	及時	間:				二零	\$—7	六年-	十一月	<u></u> +-	四日				下午七	時		
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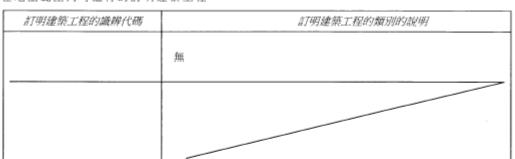
香港沙田火炭山尾街 18-24 號沙田商業中心 16 樓 9-10 室 Tel.: (852) 3563 7003 Fax.: (852) 3563 7018 網址: http://www.telemaxeem.com Unit 9-10, 16/F, Shatin Galleria, No. 18-24 Shan Mei Street, Fo Tan, N.T., Hong Kong

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- 4. 訂明建築工程
 - a. 在地盤範圍內可進行的訂明建築工程:



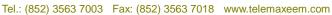
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★ 刪去不適用者

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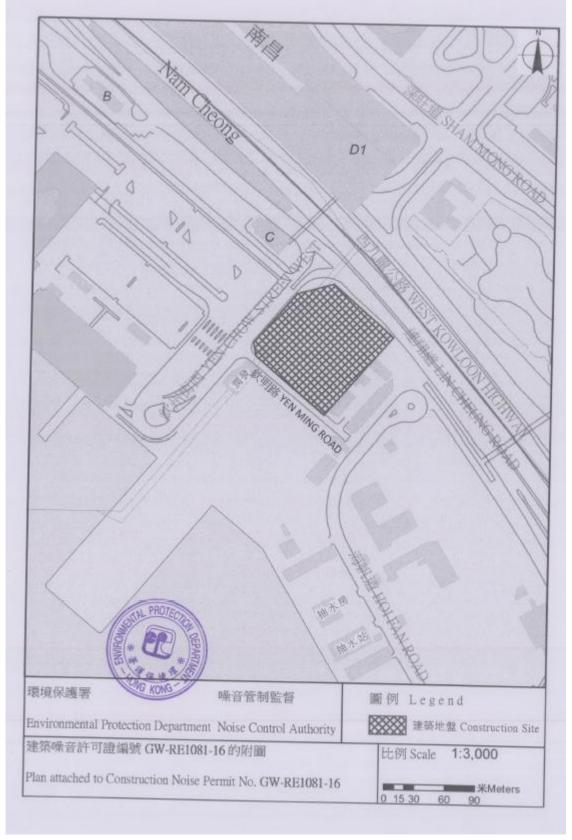


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Appendix N NSR 1 School Calendar 2016-17

Sir Ellis Kadoorie Secondary School (West Kowloon) School Calendar 2016-2017

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23 24 25 26 27 28 29 18 Pre-S1 Attainment Test	-	42	_								
30 51 12/7-31/8 Summer Vacation					25	26	27	28	29		
			- 30	- 51						12/7-31/8	Summer Vacation

Examination Period Term Test Special Days Staff Development Days

School Holidays Public Holidays
Discretionary Holidays Special Timetable ٥





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Schedule of DSE Examination at Sir Ellis Kadoorie Secondary School (West Kowloon)

Date	DSE Code	School Name	Noise Impact
			Monitoring Day
			(Y/N)
3 rd April 2017			Ν
5 th April 2017		C'a Fillia Kada ania	Ν
6 th April 2017		Sir Ellis Kadoorie	Ν
7 th April 2017	20354	Secondary School (West Kowloon)	Y
8 th April 2017		(west Kowiooli)	Ν
21 st April 2017			Ν

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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:

7th / 25th April 2017

NSR 1	Sir	PeriodSpeed E_{10} E_{50} E_{64} Level7:00-7:30(30 min)(30 min)(30 min)Level7:30-8:00 65.6 55.6 63.9 65.0 8:00-8:30 66.2 56.8 64.1 65.0 8:30-9:00 66.4 56.2 64.6 65.0 9:00-9:30 66.8 56.7 64.9 65.0 9:00-9:30 66.8 56.7 64.9 65.0 9:00-9:30 66.8 56.7 64.9 65.0 9:00-10:30 66.5 57.3 64.2 65.0 0:30-11:00 66.6 56.2 64.7 65.0 1:30-12:00 67.3 56.8 65.0 65.0						
Date	Monitoring Period	Weather						
	7:00-7:30			65.6	55.6	63.9	65.0	
	7:30-8:00			65.7	55.1	63.5	65.0	
	8:00-8:30			66.2	56.8	64.1	65.0	
	8:30-9:00			66.4	56.2	64.6	65.0	
	9:00-9:30			66.8	56.7	64.9	65.0	
	9:30-10:00			67.1	56.9	65.0	65.0	
	10:00-10:30			66.9	57.1	64.8	65.0	
	10:30-11:00			66.5	57.3	64.2	65.0	
	11-00:11:30			66.6	56.2	64.7	65.0	
	11:30-12:00			67.3	56.8	65.0	65.0	
	12:00-12:30			66.2	57.5	64.9	65.0	
7 th April 2017	12:30-13:00	Fine	$< 5 m s^{-1}$	66.8	57.9	64.5	65.0	
	13.00-13:30			66.7	56.8	64.2	65.0	
	13:30-14:00			66.3	56.6	64.8	65.0	
	14:00-14:30			66.1	57.4	64.3	65.0	
	14:30-15:00			65.5	57.9	63.7	65.0	
	15:00-15:30			66.0	58.1	63.9	65.0	
	15:30-16:00			66.2	58.2	64.7	65.0	
	16:00-16:30			66.1	57.0	64.5	65.0	
	16:30-17:00			66.8	56.8	64.8	65.0	
	17:00-17:30			66.5	57.1	64.3	65.0	
	17:30-18:00			66.9	56.4	64.1	65.0	
	18:00-18:30			65.4	56.9	63.7	65.0	
	18:30-19:00			65.2	56.2	63.8	65.0	
		Overa	ll L _(30 min)	66.4	57.0	64.4	65.0	





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NSR 1	Sir	Ellis Kadoorie	e Secondar	y School	(West Ko	wloon)	
Date	Monitoring Period	Weather	Wind Speed	L ₁₀ (30 min)	L90 (30 min)	L _{eq} (30 min)	Limit Level
	7:00-7:30			64.6	55.3	62.7	65.0
	7:30-8:00			66.2	55.8	64.1	65.0
	8:00-8:30			66.5	56.4	64.4	65.0
	8:30-9:00			65.1	56.9	63.5	65.0
	9:00-9:30			65.6	57.4	63.9	65.0
	9:30-10:00			66.7	57.6	64.1	65.0
	10:00-10:30			66.3	56.3	64.6	65.0
	10:30-11:00			67.4	56.1	65.0	65.0
	11-00:11:30			66.5	57.8	64.9	65.0
	11:30-12:00			66.1	57.9	64.5	65.0
25 th April	12:00-12:30			66.2	56.0	64.7	65.0
25° April 2017	12:30-13:00	Cloudy	$< 5 m s^{-1}$	66.7	56.3	64.9	65.0
2017	13.00-13:30			67.6	57.2	65.0	65.0
	13:30-14:00			66.8	57.4	64.3	65.0
	14:00-14:30			66.9	57.8	64.7	65.0
	14:30-15:00			65.4	57.1	63.5	65.0
	15:00-15:30			65.3	56.8	63.9	65.0
	15:30-16:00			66.1	57.7	64.1	65.0
	16:00-16:30			66.2	57.2	64.4	65.0
	16:30-17:00			65.7	56.9	63.8	65.0
	17:00-17:30			65.5	56.2	63.4	65.0
	17:30-18:00			66.0	57.2	64.6	65.0
	18:00-18:30			66.3	57.6	64.2	65.0
	18:30-19:00			65.1	56.5	63.8	65.0
		Overa	all L _(30 min)	66.2	56.9	64.2	65.0

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