

elemax Environmental and Energy Management Limited

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Our Ref. : TEEM/TM334/17/015 Date : 14 February 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 January 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 January 2017 for your record in accordance with Condition 3.3 of EP-454/2013.

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

Yours faithfully,

For and on behalf of Telemax Environmental and Energy Management Limited

Ir Eagle MO Managing Director

EM/FT/JI /RX/DI

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: 1330/17-0005

13 February 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 January 2017 (Issue 1)

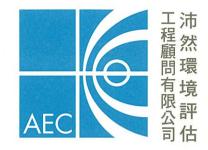
Further to the receipt from Environmental Team (ET) of the captioned Monthly EM&A Report on 8th February 2017 via email, pursuant to Condition 3.4 of Environmental Permit, I hereby verify the captioned report (Issue 1).

Yours faithfully, For ALLIED ENVIRONMENTAL CONSULTANTS LIMITED

CC

Grace Kwok Independent Environmental Checker GK/cwh

	ail
ArchSD Mr. Shing-hin SAT, Saadullah, SPM335 / Mr. WAN Koon Piu, Ema Dick. PM342	an
PTA Ms. Clara PANG / Mr. Jess YEUNG Ema	ail
TEEM (ET Leader) Mr. Jason LAU Ema	ail
CRBC (Main Contractor) Mr. Vincent CHEUNG, Project Manager / Mr. KK FU, Site Agent Ema	ail



By Email

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

Environmental Monitoring and Audit Report

Prepared by: Telemax Environmental and Energy Management Limited

Prepared by: Dexter Lee / Rena Xm

TELEMAX

13 February 2017

Date

ENVIRONMENTAL TEAM LEADER

13 February 2017

Date

Grace Kwok

Verified by: ____

Certified by:

INDEPENDENT ENVIRONMENTAL CHECKER

13 February 2017

Date

Telemax Environmental and Energy Management Limited



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Issue	Date	Prepared by	Checked by	Approved by	Remark
		Dexter Lee			
		(Assistant	Jason Lau	Eagle Mo	
1	8 th February 2017	Consultant) /	(Chief	(Managing	
		Rena Xu	Consultant)	Director)	
		(Consultant)			







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1.0 Executive Summary

1.1 In December 2015, Telemax Environmental and Energy Management Limited (TEEM) was appointed to conduct an environmental monitoring and audit (EM&A) program for the proposed reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area (FEHD). The site clearance and tree felling works were undertaken during the period from 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 eleventh monthly EM&A report, which detailed the environmental monitoring and audit results recorded during the period from 1st January 2017 to 31st January 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



Telemax Environmental and Energy Management Limited





- 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:
 - Checking and maintenance of piling plant
 - Setting out of pile cap
 - Site clearance
 - Hacking concrete paving for sheet pile installation
 - Sheet pile installation, driving and fixing
 - Pile driving and welding
 - Formwork erecting for pile caps
 - Sheet pile extraction
 - Welding for capping plate and U-bar
 - Installation of static load test platform
 - Unloading static load test
 - Static load test
 - Concreting work
 - Blinding layer work
 - Installation of tower crane





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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:

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

Table 2 Status of Licenses and Permits

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



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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 January 2017 submitted on 9 th January 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			Mitigation Measures
12. 13.	load test platform Unloading static load test Static load test Concreting work Blinding layer 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, L _{eq 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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Environmental **Mitigation** 5.0 Implementation of Status

Measures

- 5.1 During reporting month, major works undertaken and/or completed during the reporting month are listed as below:
 - Checking and maintenance of piling plant
 - Setting out of pile
 - Site clearance
 - Hacking concrete paving for sheet pile installation
 - Sheet pile installation, driving and fixing
 - Pile driving and welding
 - Formwork erecting for pile caps
 - Sheet pile extraction
 - Welding for capping plate and U-bar
 - Installation of static load test planform
 - Unloading static load test
 - Static load test
 - Concreting work
 - Blinding layer work
 - Installation of tower crane
- 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;



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- 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; 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		
5 th January 2017	Reminder 1: The contractor was reminded to ensure the sufficient space within protection zone of retained tree T21.	The contractor shall place the fencing out of the dripline	Fencing and concrete boundary was placed beyond the dripline as observed on 10 th January 2017.
10 th January 2017	Nil.	Nil.	Nil.
20th January 2017	Nil.	Nil.	Nil.
24 th January 2017	Reminder 1: The contractor was reminded to provide a label to the retained tree T21 for easy recognition.	The contractor shall provide the label tag to the retained tree T21 accordingly.	Tree tag was provided as observed on 2 nd February 2017.

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.

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6.0 Monitoring Methodology

Monitoring Parameter

- 6.1 Impact noise monitoring was conducted at the designated noise monitoring location between 0700-1900 hours using a sound level meter which complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1).
- 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 4th, 10th, 16th, 21st and 27th January 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 schedule for the reporting period and the detailed monitoring results during the reporting period at both NSR1 and NSR7 according to the monitoring results.





NSR1		Sir Ellis Kadoorie Secondary School Monitoring Weather Wind Speed L10(30 min) L90(30 min) Leq(30 min) Limit Time Period Condition (m/s) 67.2 57.4 64.9 70.0													
Date 04/01/17 (Non-E) 10/01/17 (Exam) 16/01/17 (Exam)	Monitoring	Weather	Wind Speed	Lange	Lange	Land	Limit								
Date	Time Period	Condition	(m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Level								
04/01/17	07:00 10:00	Suppy	~5	67.2	57 /	64.0	70.0								
(Non-E)	07.00-19.00	Sulliy	2	07.2	57.4	04.9	70.0								
10/01/17	07:00-19:00	Fine	<5	66.4	56.7	64.2	65.0								
(Exam)	07:00-19:00	Fille	<.)	00.4	30.7	04.2	05.0								
16/01/17	07:00-19:00	C	-5	66.4	57.0	64.1	65.0								
(Exam)	07:00-19:00	Sunny	<5	00.4	57.0	04.1	65.0								
21/01/17	07:00-19:00	Fine	-5	<i>((</i>)	56.2	(1.2	70.0								
(Non-E)	07:00-19:00	Fille	<5	66.4	30.2	64.2	70.0								
27/01/17	07.00 10.00	C	-5	66.5	56.0	64.2	70.0								
(Non-E)	07:00-19:00	Sunny	<5	00.3	30.0	04.2	70.0								
	Average Leq(3	30 min) for Exa	am		65.0										
	Average Leq(3	0 min) for Nor	1-E		64.5										

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:

10th / 16th January 2017

Compliance achieved in the reporting period

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Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com Table 11 Noise Monitoring Results at NSR7

NSR7	L10(30 min) L90(30 min) Leq(30 min)												
Date	Monitoring	Weather	Wind Speed	L10(30 min)	L90(30 min)	Leq(30 min)	Limit						
	Time Period	Condition	(m/s)			Leq(30 min) Lim Lev 72.2 75. 71.8 75. 72.8 75. 71.4 75. 71.6 75.	Level						
04/01/17	07:00-19:00	Sunny	<5	74.5	66.5	72.2	75.0						
10/01/17	07:00-19:00	Fine	<5	74.0	66.2	71.8	75.0						
16/01/17	07:00-19:00	Sunny	<5	74.9	66.1	72.8	75.0						
21/01/17	07:00-19:00	Fine	<5	73.7	65.0	71.4	75.0						
27/01/17	07:00-19:00	Sunny	<5	73.7	65.3	71.6	75.0						
	Average	Leq(30 min)			75.0								

Remarks:

Unit in dB(A)

Limit Level for NSR7 = 75.0 dB(A)

Compliance achieved in the reporting period

- 7.3 For examination session at Sir Ellis Kadoorie Secondary School (NSR1), the minimum and maximum noise level measure in a single 30-min period at was 62.8 L_{eq(30min)} and 65.0 L_{eq(30min)} respectively with an average of 64.1 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 62.1 $L_{eq(30min)}$ and 65.9 $L_{eq(30min)}$ respectively with an average of 64.5 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 68.8 $L_{eq(30min)}$ and 73.8 $L_{eq(30min)}$ respectively with an average of 72.0 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no greater than 75.0 dB(A)).
- 7.5 Piling work was undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.





8.0 Non-compliance, Complaints, Notifications of Summons and

Status of Prosecutions

Record on Non-compliance of Action and Limit Levels

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

Record on Environmental Complaints Received

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

Record on Notifications of Summons and Successful Prosecution

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

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

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

Follow-up Actions Taken

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



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9.0 Forecast of Works Programme and Future Key Issues

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





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



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, 747.40 tons of excavated C&D materials were disposed at public fills and 17.90 tons of general refuse was disposed at NENT landfill. No recyclables (e.g. metals, paper/cardboard packaging or plastics) 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.





11.0 Comments, Recommendations and Conclusions

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

Chemical waste and Waste Management

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

Water Quality Impact

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

Air Quality Impact

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

Construction Noise Impact

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



Landscape and Visual Impact

- Retained tree should be properly fenced off and the working area.
- Mulching shall be provided to the retained tree.
- Green roof of site office shall be provide once construction is finished.
- 11.3 The mitigation measures had been implemented to minimize the environmental impacts due to the construction of FEHD Sai Yee Street Environmental Hygiene Offices-cumvehicle Depot, Yen Ming Road, West Kowloon Reclamation Area. The recommended mitigation measures in the EIA process and the EM&A programme were effective in protecting the environment. As such, the environmental performance during the construction phase was considered acceptable.
- 11.4 Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) and the Fu Cheong Estate Fu Yun House (NSR7) on 4th, 10th, 16th, 21st and 27th January 2017.
- 11.5 For examination session at Sir Ellis Kadorie Secondary School (NSR1), the minimum and maximum noise level measure in a single 30-min period at was 62.8 L_{eq(30min)} and 65.0 L_{eq(30min)} respectively with an average of 64.1 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 62.1 $L_{eq(30min)}$ and 65.9 $L_{eq(30min)}$ respectively with an average of 64.5 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 68.8 L_{eq(30min)} and 73.8 L_{eq(30min)} respectively with an average of 72.0 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ no greater than 75.0 dB(A)).
- 11.7 Piling work was undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.
- In the reporting period, no environmental complaint and no notifications of summons 11.8





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 747.40 tons of excavated C&D materials were disposed at public fills and 17.90 tons of general refuse was disposed at NENT landfill. No recyclables (e.g. metals, paper/cardboard packaging or plastics) were collected by recycling contractor.
- 11.11 Construction activities to be undertaken in the next three months include setting up of tower crane, backfilling works, R.C. Frame works, grasscrete installation works plumbing installation works, drainage installation works, electrical installation works, MVAC installation works and fire services installation works. Potential environmental impacts include generation of various wastes including oil and chemical wastes, general refuse and construction waste, maintenance work to all drainage facilities and wheel washing 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





Chi	ina Road and Bridge Corporation			Reprovi	cion	ing of FELID Saily	Master (ee Street Environ			-	-	-	not at	Van Mina	Road (SSD505)
ID	Task Name	Duration	Start	Finish		R	B	В		В			В		В
1	Contract a select	707 daua	We d 0/12/15	C-1 2/2/20	iep '15 T	8 Nov '15 20 Dec '15 M F T S W	31 Jan '16 13 Mar '16 S T M F T	24 Apr '16 S W	5 Jun '16 S T	17 Jul '16	28 Aug '16 S W	9 Oct '16 S T	20 Nov M F	'16 1 Jan '17 T S V	12 Feb '17 26 Mar '17 V S T M F
2	Contract period Project commencement	787 days	Wed 9/12/15 Wed 9/12/15	Sat 3/2/18 Wed 9/12/15	_	♦ 9/12		1	1		T.	1			
3	Project commencement	0 days 0 days	Sat 3/2/18	Sat 3/2/18							- 		i i		
4	Milestone Dates	788 days	Wed 9/12/15	Sat 3/2/18	_										
5	Project commencement	0 days	Wed 9/12/15	Wed 9/12/15		♦ 9/1/2			1		1				
6	Submission / Application of Form WWO 046 (Part I & II)	1 day	Mon 3/10/16	Mon 3/10/16	5				1		•	3/10			
7	Submission of Form WWO46 Part IV	1 day	Wed 20/9/17	Wed 20/9/17	7			1	1						
8	Last Manhole Connection Completion	1 day	Tue 25/7/17	Tue 25/7/17				1	l I		l I				
9	Water Certificate Obtained	1 day	Tue 28/11/17	Tue 28/11/17	_			1	l I		I I	T T			
10		1 day	Fri 7/7/17	Fri 7/7/17				1	l I		I I	1		1	
11	Power Energisation Lift certificate Obtained (Fireman's Lift)	1 day 1 day	Sun 1/10/17 Sat 28/10/17	Sun 1/10/17 Sat 28/10/17	7			1	1		l I	1			
13		1 day	Wed 13/12/17	Wed 13/12/17	7			1	I I		I. I.	1			
14		1 day	Wed 27/12/17	Wed 27/12/17	7			1	1		I I	1		1	
15	F.S. Certificate Obtained	1 day	Tue 16/1/18	Tue 16/1/18	3			1	i T				i i		
16	Site Handover	1 day	Sat 3/2/18	Sat 3/2/18	3			1	i I	i i	i I		i i		
17	Critical Path Summary	788 days	Wed 9/12/15	Sat 3/2/18	3			1	1		1				
18	Project commencement	0 days	Wed 9/12/15	Wed 9/12/15	5	 9/12 		1	1		I I	1			
19		113 days	Thu 10/12/15	Thu 31/3/16		10/12	31/3	l I	l l		I I	1 T			
20		127 days	Fri 1/4/16	Fri 5/8/16			1/4	1	1	5/8		1		1	
21	· · · · · · · · · · · · · · · · · · ·	14 days	Sat 6/8/16	Fri 19/8/16				1	1	6/8 20/8	9/8				
22	Loading test (70% completed)	38 days	Sat 20/8/16	Mon 26/9/16	_					20/8	27/9		i i	3/1	
23 24	Construction of pile caps with sheetpile (excavation, pile head and R.C. works) Backfilling works	99 days 20 days	Tue 27/9/16 Wed 4/1/17	Tue 3/1/17 Mon 23/1/17								1		4/1 23/	1
25		161 days	Tue 24/1/17	Mon 3/7/17	_				1		1			24/1	
26		21 days	Tue 4/7/17	Mon 24/7/17				1	1		I I			1	
27		86 days	Tue 25/7/17	Wed 18/10/17				1	l I	1	1	l I		1	
28		50 days	Thu 19/10/17	Thu 7/12/17				1	1		I I	1		1	
29	Removal of scaffoldings	11 days	Fri 8/12/17	Mon 18/12/17	7			1	1		1	1			
30	EVA Construction and paving	8 days	Tue 19/12/17	Tue 26/12/17	7			1	1		I I	1			
31	FSD inspection and Issuance of FS Certificate	21 days	Wed 27/12/17	Tue 16/1/18	3			1	i I	 	1		i i		
32		14 days	Wed 17/1/18	Tue 30/1/18				1	1						
33		4 days	Wed 31/1/18	Sat 3/2/18					1		1				
	Preparation works	371 days	Thu 10/12/15	Wed 14/12/16		10/12 16/12			I	1	i.	I			
35 36		7 days	Thu 10/12/15	Wed 16/12/15		10/12 10/12	27/2	1	l I		1	1			
37	Condition survey and U/G utility survey Setting up site office (1) Drawing submission and approval	80 days 60 days	Thu 10/12/15 Thu 10/12/15	Sat 27/2/16 Sun 7/2/16		10/12	7/2	1	1		I I	1			
38	Setting up site office (1) Entwing Submission and opproval Setting up site office (2) Material fabrication and construction	60 days	Mon 8/2/16	Thu 7/4/16			8/2 7/4	1	1		1	1		I I	
39		218 days	Thu 10/12/15	Thu 14/7/16		10/12				14/7	1	1			
40	Setting out of site area	45 days	Thu 10/12/15	Sat 23/1/16	5	10/12	23/1	1			1	1			
41	Hoarding (1) installation	113 days	Thu 10/12/15	Thu 31/3/16	5	10/12	31/3	1	i I		1				
42	Hoarding (2) painting and lighting	60 days	Fri 1/4/16	Mon 30/5/16	5		1/4		30/5		1				
43		60 days	Thu 10/12/15	Sun 7/2/16	5	10/12	7/2		1		1				
44		45 days	Mon 31/10/16	Wed 14/12/16					1		1	31/10		14/12	
	Piling work	405 days	Wed 9/12/15	Mon 16/1/17				1	1	1	i.	I	1 1		
46 47		78 days	Wed 9/12/15	Wed 24/2/16 Mon 4/1/16		9/12 4/1		1	1		l I	1 Î		1	
47	· · · F · · · · · · · · · · · · · · · ·	27 days 30 days	Wed 9/12/15 Tue 5/1/16	Wed 3/2/16		5/12	3/2	1	1		1	1			
49		21 days	Thu 4/2/16	Wed 3/2/16		4	24/2	1	1		1	1		I.	
50	I I I I I I I I I I I I I I I I I I I	45 days	Mon 14/12/15	Wed 27/1/16		14/12	27/1		i I		1				
51		141 days	Mon 28/12/15	Mon 16/5/16					i I	i i	i I		i i		
52	H-Pile Delivery (Batch 1 to 4)	15 days	Mon 28/12/15	Mon 11/1/16	5	28/1211/1			1		1				
53	H-Pile Delivery (Batch 5)	1 day	Tue 12/4/16	Tue 12/4/16	5		12/4 12/		1		I I				
54	H-Pile Delivery (Batch 6)	1 day	Wed 13/4/16	Wed 13/4/16	5		13/4 13,	4	l l	1	l I	1 Î		1	
55		1 day	Sun 21/2/16	Sun 21/2/16			21/2 <u>- 21/2</u>	<u> </u>	1		 	1			
56		1 day	Mon 9/5/16	Mon 9/5/16				9/5 9/5	1		1	1		1	
57	Material Testing for H-pile (Batch 1)	7 days	Tue 10/5/16	Mon 16/5/16			11/2	10/5 🃩 16/5	1		1	1			
58		15 days	Thu 28/1/16	Thu 11/2/16		28/1	11/2	4/5	1		1	1			
59 60	······································	13 days	Fri 22/4/16	Wed 4/5/16 Tue 8/3/16			8/2 8/3								
60		30 days 104 days	Mon 8/2/16 Thu 10/3/16	Tue 8/3/16							1				
62	······································	71 days	Thu 10/3/16 Thu 10/3/16	Thu 19/5/16			10/3	19/5	-	1	I I	1		1	
63	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	1 day	Fri 20/5/16	Fri 20/5/16				20/5 20/5	1		1				
64	Final set table preparation	1 day	Tue 31/5/16	Tue 31/5/16				31/5	1		I I	1			
	Approval of Hiley Formula Data and Final Set Table	21 days	Wed 1/6/16	Tue 21/6/16				1/6		1	1	1		í.	

Remarks:

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

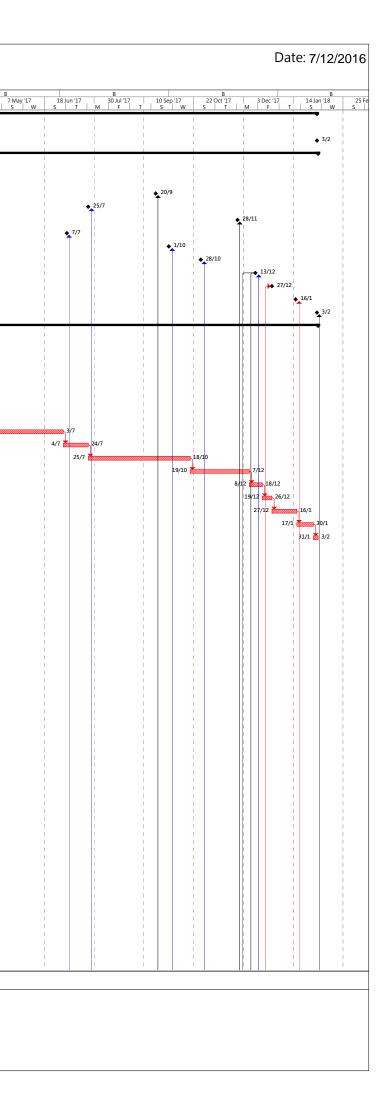
Project: SD505 - Master Construction Task Critical Path Critical Path Progress -

→ Milestone ♦

Summary

Chinese New Year site close

Page 1



a Road and Bridge Corporation			Reprovis		Date: 7/12/2
sk Name	Duration	Start	Finish		ec '17 14 Jan '18
Installation of working pile	291 days	Fri 1/4/16	Mon 16/1/17		F T S W
Pile driving	127 days	Fri 1/4/16	Fri 5/8/16		
H-pile (305x305x180) - total 399nos	127 days	Fri 1/4/16	Fri 5/8/16	1/4 5 /8	1 T
H-pile (305x305x223) - total 87nos	48 days	Sat 21/5/16	Thu 7/7/16		
Final set	39 days	Wed 22/6/16	Sat 30/7/16	30/7	
PDA test	60 days	Wed 22/6/16	Sat 20/8/16	22/6 2000 2000 2000 2000 2000 2000 2000	
As-built record submission and selection of loading test	14 days	Sat 6/8/16	Fri 19/8/16		
Loading test (including set up)*	38 days	Sat 20/8/16	Mon 26/9/16		
-	3 days	Tue 6/12/16			1
	4 days	Fri 9/12/16			
-	-				
	-				
	-				1
				9/8 9/8	
Setting up of tower crane	30 days	Thu 15/12/16	Fri 13/1/17	15/12 13/12	
	14 days	Sun 6/8/17	Sat 19/8/17		
	327 days	Thu 10/3/16	Mon 30/1/17		
Design of pile cap submission and PTS approval	40 days	Thu 10/3/16	Mon 18/4/16	10/3 2000 18/4	
Design of pile cap - Review and approval by SCU	32 days	Fri 13/5/16	Mon 13/6/16	13/5 2000000000 13/6	
ELS design submission and approval	86 days	Wed 6/4/16	Thu 30/6/16	6/4	
Construction of pile caps (ELS in Two Stage)	116 days	Tue 27/9/16	Fri 20/1/17		1
Construction of Pile cap with sheetpile	99 days	Tue 27/9/16	Tue 3/1/17	3/1	
Construction of pile cap with open cut method	28 days	Sat 24/12/16	Fri 20/1/17		
-	20 days	Wed 4/1/17	Mon 23/1/17		
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1/F					
A1 (G.L.1-5/A-K)				12/4 22/4	
				24/4 📥 6/5	
2/F	17 days	Fri 5/5/17			
A1 (G.L.1-5/A-K)	9 days	Fri 5/5/17	Sat 13/5/17		
A2 (G.L.5-9/ A-K)	9 days	Sat 13/5/17	Sun 21/5/17	18/5 📩 21/5	
3/F	17 days	Sat 20/5/17	Mon 5/6/17		
A1 (G.L.1-5/A-K)	9 days	Sat 20/5/17	Sun 28/5/17	20/5 20/5	
A2 (G.L.5-9/ A-K)	9 days	Sun 28/5/17	Mon 5/6/17	28/\$ 🚋 5/6	
4/F	17 days	Sun 4/6/17			
A1 (G.L.1-5/A-K)	9 days	Sun 4/6/17	Mon 12/6/17		
A2 (G.L.5-9/ A-K)	9 days	Mon 12/6/17	Tue 20/6/17		
R/F	15 days	Mon 19/6/17			
A1 (G.L.1-5/A-K)	8 days	Mon 19/6/17	Mon 26/6/17		
	7 days	Tue 27/6/17			
	9 days	Wed 28/6/17			
	30 days				
-					
				20/3 mar 1/3 28/3 mar 5/4	
	-				
D505 - Master Construction Task Critical Path Progress -	- Mi	lestone 🔶	Summary	Page 2	
	Hpile (205:305x23) - total 87nos Final sel PDA lest As-built record submission and selection of loading test Loading Test for FD3-P11 Loading Test for FD7.P4 Re-drive / PDA test and CAPWAP analysis for FA7-P1, FA7-P2, FA7-P3 Re-drive / PDA test and CAPWAP analysis for FA7-P1, FA7-P2, FA7-P3 (2nd time) Proof Drilling Work for FA7 Remedia work for FA7 Comments on lower crane proposal Comments on lower crane proposal Comments on lower crane ELS for TC1, TC2 Setting up of lower crane ELS for TC1, TC2 Setting up of lower crane Design of pile cap submission and PTS approval Design of pile cap submission and PS approval Construction of Pile cap with sheetpile Construction of Pile cap FA7 (including backfill) uperstructure R.C. Frame Pile cap to GJF A1 (G.L.1.5/A-K) A2 (G.L.5.9/A-K) UGF A1 (G.L.1.5/A-K) A2 (G.L.5.9/A-K) UGF A1 (G.L.1.5/A-K) A2 (G.L.5.9/A-K) UGF A1 (G.L.1.5/A-K) <	Installation of working pileImage: pile drivingImage: pile drivingImage: pile drivingImage: pile drivingPile driving127 days127 daysHaple (DSSADSATB) - total 399nos142 daysFinal set39 daysPDA test34 daysAbabit record submission and selection of loading test164 daysLoading Test for FD3-P134 daysLoading Test for FD3-P144 daysRe drive / PDA test and CAPWAP analysis for FA7-P1, FA7-P2 (Art Ima)34 daysPorofo Driling Work for FA774 daysPorofo Driling Work for FA775 daysRendrie / PDA test and CAPWAP analysis for FA7-P1, FA7-P2 (Art Ima)34 daysComments on lower crane proposal12 daysSetting up of tower crane61 daysSetting up of tower crane30 daysDismatic of lower crane14 daysSetting up of tower crane32 daysDesign of pile cap-Review and approval by SCU32 daysConstruction of pile cap-Review and approval by SCU33 days </td <td>ant hanomDecisionStartInstallation of working pile291 daysFF1 M406Pile driving127 daysFF1 M406Haple (DoSCMSSCH0) - total 3Pros46 daysSS2 23.576Final sell294 daysWed 22046PDA hest66 daysWed 22046PDA hest66 daysSS2 20.576Loading test (hickling set al)*134 daysSS2 20.576Loading test (hickling set al)*33 daysWed 22046Loading test (hickling set al)*33 daysWed 22046Loading test (hickling set al)*33 daysWed 22046Re-drive (PDA hest and CAPWAP analysis for FA1-P1, FA1-P2, FA1-P34 daysRe-drive (PDA hest and CAPWAP analysis for FA1-P1, FA1-P2, FA1-P3 (220 dil)**The 24046Neord Dilling Work for FA154 daysThe 24046Section (FA1 core crane proposal1 dayThe 24046Section (FA1 core crane proposal1 daysThe 24046Ending of Nore crane61 daysMon 141116Ending of Nore crane61 daysMon 141116Ending of Nore crane1 daysThe 24046Ending of Nore crane1 daysThe 24047Ending of Nore crane1 daysThe 24047Ending of Nore crane2 daysThe 24047Ending of Nore crane2 daysThe 24047Ending of Nore Crane2 daysThe 24047<td>BacklerDuctionStartPriorPriorIntrollation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri Marko<td< td=""><td>Image: second second</td></td<></td></td>	ant hanomDecisionStartInstallation of working pile291 daysFF1 M406Pile driving127 daysFF1 M406Haple (DoSCMSSCH0) - total 3Pros46 daysSS2 23.576Final sell294 daysWed 22046PDA hest66 daysWed 22046PDA hest66 daysSS2 20.576Loading test (hickling set al)*134 daysSS2 20.576Loading test (hickling set al)*33 daysWed 22046Loading test (hickling set al)*33 daysWed 22046Loading test (hickling set al)*33 daysWed 22046Re-drive (PDA hest and CAPWAP analysis for FA1-P1, FA1-P2, FA1-P34 daysRe-drive (PDA hest and CAPWAP analysis for FA1-P1, FA1-P2, FA1-P3 (220 dil)**The 24046Neord Dilling Work for FA154 daysThe 24046Section (FA1 core crane proposal1 dayThe 24046Section (FA1 core crane proposal1 daysThe 24046Ending of Nore crane61 daysMon 141116Ending of Nore crane61 daysMon 141116Ending of Nore crane1 daysThe 24046Ending of Nore crane1 daysThe 24047Ending of Nore crane1 daysThe 24047Ending of Nore crane2 daysThe 24047Ending of Nore crane2 daysThe 24047Ending of Nore Crane2 daysThe 24047 <td>BacklerDuctionStartPriorPriorIntrollation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri Marko<td< td=""><td>Image: second second</td></td<></td>	BacklerDuctionStartPriorPriorIntrollation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri MarkoPri MarkoPri MarkoHighe Discultation of working pilePri MarkoPri Marko <td< td=""><td>Image: second second</td></td<>	Image: second

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minimum minimum minimum <th>131 Ceiling Installation</th> <th>3 days</th> <th>Fri 7/4/17</th> <th>T</th> <th></th> <th>S W</th> <th>S T</th> <th>MF</th> <th>T S W</th> <th>S T</th> <th>M F T</th> <th>S W</th> <th>S T N</th> <th></th> <th>S W S T M</th> <th>FTSW</th> <th>S T N</th> <th></th> <th><u>s w s</u></th> <th></th> <th>F T S</th> <th></th>	131 Ceiling Installation	3 days	Fri 7/4/17	T		S W	S T	MF	T S W	S T	M F T	S W	S T N		S W S T M	FTSW	S T N		<u>s w s</u>		F T S	
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189 folding partitions 30 days Sun 25/12/16 Mon 23/17 190 furniture, cupboards, shelving, elc. 30 days Sun 25/12/16 Mon 23/17 190 furniture, cupboards, shelving, elc. 30 days Sun 25/12/16 Mon 23/17 191 informongeles 100 day Thu 19/16 Fil 9/12/16 191 clifica partitions 24 days Thu 15/12/16 Sun 29/17/17 192 celling System 46 days Thu 15/12/16 Sun 29/17/17 194 Locker system 30 days Thu 15/12/16 Sun 29/17/17 194 Locker system 30 days Thu 15/12/16 Sun 29/17/17 194 Locker system 30 days Thu 15/12/16 Sun 29/17/17 194 Locker system 30 days Thu 15/12/16 Sun 29/17/17 194 Locker system 10 days Thu 15/12/16 Sun 29/17/17 194 Locker system 10 days Thu 15/12/16 Sun 29/17/17 194 Locker system 10 days Thu 15/12/16 Sun 29/17/17 194 Locker system 10 days Th	Accusite timber that partor system						l I		1	T		i.									i i	
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192 Totlet cubicle partitions 28 days Sun 8/1/17 Sat 4/2/17 193 Ceiling System 46 days Thu 15/1/2/16 Sun 29/1/17 194 Locker system 30 days Thu 15/1/2/16 Sun 29/1/17 195 External recycle plastic features 45 days Thu 15/1/2/16 Sat 28/1/17 195 External recycle plastic features 45 days Thu 15/1/2/16 Sat 28/1/17 196 Friti Strite 45 days Thu 15/1/2/16 Sat 28/1/17 195 External recycle plastic features Summary Summary Page 3 Page 3											1/9		-									
193 Celling System 46 days Thu 15/12/16 Sun 29/11/17 194 Locker system 30 days Thu 15/12/16 Fri 13/1/17 195 External recycle plastic features 45 days Thu 15/12/16 Sal 28/1/17 196 External recycle plastic features 45 days Thu 15/12/16 Sal 28/1/17 196 External recycle plastic features Summary Fri 13/1/17 Sal 28/1/17 197 Task Critical Path Mileston Summary Page: Statemark in the system of plastic features in the system of plastic											i (1) 1 (1)		1		4/2							
194 Locker system 30 days Thu 15/12/16 Fri 13/1/17 195 External recycle plastic features 45 days Thu 15/12/16 Sat 28/1/17 Image: Subside - Subside - Subside - Summary Task Critical Path Resonance - Summary Summary Remarks: * Page 3														15/12	29/1							
195 External recycle plastic features 45 days Thu 15/12/16 Sat 28/1/17 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3 Project: SSDB05 Master Construction Date: Wed 7/12/16 Thu 15/12/16 Sat 28/1/17 Image 3									I I			1	I.	15/12	13/1							
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Page 3 Toelay in selection of pile for loading test subject to EOT claim	rigies: SSD505 - Master Construction Task Progress and 27/12/16 Path Progress	м	ilestone 🔶	Summary 🛡							`	I`					<u></u>	<u> </u>	<u></u>		<u>ı </u>	<u> </u>
Delay in selection of pile for loading test subject to EOT claim										Dogo 0												
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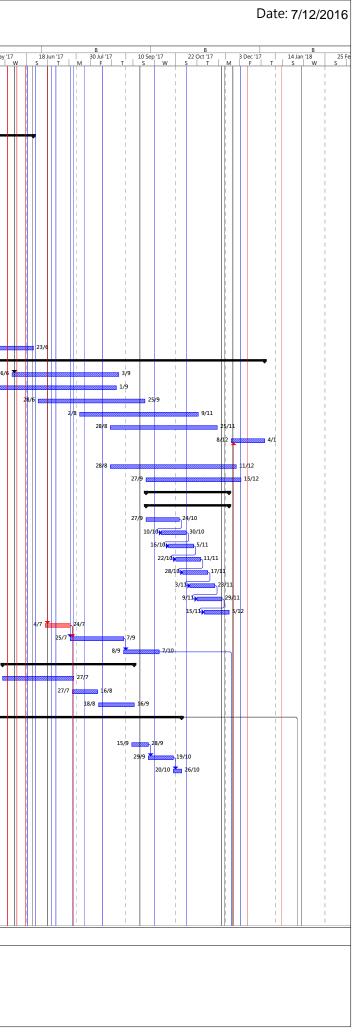
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ID	Fask Name	Duration	Start	Finish	В	В	В	В	В		B	5		В	_
196	Recycle plastic trellis (Type 1)	45 days	Thu 15/12/16	Sat 28/1/17	ep '15 8 Nov '15 20 Dec '15 T M F T S W	31 Jan '16 13 Mar '16 S T M F T	24 Apr '16 5 Jun '16 S W S T	5 17 Jul '16 28 Aug '16 M F T S V	9 Oct '16 S T I	20 Nov '16 1 Jan M F T S 15/12	n '17 W 28/1	12 Feb '17 S T M	26 Mar '17 1 F T	7 May S	17
197	Recycle wood plastic composite with aluminium core section wall cladding	45 days	Sat 31/12/16	Mon 13/2/17	7					31/12		13/2			
198	Vinyl floor tile	21 days	Sat 31/12/16	Fri 20/1/17	7					31/12	20/1				
199	Carpet tile	21 days	Sat 31/12/16	Fri 20/1/17	7				li i	31/12	20/1				
200	External and internal paint	30 days	Sat 31/12/16	Sun 29/1/17	7				li i	31/12	29/1				
201	Shop drawing Submission and Approval (details refer to submission schedule)	274 days	Fri 23/9/16	Fri 23/6/17	7							+		-++-	╈
202	Glazing doors	30 days	Thu 15/12/16	Fri 13/1/17	7					15/12 13	/1				
203	Metal Door and access panels	60 days	Sat 31/12/16	Tue 28/2/17	7					31/12		28/2		i i	
204 205	Recycled Plastic Feature	60 days	Mon 16/1/17	Thu 16/3/17				23/9	0.01	16/1 📷	1	16/3		i de la composición de la comp	
205	BMU System	47 days	Fri 23/9/16	Tue 8/11/16				23/9	8/11	16/1 📷		1/3		l I	
200	Suspensed Ceiling and Fire Resisting Enclosure System Fall Arrest System	45 days 30 days	Mon 16/1/17 Sun 12/2/17	Wed 1/3/17 Mon 13/3/17	7		 			10/1	12/2			l I	
208	Acoustic Timber Wall Panel System	45 days	Sun 22/1/17	Tue 7/3/17	7					22/1		7/3			
209	Acoustic Operable Wall System	30 days	Sun 22/1/17 Sun 22/1/17	Mon 20/2/17	7				li i	22/1		20/2	ļ		
210	Timber Door	45 days	Mon 16/1/17	Wed 1/3/17	7					16/1 🔤		1/3			
211	Timber Cabinet	45 days	Wed 15/2/17	Fri 31/3/17	7				i i		15/2		31/3	i i	
212	Roller Shutters and Fire Shutters	41 days	Sun 19/3/17	Fri 28/4/17			I I				1	19/3	28/	y4	
213	Metal railing system	30 days	Sat 18/2/17	Sun 19/3/17	7		I I I I				18/2	19/3	3		
214	Waterproofing System	30 days	Sun 25/12/16	Mon 23/1/17	7		I I I I			25/12	23/1				
215	Toilet and Shower Cubicle Partition Systems	41 days	Sun 25/12/16	Fri 3/2/17	7				i i	25/12	3/2				
216	Changing Room Lockers System	30 days	Sun 25/12/16	Mon 23/1/17	7				li i	25/12	23/1				
217	Signage	40 days	Mon 15/5/17	Fri 23/6/17	7								15/	5/5 🗙	-
	Internal Finishing Works	235 days	Mon 15/5/17	Thu 4/1/18											Ţ
219 220	Partition Wall and Door Sub-frame Installation (after completion of 3/F)	90 days	Tue 6/6/17	Sun 3/9/17									1	5/5	Ί
220	Window and Louver	110 days	Mon 15/5/17	Fri 1/9/17							1		15/	/>	
222	Internal Waterproofing works Plastering, Tiling & Laying Floor Screed	90 days	Wed 28/6/17 Wed 2/8/17	Mon 25/9/17 Thu 9/11/17	7						1				
223	Carpentry & Joinery/ Ironmongery and Door Installation	100 days 90 days	Mon 28/8/17	Sat 25/11/17					li i		i		j	(
224	Carpentry & Joinery/ Ironmongery and Door Installation (Rooms with curtain wall will	28 days	Fri 8/12/17	Thu 4/1/18							i i				
225	commence after glass panel installation, mainly 3/F, 4/F office) False Ceiling	106 days	Mon 28/8/17	Mon 11/12/17										I I	
226	Flooring Finishes	80 days	Wed 27/9/17	Fri 15/12/17	7						1				
227	Painting	70 days	Wed 27/9/17	Tue 5/12/17	7				li i		i		ļ		
228	Internal painting	70 days	Wed 27/9/17	Tue 5/12/17	7						i i				
229	G/F	28 days	Wed 27/9/17	Tue 24/10/17	7										
230	UG/F	21 days	Tue 10/10/17	Mon 30/10/17	7						i i			i i	
231	1/F	21 days	Mon 16/10/17	Sun 5/11/17	7										
232	2/F	21 days	Sun 22/10/17	Sat 11/11/17	7						1			J	
233	3/F	21 days	Sat 28/10/17	Fri 17/11/17							1			1	
234	4/F R/F	21 days	Fri 3/11/17 Thu 9/11/17	Thu 23/11/17 Wed 29/11/17							i.				
236	K/F UR/F	21 days 21 days	Wed 15/11/17	Tue 5/12/17					i i		i.				
237	External Wall Preparation Works for Curtain Wall Installation	21 days	Tue 4/7/17	Mon 24/7/17											
238	External Wall Plastering and Tiling Works	45 days	Tue 25/7/17	Thu 7/9/17							1				
239	External painting	30 days	Fri 8/9/17	Sat 7/10/17		I I I I	I I				1				
	Roofing works	111 days	Mon 29/5/17	Sat 16/9/17		I I I I	I I I I				1			 •	┝
241	Waterproofing Application	60 days	Mon 29/5/17	Thu 27/7/17			I I I I				1			29/5	
242	Waterproofing Testing	21 days	Thu 27/7/17	Wed 16/8/17	7						i.				
243	Roof tiling	30 days	Fri 18/8/17	Sat 16/9/17	7										
	Sanitary fittings installation	421 days	Thu 1/9/16	Thu 26/10/17	7							+++	┝╾┥╾╾┥┥	-++-	+
245	Drawing Submisssion and Approval (details refer to submission schedule)	100 days	Thu 1/9/16	Fri 9/12/16		I I I I	I I	1/9		9/12	1				
246	G/F ~ 1/F	14 days	Fri 15/9/17	Thu 28/9/17		I I I I	I I I I				1				
247	2/F ~ 4/F	21 days	Fri 29/9/17	Thu 19/10/17							Í.				
248	R/F ~ UR/F	7 days	Fri 20/10/17	Thu 26/10/17							_				
	Submission of Aluminium window/ louvre & Curtain Wall	196 days	Mon 22/8/16	Sun 5/3/17					1						
250 251	Submission of Aluminium window & louvre	136 days	Mon 22/8/16	Wed 4/1/17				22/8 22/8			1				
251	Submission of shop drawing and calculation Paview & comment by P&T	1 day	Mon 22/8/16 Tue 23/8/16	Mon 22/8/16 Thu 6/10/16		I I I I	I I I I	23/8	6/10		I I				
252	Review & comment by P&T Re-submissoion	45 days 60 days	Fri 7/10/16	Mon 5/12/16		I I I I	I I I I	1 7/2		5/12	1				
254	Approval by P&T	30 days	Tue 6/12/16	Wed 4/1/17					1	6/12 4/1	1				
255	Submission of Curtain Wall	136 days	Mon 22/8/16	Wed 4/1/17											
256	Submission of shop drawing and calculation	1 day	Mon 22/8/16	Mon 22/8/16				22/8 22/8							
257	Review & comment by P&T	45 days	Tue 23/8/16	Thu 6/10/16			I I	23/8	6/10					i -	
258	Re-submissoion	60 days	Fri 7/10/16	Mon 5/12/16		I I I I	I I I I	7/	0	5/12	1				
	Approval by P&T	30 days	Tue 6/12/16	Wed 4/1/17		1			1.	6/12					

*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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Chinese New Year site close



				Renrov	isionii	na ot Fr	-HD Sa	ai Yee St	reet Fn	vironm	hental F	Ivaiene	Offices	-cum-ve	hicle Depot	at Yen Mir	na Ro
ID	ask Name	Duration	Start	Finish		в		В			R		В		. В		в
200		24 10 1	Th. 45/40/4/	TL 40/4/	iep '15 T	8 Nov '15 M F	20 Dec T S	'15 31 Ja W S	n'16 13 T M	Mar'16 F T	24 Apr '16 S W	5 Jun '16 S T	17 Jul '16 M F	28 Aug '16 T S W	9 Oct '16 S T M	20 Nov '16 1 Jan F T S	'17 W
260 261	Submission of Performance mock-up CW1	36 days	Thu 15/12/16	Thu 19/1/1		i i		i	1			i i	i i	i.		15/12 15/12	i.
261	Submission of shop drawing and test proposal	1 day	Thu 15/12/16	Thu 15/12/1		l I		I	1			l I	i i	i.	1	16/12 29/12	
262	Review & comment by P&T	14 days	Fri 16/12/16	Thu 29/12/1		1						1				30/12 5/1	
	Re-submissoion	7 days	Fri 30/12/16	Thu 5/1/1	_	1	I.	1	1	1		1	1	1			L9/1
264	Approval by P&T	14 days	Fri 6/1/17	Thu 19/1/1		l I	I.	l l	1			l I		i i		0/1	13/1
265	Submission of shop drawing for visual mock-up CW3 & control mock-up	36 days	Thu 15/12/16	Thu 19/1/1		1						l I					
266	Submission of shop drawing	1 day	Thu 15/12/16	Thu 15/12/1		l L	I.		1	1		l L	1	1	1	15/12 15/12	
267	Review & comment by P&T	14 days	Fri 16/12/16	Thu 29/12/1		l I	I.	I I	1			l I		i i		16/12 29/12	i i
268	Re-submissoion	7 days	Fri 30/12/16	Thu 5/1/1		1	I					1		l I		30/12 5/1	
269	Approval by P&T	14 days	Fri 6/1/17	Thu 19/1/1	_	l L		1	1	1		l L	1	1		6/1	19/1
270	Submission of glass & PVDF colour sample	95 days	Thu 1/12/16	Sun 5/3/1		l.						l			•		
271	Preparation	30 days	Thu 1/12/16	Fri 30/12/1	_	i I		I I	1	1		i I	r I	I I	1/12	30/12	
272	Review & comment by P&T	30 days	Sat 31/12/16	Sun 29/1/1		l I			1	1		l I	1	1		31/12	29/1
273	Re-submissoion	21 days	Mon 30/1/17	Sun 19/2/1		l I		i.		ļ		l I	i.		1	30	1
74	Approval by P&T	14 days	Mon 20/2/17	Sun 5/3/1	_	i I		I I	1	1		i I	r I	i I			20/2
275	Submission of window hardwares & Misc. sample	95 days	Thu 1/12/16	Sun 5/3/1		I I	1	1	1	1		I I	1	I I		• • • • •	1
276	Preparation	30 days	Thu 1/12/16	Fri 30/12/1	6	I.		i.	l.	i.		I.	1	i.	1/12	30/12	
277	Review & comment by P&T	30 days	Sat 31/12/16	Sun 29/1/1	7	i I		I I		1		r I	i I	l I		31/12	29/1
278	Re-submissoion	21 days	Mon 30/1/17	Sun 19/2/1	7	I I		1	1	1		l I	1			30/	/1
279	Approval by P&T	14 days	Mon 20/2/17	Sun 5/3/1	7	l.		Ì		į		l.	1	1			20/2
280	laterial Procurement & shop fabrication of Aluminium window/ louvre & Curtain Wall	240 days	Thu 5/1/17	Fri 1/9/1	7	i I		I I		1		r I	1	l I			1
281	Aluminium window & louvre	240 days	Thu 5/1/17	Fri 1/9/1	7	1	1	1	1	1		1	1	I I		╎╺┥──┤	
82	Die making, extrusion & PVDF coating	70 days	Thu 5/1/17	Wed 15/3/1	7	l I	1	Ì	1			l I	1	I.		5/1	
83	Aluminium frame fabrication	90 days	Thu 16/3/17	Tue 13/6/1	7	i I		I I	1	1		i I		I I			
84	Glass	80 days	Wed 14/6/17	Fri 1/9/1	7	l I	1	1	1	1		I I	1	I I			1
35	Curtain Wall	201 days	Thu 5/1/17	Mon 24/7/1	_	l.		i i	-	Ì		l.	1	l.			
36	Die making, extrusion & PVDF coating	90 days	Thu 5/1/17	Tue 4/4/1		I		I.	1	1		i I	ĺ			5/1	
87	Aluminium frame fabrication	38 days	Tue 9/5/17	Thu 15/6/1	_	l I	1	I I	1	1		l I	1	l I			1
88	Glass	71 days	Mon 15/5/17	Mon 24/7/1		l I		l.	1	Ì		l I		T I			
89	Performance mock up for CW1	130 days	Fri 20/1/17	Mon 29/5/1		i I		I.	1	1		i I	ĺ			- j - j - 🖊	
90	Die making, extrusion & PVDF coating	90 days	Fri 20/1/17	Wed 19/4/1		l I						l I				20/1	. 1
91	Aluminium frame fabrication	40 days	Thu 20/4/17	Mon 29/5/1	_	l.		I.	1	1		l.	1	1			1
92	Glass	40 days	Thu 20/4/17	Mon 29/5/1		I	I.		1			l I		i.			
93	Visual mock up for CW3 & control mock up	120 days	Fri 20/1/17	Fri 19/5/1	_	1	1					1					
294	Die making, extrusion & PVDF coating	90 days	Fri 20/1/17	Wed 19/4/1		l I			1	1		l L	1	1		20/1	. 1
95	Aluminium frame fabrication	30 days	Thu 20/4/17	Fri 19/5/1		l						l		i i	i i		i
296	Glass	30 days	Thu 20/4/17	Fri 19/5/1	_	l I	I.		1			l I		l l			
	ite Works of Aluminium window/ louvre & Curtain Wall		Mon 27/3/17	Mon 25/12/1		l I	1	1	1	1		l I					1
98		274 days			_	l.						l					
98	Aluminium window & louvre	232 days	Mon 27/3/17 Mon 27/3/17	Mon 13/11/1	_	i I		I I	1	1		i I	í I	I I			1
99 00	Site Survey	30 days		Tue 25/4/1		I I		I I	1	I I		I.	1	I.			1
01	Frame Installation	90 days	Mon 5/6/17	Sat 2/9/1		 		i.		ļ		 	i.		i i		
301 302	Glazing work	60 days	Fri 25/8/17	Mon 23/10/1		i I		I I	1	1		i I	r I	I I			
302	Field Waterlightness test	21 days	Tue 24/10/17	Mon 13/11/1		l I		I I	1	1		I I	1	I I			1
	Curtain Wall	274 days	Mon 27/3/17	Mon 25/12/1		I.		Ì		i		I.	1	1			1
304	Site Survey	30 days	Mon 27/3/17	Tue 25/4/1		l.		I.	1	1		i I	i i	l.			
05	Curtain Wall Frame Installation	86 days	Tue 25/7/17	Wed 18/10/1		l I		I.	1	1		I I	1	I I			1
06	Curtain Wall Glazing work	50 days	Thu 19/10/17	Thu 7/12/1		l I	1	1	1	l		1		T T			
07	Field Watertightness test	18 days	Fri 8/12/17	Mon 25/12/1		l.		l.	1	1		l.	i i	l.			
08	Performance mock up for CW1	30 days	Sun 30/4/17	Mon 29/5/1		1	1	I I		1		I I	1				1
)9	Frame Installation	5 days	Sun 30/4/17	Thu 4/5/1		l I	1	Ì	1	į		l I	1	I.			1
0	Glazing work	3 days	Fri 5/5/17	Sun 7/5/1	_	i I		I.	1	1		i I	í I	l.	i i		
1	Pre-test	1 day	Mon 8/5/17	Mon 8/5/1	7	l I	1	1	1	1		1	1				1
2	Offical test	2 days	Mon 15/5/17	Tue 16/5/1	7	l.		Ì		į		l.	1				1
3	Review of test report	21 days	Tue 9/5/17	Mon 29/5/1	7	i I		I I	1	1		i I	r I	I I			
4	Visual mock up for CW3 & control mock up	21 days	Sun 30/4/17	Sat 20/5/	7	l I			1	1		l I	1	L L			1
5	Frame Installation	14 days	Sun 30/4/17	Sat 13/5/1	7	I		Ì		į		I	1				į.
.6	Glazing work	7 days	Sun 14/5/17	Sat 20/5/1	7	i I		I I	1	1		i I	r I	I I			
17	Recycled products installation (cladding, architectural features, balustrades etc)	210 days	Mon 3/4/17	Sun 29/10/1	7	l I			1	1		l I	1	1			1
18	Material and shopdrawing submissions	60 days	Mon 3/4/17	Thu 1/6/1	7	l I		Ì		į		i I	1				1
210	Fixing of GMS angle	60 days	Sun 2/7/17	Wed 30/8/1		i I		I I	1	1		i I	r I	i I			
319	Installation of Recycle wood plastic	60 days	Thu 31/8/17	Sun 29/10/1		I I	1	1	1	1		I I	1	I I			1
319 320							i.	i i	i i			1	1	L	1 i	i l	i i
		191 days	Mon 22/5/17	Tue 28/11/1	7	1		1						1	1 A		
20	General metal works (include shutters, railings and other general items etc.)	191 days 60 days				- - 	i I	i I					l I	l I			i I
20 21		191 days 60 days 60 days	Mon 22/5/17 Mon 22/5/17 Sat 30/9/17	Tue 28/11/1 Thu 20/7/1 Tue 28/11/1	7	' 						 		 			

Project: SSD505 - Master Construction Date: Wed 7/12/16 Task

*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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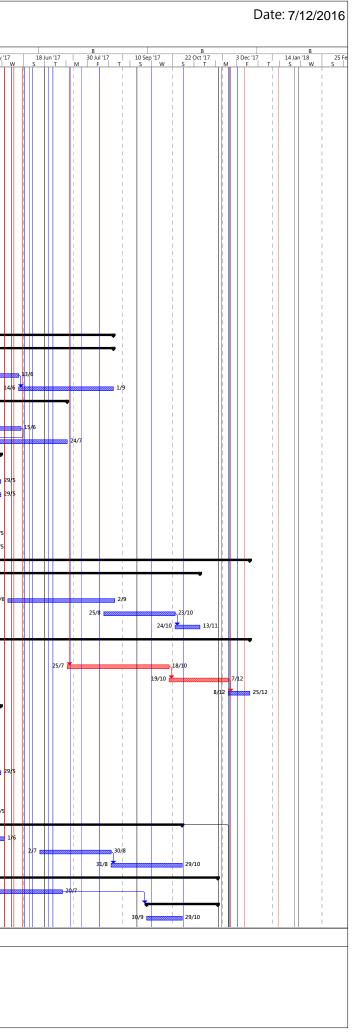
Critical Path

Progress

Milestone 🔶

Summary

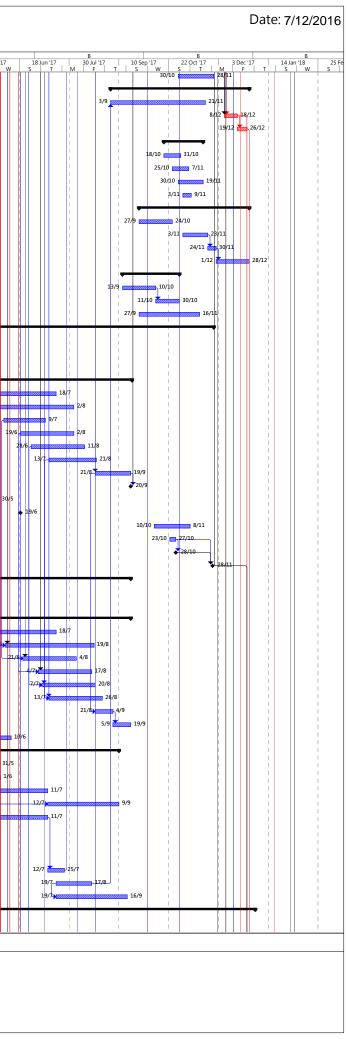
Chinese New Year site close



					5	ee Street Enviror		,,				5		505)
ID	Task Name	Duration	Start	Finish	B p '15 8 Nov '15 20 Dec '15 T M F T S W	B 31 Jan '16 13 Mar '16 S T M F 1	B 24 Apr '16 T S W	5 Jun '16 17 Jul '16 S T M F	28 Aug '16 T S W	9 Oct '16 S T	B 20 Nov '16 3	B 1 Jan '17 S W S	12 Feb '17	26 Mar '17 4 F
25	Metal Railing	30 days	Mon 30/10/17	Tue 28/11/17					1	1				
!6 !7	External and Landscaping works	117 days	Sun 3/9/17	Thu 28/12/17				1	l I					
8	Roads and pavings Removal of scaffoldings	80 days	Sun 3/9/17 Fri 8/12/17	Tue 21/11/17 Mon 18/12/17										
9	EVA Construction and paving	11 days 8 days	Tue 19/12/17	Tue 26/12/17			1 I 1 I	1				1		
0	Hard Landscaping	33 days	Wed 18/10/17	Sun 19/11/17			1 1		1				i	
31	R.C. Planter	14 days	Wed 18/10/17	Tue 31/10/17			i i			i i				
32	Movable planter	14 days	Wed 25/10/17	Tue 7/11/17										
33	Trellises	21 days	Mon 30/10/17	Sun 19/11/17									i li	
34	Benches	7 days	Fri 3/11/17	Thu 9/11/17										
35	Soft Landscaping	93 days	Wed 27/9/17	Thu 28/12/17					1					
36	Soft Landscaping - Material Submission/ Preparation works	28 days	Wed 27/9/17	Tue 24/10/17			1 1						r	
37	Soft Landscaping - Filing of soil	21 days	Fri 3/11/17	Thu 23/11/17			1							
38	Soft Landscaping - Plant Delivery	7 days	Fri 24/11/17	Thu 30/11/17									r [
39	Soft Landscaping - Planting works (Plus 12-months Establishment Period)	28 days	Fri 1/12/17	Thu 28/12/17					l I				, ¦	
10	Site enclosure and divisions	48 days	Wed 13/9/17	Mon 30/10/17				I I					(
41	Construction of fence wal	28 days	Wed 13/9/17	Tue 10/10/17			1 I 1 I	I					(
42	Installation of metal gates	20 days	Wed 11/10/17	Mon 30/10/17										
43	Builder's works for external services Plumbing Services (see also detail programme for Plumbing trade)	51 days 624 days	Wed 27/9/17 Tue 15/3/16	Thu 16/11/17 Tue 28/11/17		· · ·	i i		1			i	<u> </u>	
44	Drawing Submission and Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16		1/4-1/4							i TI	
46	Equipment & Material submission Approval (details refer to submission schedule)	170 days	Tue 15/3/16	Wed 31/8/16		15/3			31/8				, It	
47	Submission / Application of Form WWO 046 (Part I & II)	76 days	Wed 20/7/16	Mon 3/10/16				20/7	-	3/10			, It	
48	G/F to R/F Plumbing Installation	124 days	Sat 20/5/17	Wed 20/9/17										
49	G/F Plumbing Installation	60 days	Sat 20/5/17	Tue 18/7/17			1 1		1				r It	
50	UG Plumbing Installation	65 days	Tue 30/5/17	Wed 2/8/17									r [
51	1/F Plumbing Installation	35 days	Mon 5/6/17	Sun 9/7/17									i li	
52	2/F Plumbing Installation	45 days	Mon 19/6/17	Wed 2/8/17										
53	3/F Plumbing Installation	45 days	Wed 28/6/17	Fri 11/8/17										
54	4/F Plumbing Installation	40 days	Thu 13/7/17	Mon 21/8/17			1 1		T T				r I li	
55	R/F Plumbing Installation	30 days	Mon 21/8/17	Tue 19/9/17		i i	1						r Li	
856	Submission of Form WWO 046 (Part IV)	1 day	Wed 20/9/17	Wed 20/9/17									r [
57	Handover of All Water Tank & Pump Rooms at UG	1 day	Tue 30/5/17	Tue 30/5/17		I I I							i li	
58	Handover of All Water Tank & Pump Rooms at 2/F	1 day	Mon 19/6/17	Mon 19/6/17										
59	Testing & Commissioning	30 days	Tue 10/10/17	Wed 8/11/17									i II	
60	WSD Inspection	5 days	Mon 23/10/17	Fri 27/10/17			1 1		T T				r I li	
61 62	Anticipated Receipt of Form WWO 046 (Part V)	1 day	Sat 28/10/17	Sat 28/10/17		i i	1						r Li	
	Obtain Water Certificate Drainage Services (see also detail programme for Drainage trade)	1 day 554 days	Tue 28/11/17 Tue 15/3/16	Tue 28/11/17 Tue 19/9/17			<u> </u>							
64	Drawing Submission and Approval (details refer to submission schedule)	1 day	Fri 1/4/16	Fri 1/4/16		1/4 1/4							i li	
65	Equipment & Material submission Approval (details refer to submission schedule)	120 days	Tue 15/3/16	Tue 12/7/16		15/3		12/7					1 j	
66	Aboveground G/F to UR Drainage Installation	131 days	Fri 12/5/17	Tue 19/9/17										
67	G/F Drainage Installation	60 days	Sat 20/5/17	Tue 18/7/17										
68	UG Drainage Installation	75 days	Tue 6/6/17	Sat 19/8/17			i i						r Li	
69	1/F Drainage Installation	45 days	Wed 21/6/17	Fri 4/8/17									r [
70	2/F Drainage Installation	45 days	Tue 4/7/17	Thu 17/8/17									, It	
71	3/F Drainage Installation	45 days	Fri 7/7/17	Sun 20/8/17		I I I I				1			(
72	4/F Drainage Installation	45 days	Thu 13/7/17	Sat 26/8/17			1 I 1 I	I		1			(I I I	
73	R/F Drainage Installation	15 days	Mon 21/8/17	Mon 4/9/17				1					(II	
74	UR Drainage Installation	15 days	Tue 5/9/17	Tue 19/9/17										
75	Testing & Commissioning	30 days	Fri 12/5/17	Sat 10/6/17									, I÷	1
76	Underground Drainage	345 days	Fri 30/9/16	Sat 9/9/17				I	-	1	15/22			
77	Inside Building Installation	168 days	Thu 15/12/16	Wed 31/5/17		 					15/12	-		
78 79	Inside Building Drain Test	168 days	Fri 16/12/16	Thu 1/6/17				l I				-		
79 80	Outside Building Installation (within site boundary)	60 days 60 days	Sat 13/5/17 Wed 12/7/17	Tue 11/7/17 Sat 9/9/17									, Li	
30	Outside Building Drain Test (within site boundary) Excavation Permit Application	65 days	Mon 8/5/17	Tue 11/7/17										8
12	Preparation of Form HBP1	1 day	Fri 30/9/16	Fri 30/9/16					30/9 🔒 3	0/9			, I÷	
33	Submission of Form HBP1	21 days	Sat 1/10/16	Fri 21/10/16				1	- L	21/10				
84	Construction of Terminal Manholes	25 days	Fri 17/2/17	Mon 13/3/17			1 I 1 I	I I				17/2	18/3	
85	Final Connection to Government Manhole (tentative date, subject to XP period)	14 days	Wed 12/7/17	Tue 25/7/17									, E	
86	Final Drainage Submission	30 days	Wed 19/7/17	Thu 17/8/17										
87	DSD Inspection	60 days	Wed 19/7/17	Sat 16/9/17										
888	Electrical installations (see also detail programme for EL trade)	730 days	Mon 4/1/16	Tue 2/1/18			<u> </u>	1	1			+ +	 +	
89	Drawing Submisssion and Approval (details refer to submission schedule)	267 days	Mon 4/1/16	Mon 26/9/16	4/1				26/	9			(

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

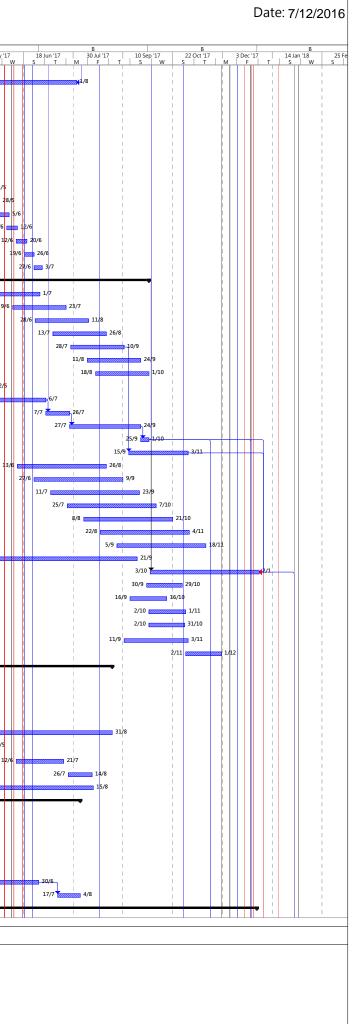
Chinese New Year site close



				Reprovisio	oning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
D T:	sk Name	Duration	Start	Finish	
20	Equipment & Material Submission and Approval (datails refer to submission schedule)	210 days	Tuo 1/2/14	iep '1'	B B
90 91	Equipment & Material Submisssion and Approval (details refer to submission schedule) Conceal conduit & Builder work for Electrical / ELV System	210 days 190 days	Tue 1/3/16 Tue 24/1/17	Mon 26/9/16 Tue 1/8/17	
	G/F (G.L.1-5/A-K)	14 days	Sun 26/2/17	Sat 11/3/17	
	G/F (G.L.5-9/A-K)	14 days	Sat 11/3/17	Fri 24/3/17	11/3 000000 24/3
	UG/F (G.L.1-5/A-K)	11 days	Thu 23/3/17	Sun 2/4/17	
95	UG/F (G.L.5-9/A-K)	10 days	Sun 2/4/17	Tue 11/4/17	
96	1/F (G.L.1-5/A-K)	13 days	Wed 12/4/17	Mon 24/4/17	
897	1/F (G.L.5-9/A-K)	13 days	Mon 24/4/17	Sat 6/5/17	
	2/F (G.L.1-5/A-K)	9 days	Fri 5/5/17	Sat 13/5/17	
	2/F (G.L.5-9/A-K)	9 days	Sat 13/5/17	Sun 21/5/17	
	3/F (G.L.1-5/A-K)	9 days	Sat 20/5/17	Sun 28/5/17	
	3/F (G.L.5-9/A-K)	9 days	Sun 28/5/17	Mon 5/6/17	
	4/F (G.L.1-5/A-K)	9 days	Sun 4/6/17	Mon 12/6/17	
	4/F (G.L.5-9/A-K) R/F (G.L.1-5/A-K)	9 days 8 days	Mon 12/6/17 Mon 19/6/17	Tue 20/6/17 Mon 26/6/17	
	R/F (G.L.5-9/A-K) R/F (G.L.5-9/A-K)	8 days 7 days	Tue 27/6/17	Mon 26/6/17 Mon 3/7/17	
06	G/F to R/F Electrical Installation - First fixing	137 days	Thu 18/5/17	Sun 1/10/17	
07	G/F Electrical installation	45 days	Thu 18/5/17	Sat 1/7/17	
08	UG Electrical installation	45 days	Fri 9/6/17	Sun 23/7/17	
109	1/F Electrical Installation	45 days	Wed 28/6/17	Fri 11/8/17	
10	2/F Electrical installation	45 days	Thu 13/7/17	Sat 26/8/17	
11	3/F Electrical Installation	45 days	Fri 28/7/17	Sun 10/9/17	
12	4/F Electrical Installation	45 days	Fri 11/8/17	Sun 24/9/17	
13	R/F Electrical Installation	45 days	Fri 18/8/17	Sun 1/10/17	
14	Completion of CLP G/F Tx. Room	1 day	Mon 22/5/17	Mon 22/5/17	
15	Installation Work of E&M Services & builder's works inside Tx. Room	45 days	Tue 23/5/17	Thu 6/7/17	I I I I I I I I I I I I I I I I I I I I I I
16	Handover G/F Tx. Room for CLP Installation Work	20 days	Fri 7/7/17	Wed 26/7/17	
17	CLP Installation Work in Tx. Room	60 days	Thu 27/7/17	Sun 24/9/17	
18	CLP Inspection & Power Energisation	7 days	Mon 25/9/17	Sun 1/10/17	
19	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	
21	UG/F 1/F	75 days	Tue 27/6/17	Sat 9/9/17	
	2/F	75 days	Tue 11/7/17 Tue 25/7/17	Sat 23/9/17 Sat 7/10/17	
25	2/F 3/F	75 days 75 days	Tue 25/7/17 Tue 8/8/17	Sat 7/10/17 Sat 21/10/17	
25	4/F	75 days	Tue 22/8/17	Sat 21/10/17	
	R/F	75 days	Tue 5/9/17	Sat 4/11/17	
	Earthing & Lightning System	280 days	Fri 16/12/16	Thu 21/9/17	
28	Testing & Commissioning (Electrical Installation)	92 days	Tue 3/10/17	Tue 2/1/18	
29	T&C for Earthing & Lightning System	30 days	Sat 30/9/17	Sun 29/10/17	
	T&C for Megger Test of Power Cable & Wiring	31 days	Sat 16/9/17	Mon 16/10/17	
31	T&C for Distribution Board	31 days	Mon 2/10/17	Wed 1/11/17	
32	T&C for Power Management System	30 days	Mon 2/10/17	Tue 31/10/17	
33	T&C for Lighting Fitting & Small Power	54 days	Mon 11/9/17	Fri 3/11/17	I I
34	T&C for PV System	30 days	Thu 2/11/17	Fri 1/12/17	
	LVSB. System	504 days	Fri 15/4/16	Thu 31/8/17	
36	Drawing Submisssion and Approval of LVSB (details refer to submission schedule)	111 days	Fri 13/5/16	Wed 31/8/16	13/5
37	Equipment & Material Submisssion and Approval of LVSB (details refer to submission	92 days	Fri 15/4/16	Fri 15/7/16	15/4
	schedule)				
38	Handover LV Switch Room for Elect / LV Sw.Bd.	1 day	Sat 15/4/17	Sat 15/4/17	
39	E&M Work inside LV Switch Room	138 days	Sun 16/4/17	Thu 31/8/17	
40	Factory Test for LV Switchboard	19 days	Tue 2/5/17	Sat 20/5/17	
41	LV Cubicle Switchboard Installation	40 days	Mon 12/6/17	Fri 21/7/17	
42	Site Test for LV Switchboard	20 days	Wed 26/7/17	Mon 14/8/17	
143	Handover 1/F-4/F Sub-S.W. Rm. for Electrical Work	106 days	Tue 2/5/17	Tue 15/8/17	
	Generator	551 days	Mon 1/2/16	Fri 4/8/17	
45	Drawing Submisssion and Approval of Generator (details refer to submission schedule)	140 days	Thu 14/4/16	Wed 31/8/16	14/4 31/0 1/2 30/6
	Equipment & Material Submisssion and Approval of Generator (details refer to submission schedule)	151 days	Mon 1/2/16	Thu 30/6/16	
47	Submission Application for EPD (Generator Set System)	62 days	Mon 22/8/16	Sat 22/10/16	
48	Handover 3/F & R/F Generator Room for Installation Work		Mon 17/4/17	Sun 30/4/17	
49		14 days			
49 50	Diesel Generator Installation Site Test for Diesel Generator Installation	60 days	Tue 2/5/17 Mon 17/7/17	Fri 30/6/17 Fri 4/8/17	
- v	Site Lest for Diesei Generator Installation ELV. System	19 days 383 days	Won 1////1/ Wed 14/12/16	Sun 31/12/17	
				JUL 31/12/17	

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

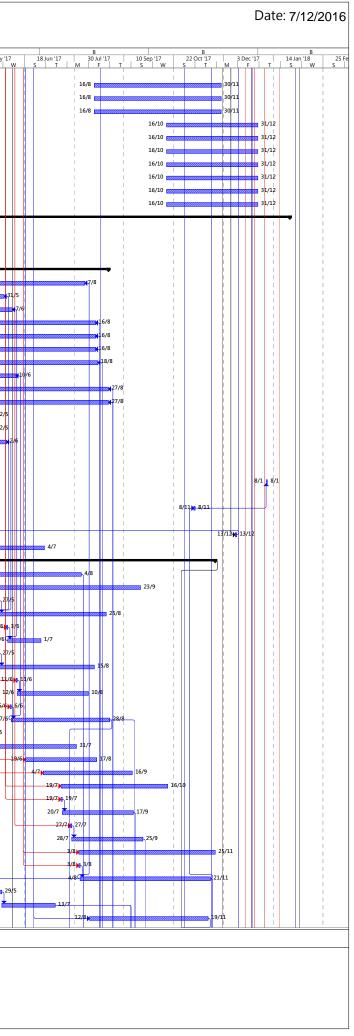
Chinese New Year site close



			Reprovi	sioning of FEHD Sai Yee	Street Enviror	nmental I	Hygiene (Offices-	cum-veh	nicle De	pot at Y	en Ming I	Road (SS	D505)	
D Task Name	Duration	Start	Finish	B	3 Jan '16 13 Mar '16 T M F T	B 24 Apr '16 S W	5 Jun '16	B 17 Jul '16 M F 1	28 Aug '16 T S W	9 Oct '16 S T	R		B 12 Feb '17	26 Mar '17	T
Drawing Submisssion and Approval of ELV (details refer to submission schedule)	49 days	Wed 14/12/16	Tue 31/1/17	T M F T S W S		s w	S T	M F 1	T S W	S T	M F 14/12	T S W	S T	MF	T
3 Broadcast Reception Installation	107 days	Wed 16/8/17	Thu 30/11/17												
Burglar Alarm and Security Installation	107 days	Wed 16/8/17	Thu 30/11/17												
5 Audio Electronic Installation	107 days	Wed 16/8/17	Thu 30/11/17			1				1					÷.
⁶⁶ T&C for CABD System	77 days	Mon 16/10/17	Sun 31/12/17			1	 			1					
77 T&C for CCTV System	77 days	Mon 16/10/17	Sun 31/12/17			1			1	T T					1
¹⁸ T&C for PA System	77 days	Mon 16/10/17	Sun 31/12/17			1				i I					i i
i9 T&C for Watchman Tour System i0 T&C for Smart Card, System	77 days	Mon 16/10/17	Sun 31/12/17												÷.
	77 days	Mon 16/10/17	Sun 31/12/17			1				I I					l.
¹¹ T&C for Induction Loop ¹² T&C for energy management system	77 days 77 days	Mon 16/10/17 Mon 16/10/17	Sun 31/12/17 Sun 31/12/17			1				l I					i.
 Teo to dreg y management system Mechanical Ventilation and Air conditioning installations (see also detail programme for MVAC trade) 	723 days	Fri 5/2/16	Sat 27/1/18						1		<u> </u>				-
Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Fri 10/6/16	Tue 6/12/16			10/	/6 .				6/12				÷.
 ⁵ Equipment & Material Submission and Approval (details refer to submission schedule) 	180 days	Fri 5/2/16	Tue 2/8/16		1	1		2/8							
 ⁶⁶ Major MVAC Material Delivery 	248 days	Fri 23/12/16	Sun 27/8/17			1				I I	 r	F			╺┥┿
7 Cooling Tower	120 days	Mon 10/4/17	Mon 7/8/17		l I				1	1				10/4	
¹⁸ Water Cooled Chiller	160 days	Fri 23/12/16	Wed 31/5/17		l I	1				1	23/12				
9 Water Scrubber	145 days	Sat 14/1/17	Wed 7/6/17						 			14/1			
¹⁰ Heat Pump Unit	145 days	Sat 25/3/17	Wed 16/8/17			1				T. T.			25/3	3	
Heat Transfer Compact Unit	145 days	Sat 25/3/17	Wed 16/8/17		l l					1			25/	3	-
2 Water Calorifier	145 days	Sat 25/3/17	Wed 16/8/17			1	1		1	I I			25/	3	-
3 Water Pump	145 days	Mon 27/3/17	Fri 18/8/17		l I	1				T.			27	/3	
⁴ MCC	135 days	Fri 27/1/17	Sat 10/6/17									27/1			-
¹⁵ Flat Plat type Solar Collector	130 days	Thu 20/4/17	Sun 27/8/17			1				1		I I		20/4	-
6 Flat Plat type Solar Collector	130 days	Thu 20/4/17	Sun 27/8/17			1				1				20/4	
7 Vehicle Exhaust Extraction System	120 days	Mon 23/1/17	Mon 22/5/17			1	1		1	1		23/1			-
⁸ Welding Exhaust System	120 days	Mon 23/1/17	Mon 22/5/17									23/1			
9 Automatic Condenser Tube Cleaning System	105 days	Sat 18/2/17	Fri 2/6/17			1						1	18/2		-
¹⁰ Submission & Approval of AC Layout(Initial) by WSD	22 days	Mon 5/12/16	Tue 27/12/16			1				1	1	27/12			
Submission/Application of form WWO 046(Part I & II) for Cooling Tower Installation	75 days	Tue 27/12/16	Sat 11/3/17			1	1		1	1	27/12		11	/3	1
Submission of form WWO 046(Part IV) for Cooling Tower Installation	1 day	Mon 8/1/18	Mon 8/1/18									L			÷
Submission of CT1B & CT4 to EMSD for Cooling Tower Installation	1 day	Sat 10/12/16	Sat 10/12/16			1			1	l I	10/12 10/1	2		, il l	i
4 Submission of CT2B to EMSD for Cooling Tower Installation	1 day	Wed 8/11/17	Wed 8/11/17			1	I I			l I		13/1	28/2		
 ¹⁵ Submission of VAC Drawing(Initial) to FSD ¹⁶ Final Submission of VAC form 501 for MVAC Installation 	47 days	Fri 13/1/17	Tue 28/2/17			1				1		13/1	20/2		
	1 day	Wed 13/12/17	Wed 13/12/17			1	1		1	1			25/2		1
Conceal Conduit & Builder Work for MVAC G/F to R/F MVAC Installation	130 days	Sat 25/2/17	Tue 4/7/17							1					1
G/F to R/F MVAC Installation G/F MVAC Installation G/F MVAC Installation	203 days	Sun 7/5/17	Sat 25/11/17 Fri 4/8/17			1				l I					7/5
UG/F MVAC Installation	90 days 120 days	Sun 7/5/17 Sat 27/5/17	Sat 23/9/17							1					1
Handover of UG/F Chiller Plant for MVAC Installation	1 day	Sat 27/5/17	Sat 23/9/17 Sat 27/5/17			1				1					1
 2 - UG/F MVAC Installation in Chiller Plant 	90 days	Sun 28/5/17	Fri 25/8/17				1								
 Handover of UG/F AHU Rm for MVAC Installation 	1 day	Sat 3/6/17	Sat 3/6/17												i
4 - UG/F MVAC Installation in AHU Rm	28 days	Sun 4/6/17	Sat 3/0/17			1				1					- li
¹⁵ Handover of UG/F Water Pump Rm. for MVAC Installation	1 day	Sat 27/5/17	Sat 27/5/17			1									
G - UG/F MVAC Installation in Water Pump Rm.	80 days	Sun 28/5/17	Tue 15/8/17		1	1			1	1					1
Handover of UG/F Exhaust Air Fan Rm. for MVAC Installation	1 day	Sun 11/6/17	Sun 11/6/17												_i
 B UG/F MVAC Installation in Exhaust Air Fan Rm. 	60 days	Mon 12/6/17	Thu 10/8/17			1							i I		
¹⁹ Handover of UG/F MCC Rm. for MVAC Installation	1 day	Tue 6/6/17	Tue 6/6/17		l I	1				1			I I		+
 - UG/F MVAC Installation in MCC Rm. 	83 days	Wed 7/6/17	Mon 28/8/17			1				1			I I		
Handover of G/F Vehicle Washing Bay for MVAC Installation	1 day	Wed 17/5/17	Wed 17/5/17			1			1	I.					17
- G/F MVAC Installation in Vehicle Washing Bay	75 days	Thu 18/5/17	Mon 31/7/17			1				1					1
1/F MVAC Installation	60 days	Mon 19/6/17	Thu 17/8/17			1				I I					Ч
4 2/F MVAC Installation	75 days	Tue 4/7/17	Sat 16/9/17			1	 		1	I.					
5 3/F MVAC Installation	90 days	Wed 19/7/17	Mon 16/10/17			1			1	l I					
Handover of 3/F PAU Rm (West Wing) for MVAC Installation	1 day	Wed 19/7/17	Wed 19/7/17									1	1		ļ
- 3/F MVAC Installation in PAU Rm (West Wing)	60 days	Thu 20/7/17	Sun 17/9/17		l l	1				1			i I		
¹⁸ Handover of 3/F PAU Rm (East Wing) for MVAC Installation	1 day	Thu 27/7/17	Thu 27/7/17		l I	1				1			I I		
 - 3/F MVAC Installation in PAU Rm (East Wing) 	60 days	Fri 28/7/17	Mon 25/9/17							1			I I		
0 4/F MVAC Installation	115 days	Thu 3/8/17	Sat 25/11/17			1			1	1					ļ
1 Handover of 4/F Cooling Tower Plant for MVAC Installation	1 day	Thu 3/8/17	Thu 3/8/17		l l								I.		1
- 4/F MVAC Installation in Cooling Tower Plant	110 days	Fri 4/8/17	Tue 21/11/17				 			I.		<u>i I</u>			-
3 Handover of PAU Rm (West Wing) for MVAC Installation	1 day	Mon 29/5/17	Mon 29/5/17			1			1	I I			1		Ì
4 - 4/F MVAC Installation in PAU Rm (West Wing)	45 days	Tue 30/5/17	Thu 13/7/17			1									
5 R/F MVAC Installation	100 days	Sat 12/8/17	Sun 19/11/17	а I I I	1	1	1		1	1	- I - I	1	1	- II	1

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

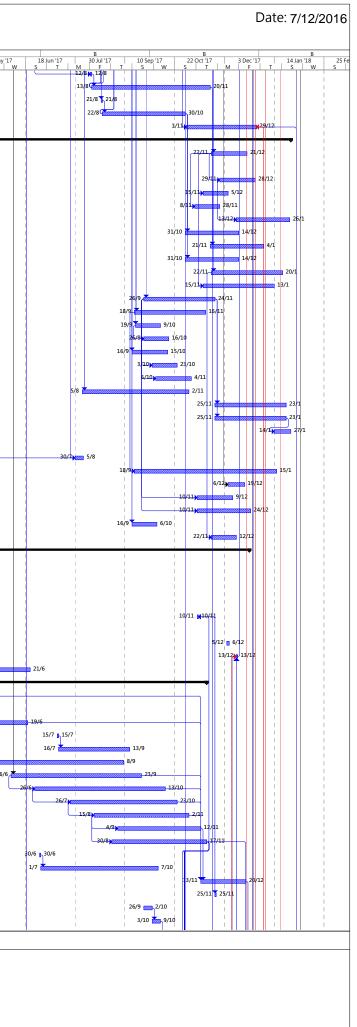
Chinese New Year site close



-1111	a Road and Bridge Corporation			Reprovision	ing of FFF	HD Sai V						e (Rev.07) -cum-vehicle Dep	ot at Yen Ming I	Road (SSI	0505)	
ID T	ask Name	Duration	Start	Finish	B 8 Nov '15 M F T	20 Dec '15	B 31 Jan '16 S T	13 Mar '16	B 24 Apr '16 S W	5 Jun'16	B 17 Jul '16 M F	28 Aug '16 9 Oct '16 T S W S T	20 Nov '16 1 Jan '17 M F T S W	B 12 Feb '17 5 T	26 Mar '17	B 7 May '17
516	Handover of R/F Heat Pump Plant for MVAC Installation	1 day	Sat 12/8/17	Sat 12/8/17	MFT	S W	S T	M F T	S W	S T	M F -	T S W S T	M F T S W	S T	M F T	S
517	- R/F MVAC Installation in Heat Pump Plant	100 days	Sun 13/8/17	Mon 20/11/17							i			i I		
518	Handover of Flat Roof for MVAC Installation	1 day	Mon 21/8/17	Mon 21/8/17			i i				i			i		
519	- R/F MVAC Installation in Flat Roof	70 days	Tue 22/8/17	Mon 30/10/17												
520 521	Testing & Commissioning (MVAC) Testing & Commissioning & Handover(MVAC)	59 days 332 days	Wed 1/11/17 Thu 2/3/17	Fri 29/12/17 Sat 27/1/18												
522	Cooling Tower Function & Full Load Test	30 days	Wed 22/11/17	Thu 21/12/17												
523	Water Cooled Chiller Factory Test	14 days	Sat 1/4/17	Fri 14/4/17										1/	4 14/4	
524	Water Cooled Chiller Function & Full Load Test	30 days	Wed 29/11/17	Thu 28/12/17												
525	Water Pump Performance Test	21 days	Wed 15/11/17	Tue 5/12/17										1		
526	Water Pump Alignment Test	21 days	Wed 8/11/17	Tue 28/11/17												
527	Water Scrubber Performance Test	45 days	Wed 13/12/17	Fri 26/1/18												
528 529	Heat Pump Unit Performance Test	45 days	Tue 31/10/17	Thu 14/12/17 Thu 4/1/18												
530	Heat Transfer Compact Unit Performance Test Solar Hot Water System Performance Test	45 days 45 days	Tue 21/11/17 Tue 31/10/17	Thu 14/12/17										1		
531	Fan Coil Units Function Test	60 days	Wed 22/11/17	Sat 20/1/18												
532	Water Balancing	60 days	Wed 15/11/17	Sat 13/1/18										I I		
533	AHU & PAU Function Test	60 days	Tue 26/9/17	Fri 24/11/17							1		I I I I I I			
534	Ventilating Fans Function Test	60 days	Mon 18/9/17	Thu 16/11/17							1			1		
535	Vehicle Extraction System Function Test	21 days	Tue 19/9/17	Mon 9/10/17						1	1	 		1		
536	Welding Extraction System Function Test	21 days	Tue 26/9/17	Mon 16/10/17			1									
537 538	VRV Unit Function Test Bio-oxygen Generator Function Test	30 days	Sat 16/9/17	Sun 15/10/17 Mon 23/10/17										i I		
539	Ultra Violet Sterilizing Light Function Test	21 days 30 days	Tue 3/10/17 Fri 6/10/17	Sat 4/11/17			1							i i		
540	Ductwork Leakage Test	90 days	Sat 5/8/17	Thu 2/11/17			i i							i		
541	Air Balancing and Flow Measurement	60 days	Sat 25/11/17	Tue 23/1/18												
542	Air Duct Cleaning	60 days	Sat 25/11/17	Tue 23/1/18												
543	IAQ Measurement	14 days	Sun 14/1/18	Sat 27/1/18												
544	Motor Control Cubicles (MCC) Factory Test	7 days	Thu 2/3/17	Wed 8/3/17										2/3 8/3		
545	Motor Control Cubicles (MCC) Site Test	7 days	Sun 30/7/17	Sat 5/8/17												
546 547	CCMS Functional Test	120 days	Mon 18/9/17	Mon 15/1/18										I		
548	VAC Functional Test N.C. Measuring Test	14 days 30 days	Wed 6/12/17 Fri 10/11/17	Tue 19/12/17 Sat 9/12/17								I I		1		
549	Room temperature Measuring Test	45 days	Fri 10/11/17	Sun 24/12/17												
550	Function Test for Condensate Drain Pipe	21 days	Sat 16/9/17	Fri 6/10/17										I I		
551	PCO performanance test	21 days	Wed 22/11/17	Tue 12/12/17						1				I I		
552	Fire services installations (see also detail programme for FS trade)	640 days	Thu 24/3/16	Sat 23/12/17							1			1		
553	Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Tue 17/5/16	Sat 12/11/16					17/5			1	2/11	1		
554	Equipment & Material Submisssion and Approval (details refer to submission schedule)	180 days	Thu 24/3/16	Mon 19/9/16			1 1	24/3			5/8	19/9				
555	Approval of GBP(Initial) by FSD & WSD Submission/Application of form WWO 046(Part I & II) for F.S. Installation	21 days 76 days	Fri 5/8/16 Wed 9/11/16	Thu 25/8/16 Tue 24/1/17			1				3/8	9/11	424/1			
557	Submission of form WWO 046(Part IV) for F.S. Installation	1 day	Fri 10/11/17	Fri 10/11/17			1			1						
558	Submission of Drawing for D.G. Liscence to FSD for Approval	60 days	Mon 17/10/16	Thu 15/12/16			i i					17/10	15/12	i I		
559	Rehearsal of FSD Inspection	2 days	Tue 5/12/17	Wed 6/12/17			i i							1		
560	Final Submission of Form314(Layout) & Form501(FS related) to FSD	1 day	Wed 13/12/17	Wed 13/12/17										i i		
561	Concealed Conduit & Builder Work for FS.	149 days	Tue 24/1/17	Wed 21/6/17									24/1	1		
562	G/F to R/F F.S. Installation - First fixing	212 days	Thu 20/4/17	Fri 17/11/17												-
563 564	Application of Direct Telephone Link Handover of G/F F.S. Transfer Pump Rm. for F.S. Installation	1 day	Tue 2/5/17	Tue 2/5/17										1	2/5 2/5 20/4 20/4	\$
565	F.S. Installation in F.S. Transfer Pump Rm.	1 day 60 days	Thu 20/4/17 Fri 21/4/17	Thu 20/4/17 Mon 19/6/17										1	21/4	
566	Handover of G/F F.S. Control Rm. for F.S. Installation	1 day	Sat 15/7/17	Sat 15/7/17												
567	F.S. control panel Installation in F.S. control Rm.	60 days	Sun 16/7/17	Wed 13/9/17										I I		
568	G/F FS Installation	110 days	Mon 22/5/17	Fri 8/9/17										I I	2	22/5
569	UG/F FS Installation	110 days	Tue 6/6/17	Sat 23/9/17										1		6/6
570	1/F FS Installation	110 days	Mon 26/6/17	Fri 13/10/17								I I				ι
571	2/F FS Installation	90 days	Wed 26/7/17	Mon 23/10/17										I I		
572	3/F FS Installation	80 days	Tue 15/8/17	Thu 2/11/17						1	1			1		
573	4/F FS Installation R/F FS Installation	70 days	Mon 4/9/17 Wed 30/8/17	Sun 12/11/17 Fri 17/11/17						1	1	I I I I		1		
575	K/F FS Installation Handover of SPR. & F.S. Pump Rm. for F.S. Installation	80 days 1 day	Fri 30/6/17	Fri 30/6/17						1	1					
576	F.S. Installation in SPR. & F.S. Pump Rm.	99 days	Sat 1/7/17	Sat 7/10/17							i I			i I		
577	F.S. Final fixing	38 days	Mon 13/11/17	Wed 20/12/17						· 				· 		
578	Water Authority inspections for FS Installation	1 day	Sat 25/11/17	Sat 25/11/17							í.					
					1								i I I			
579	FS inspection for DG Stores (1st)	7 days	Tue 26/9/17	Mon 2/10/17	1		1			i.				i		

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

Chinese New Year site close



China Road and Bridge Corporation			Reprovisi	ioning of FEHD Sai \			ction Pro	-			ot at Yei	n Mina R	load (SS	D505)	
ID Task Name	Duration	Start	Finish	B 20 TE 1 20 Dec 15	B 31 Jan '16 13 Mar '16	B 24 Apr '16 T S W		B 17 Jul '16 M F T	28 Aug '16	9 Oct '16	20 Nov '16	1 Jan '17	B 12 Feb '17	26 Mar '17 M F	B 7 May '17
581 Obtained DG. Licence	7 days	Tue 10/10/17	Mon 16/10/17	T M F T S W	S T M F	T S W	S T	M F T	S W	S T	M F T	S W	S T	M F	7 May '17 T S V
582 Testing & Commissioning (FS)	51 days	Fri 3/11/17	Sat 23/12/17							l l			1	I I	1
583 Hydraulic Test for Pipework	4 days	Fri 3/11/17	Mon 6/11/17			1		1	l I	l I		1	1	1	1
584 G/F & UG/F	4 days	Fri 3/11/17	Mon 6/11/17			i.		1	 	 		 		i i	i.
585 1/F	3 days	Fri 3/11/17	Sun 5/11/17							1		1	1	1	
586 2/F	3 days	Fri 3/11/17	Sun 5/11/17			I I		1	l I	1		l I	l I	I I	I I
587 3/F	3 days	Fri 3/11/17	Sun 5/11/17			1		1	 	l I		1	1	1	
588 4/F	3 days	Fri 3/11/17	Sun 5/11/17			i i		1						i I	i i
589 R/F	3 days	Fri 3/11/17	Sun 5/11/17					1		1		1	1	1	
590 Equipment Performance Test	4 days	Fri 3/11/17	Mon 6/11/17			1				1			1	I.	
591 G/F & UG/F	4 days	Fri 3/11/17	Mon 6/11/17			1		1		l I		1	1	1	
592 1/F	3 days	Fri 3/11/17	Sun 5/11/17			i.		1	 	 		 	1	i i	i.
593 2/F	3 days	Fri 3/11/17	Sun 5/11/17							1		1	1	1	
594 3/F	3 days	Fri 3/11/17	Sun 5/11/17			I I		1	l I	1		1	1	I I	
595 4/F	3 days	Fri 3/11/17	Sun 5/11/17					1		1		1	1		
596 R/F	3 days	Fri 3/11/17	Sun 5/11/17			i i	1		 			 	1	i.	
597 Interfacing test with AC/EE/Lift/Fire Shutter etc.	3 days	Thu 21/12/17	Sat 23/12/17			I.		1	l	l I		1	1	I.	1
598 Mechanical handling and lifting installation	376 days	Wed 31/8/16	Sun 10/9/17			1									
599 Drawing Submisssion and Approval (details refer to submission schedule)	45 days	Wed 31/8/16	Fri 14/10/16			1		31/		14/10		1	1		
600 Equipment & Material Submisssion and Approval (details refer to submission schedule)	60 days	Wed 31/8/16	Sat 29/10/16			i.		31/					1		
601 Gondola system	145 days	Sat 15/4/17	Wed 6/9/17			I.			l				1	*	
602 Cast-in bolt	14 days	Sat 15/4/17	Fri 28/4/17			I I		1	l I	1		1	1	15/4	28/4
603 Guide rail installation	40 days	Sat 29/4/17	Wed 7/6/17					1		1		1	1	29/4 📩	<u></u>
604 Gondola system installation	40 days	Thu 8/6/17	Mon 17/7/17			i i	1	1	 			 	i i	i i	8/6
605 T&C for gondola	7 days	Thu 31/8/17	Wed 6/9/17			I.		1	l	l I	I I		1	I.	
606 Scissor platform	57 days	Sun 16/7/17	Sun 10/9/17			1				1			1	I.	
607 Installation	50 days	Sun 16/7/17	Sun 3/9/17					1				1	1		
608 T&C for scissor platform	7 days	Mon 4/9/17	Sun 10/9/17			Ì		1					1	1	
609 Lift (by Nominated Subcontractor)	585 days	Wed 13/4/16	Sat 18/11/17												
610 Nomination of lift subcontractor	1 day	Wed 13/4/16	Wed 13/4/16		13/4 🗗	13/4			1	1			1		
Drawing Submisssion and Approval (details refer to submission schedule)	46 days	Tue 30/8/16	Fri 14/10/16			1		30/8	1	14/10			1		
612 Manufacturing & Shipment	181 days	Sat 1/10/16	Thu 30/3/17			i.		1	1/10 🚃					30/3	
Equipment & Material Submisssion and Approval (details refer to submission schedule)	60 days	Sun 7/8/16	Wed 5/10/16			I.		7/8		5/10			1	I.	
Handover of lift shafts and machine rooms to NSC (240 days before completion)	0 days	Fri 9/6/17	Fri 9/6/17			1				1			1		
615 Installation, T&C (Details subject to NSC's programme)	149 days	Fri 23/6/17	Sat 18/11/17					1	 	1		1	1		
616 Submission of Form 5	1 day	Fri 25/8/17	Fri 25/8/17			Ì							1	i.	
617 Statutory inspections and obtain lift certificate	31 days	Sun 15/10/17	Tue 14/11/17			1			1	l		1	1	1	
Lift certificate Obtained (L3, Fireman's Lift)	14 days	Sun 15/10/17	Sat 28/10/17			1		1	 	1		1	1	I.	
Lift certificate Obtained (L4, Fireman's Lift) Lift certificate Obtained (L6, Fireman's Lift) Lift certificate Obtained (L6, Fireman's Lift)	14 days	Sun 15/10/17	Sat 28/10/17			1		1	l I	1			1		
Ent of third of Orlanda (ES, Firehard Esty	14 days	Sun 15/10/17	Sat 28/10/17			1				l L		1	1	1	
Lift certificate Obtained (L5, Fireman's Lift) Lift certificate Obtained (L1, L2)	14 days	Sun 15/10/17	Sat 28/10/17							1		1	1	1	
	14 days	Wed 1/11/17	Tue 14/11/17			l I		1	l I	l I	I I	 	1/3		20
623 Beam Plus - FA Submission	90 days	Wed 1/3/17	Mon 29/5/17					1	 	1		1	1/3	1	23/
624 Beam Plus - IEQ 6, 7 and WUP1	7 days	Mon 11/12/17	Sun 17/12/17			1						1	1	1	
625 FSD inspection and Issuance of Certificate (After SCCU Inspection) 626 FSD inspection (1st)	21 days	Wed 27/12/17	Tue 16/1/18					1		l I		1	1	I.	
· ·································	7 days	Wed 27/12/17	Tue 2/1/18							1			1		
	7 days	Wed 3/1/18	Tue 9/1/18					1	1	l I		1	1		
	7 days	Wed 10/1/18	Tue 16/1/18					1	1			1	1	1	
629 Coordination & grant access to EMSD's contractor for installation of equipment	50 days	Fri 8/12/17	Fri 26/1/18												
630 SCCU Pre-inspection	25 days	Thu 7/12/17	Sun 31/12/17			1		l I	l I	I.			1	1	1
631 SCCU Inspection	14 days	Wed 17/1/18	Tue 30/1/18			1		1		I.		1	1		1
G32 General inspection with FEHD/ArchSD/S.O.	28 days	Sat 30/12/17	Fri 26/1/18			i.				i I		1			i.
633 General cleaning	4 days	Wed 31/1/18	Sat 3/2/18			I I		1	l I	I.			I I		I I
Practical completion	0 days	Sat 3/2/18	Sat 3/2/18					1		I.		1	1		1
635 Handover of works	0 days	Sat 3/2/18	Sat 3/2/18									1		1	

Summary

Milestone

Remarks:

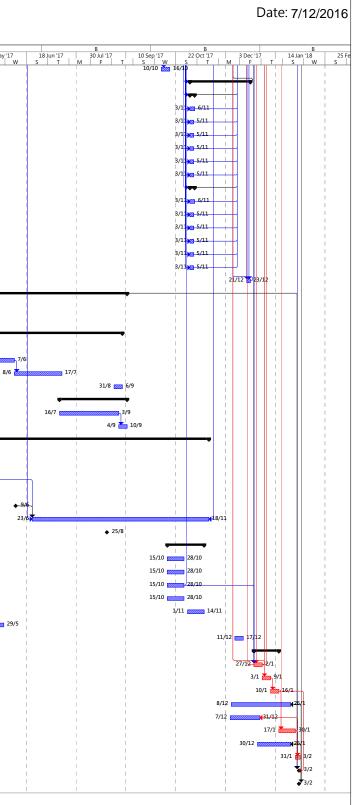
Project: SSD505 - Master Construction Date: Wed 7/12/16 Task

*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

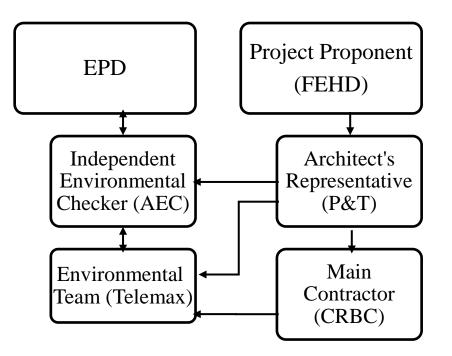
Chinese New Year site close



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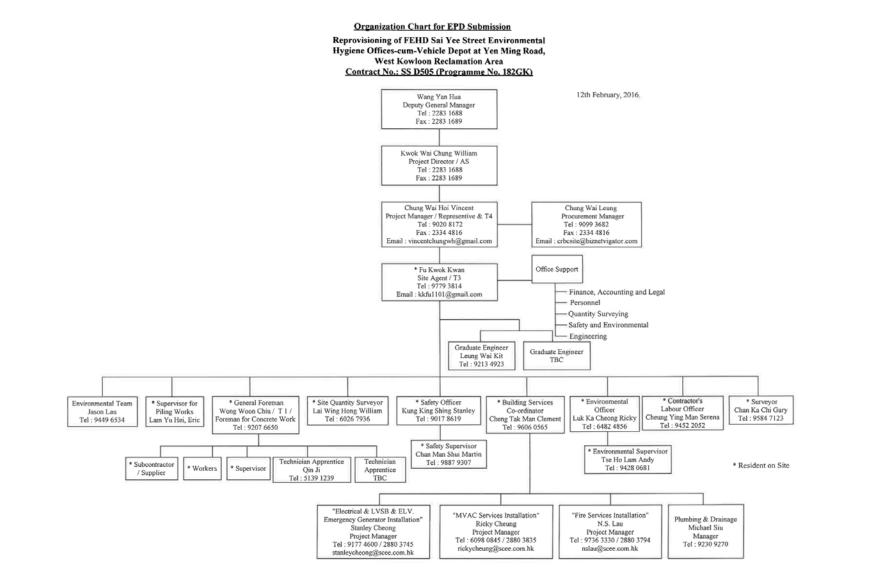
Appendix B Organization Chart





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Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

		.		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				\checkmark
•	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.					\checkmark
•	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.					✓





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Noise – Schedule of Recommended Mitigation Measures

		-		Implementa	tion 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	~			
•	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	1			
•	 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	4			
•	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	1			
•	Mobile plant, if any, should be sited as gar from NSRs as possible;	All areas	✓			
•	Plant known to emit noise strongly in one direction should, wherever possible, be properly oriented so that the noise is directed away from the nearby NSRs;	All areas	~			
•	Use of site hoarding as a noise barrier to screen noise at low level NSRs;	All areas	✓			
•	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum;	All areas	~			
•	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities	All areas	~			
•	The Workshop Vehicle Repair Activities should be carried out under the covered area of the Transport Workshop Section on the G/F as the building of FEHD Depot itself provides screening effect to the NSRs	Transport Workshop Section				✓
•	The workshop vehicle repair activities should not be carried out during night-time period	Transport Workshop Section				\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

		.		Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Water (Quality and Sewerage					
c b to	at the establishment of works site, perimeter cut-off drains to direct offsite water around the Site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels) oth temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided o divert the stormwater to silt removal facilities. The design of the temporary on-site drainage system will be ndertaken by the Contractor prior to the commencement of construction;	All areas	1			
T a e	Dikes or embankments for flood protection should be implemented around the boundaries of earthworks areas. The provided to facilitate the run-off discharge into an appropriate watercourse, through silt / sediment traps. Silt / sediment traps should also be incorporated in the permanent drainage channels to nhance deposition rates;	All areas	*			
1 T w	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN /94, which states that the retention time for silt / sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m^3 rould 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 raps should be undertaken by the Contractor prior to the commencement of construction;	All areas				1
to th a	he construction works should be programmed to minimize surface excavation works during rainy seasons (April o September), as soon as possible after the earthworks have been completed, or alternatively, within 14 days of he cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or t any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other heans;	All areas				✓
fl a ii	he overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water ows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional dvantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of nclement weather and the reduction of surface sheet flows;	All areas	~			
to	Il drainage facilities and erosion and sediment control structures should be regularly inspected and maintained o ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and rits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;	All areas	~			
iı p	Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water umped out from trenches or foundation excavations should be discharged into storm drains via silt removal accilities;	All areas	~			
w c	Il open stockpiles of construction materials (for example, aggregates, sand and fill material should be covered vith tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of onstruction materials, soil, silts or debris into any drainage system;	All areas	~			
to d	Inholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as prevent silt, construction materials or debris being washed into the drainage system and storm run-off being irected into foul sewers;	All areas	4			
iı	recautions to be taken at any time of the year when rainstorms are likely actions to be taken when a rainstorm is nminent or forecasted and during or after rainstorms, are summarized in Appendix A2 of ProPECC PN 1/94. articular attention should be paid to the control of silty surface run-off during storm events;	All areas	4			
• A	Il vehicles and plant should be cleaned before leaving the Site to ensure no earth, mud, debris and the like is	All areas	√			

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	deposited by them on roads.				
•	Oil interceptors should be provided in the drainage system downstream of any oil / fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to percent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;	All areas	✓		
•	Oil interceptors should be provided in the drainage system downstream of any oil / fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to percent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;	All areas	~		
•	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to percent spilled fuel oils from reaching the nearby WSRs.	All areas	✓		
•	Application to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license.	All areas	✓		
•	All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the Technical Memorandum.	All areas	✓		
•	Minimum distance of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes.	All areas	✓		
•	No new effluent discharges in nearby typhoon shelters should be allowed.	All areas	✓		
•	The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., would minimise water consumption and reduce the effluent discharge volume.	All areas	✓		
•	Portable chemical toilets and sewage holding tanks are recommended for the handling of the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	All areas	~		
•	Any maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	All areas	~		
•	All sewage arising from the Project should be collected and diverted to the public sewerage system via proper connections to minimise water quality impact from the operation of the Project and ensure compliance with Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Water under the WPCO.	The Office- cum-Vehicle Depot			4
•	To prevent the potential contaminated wastewater from entering the existing public sewerage systems, run-offs from the covered areas including the vehicle washing bays and vehicle parking space will be properly treated prior to the discharge into the sewerage system. The treated effluent for discharging into the public sewerage system should comply with the effluent standards as stated in the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters under the WPCO.	cum-Vehicle Depot			4
•	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

		-		Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Wa	ste 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		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.		¥			
•	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 waste containers shall be in a secure area on hardstanding.	All areas	✓			
•	Training of site personnel in, site cleanliness, proper waste management and chemical handling procedures.	All areas	✓			
•	Provision of sufficient waste disposal points and regular collection of waste.	All areas	√			
•	Appropriate of sufficient waste disposal points and regular collection of waste by either covering trucks or by	All areas	1			
	transporting wastes in enclosed containers.					
•	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	All areas	✓			
•	Separation of chemical wastes for special handling and appropriate treatment.	All areas	 ✓ 			
•	The site and surroundings shall be kept tidy and litter free.	All areas	✓			

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•	No waste shall be burnt on-site	All areas	\checkmark		
•	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	All areas	√		
•	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas	√		
•	Sorting of demolition debris and excavated materials from demolition works to recover reusable/recyclable	A 11	✓		
	portions (i.e. soil, broken concrete, metal etc.).	All areas	v		
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or	All areas	1		
	recycling of materials and their proper disposal.	All areas	v		
•	Encourage collection of aluminum cans by providing separate labeled buns to enable this waste to be segregated	A 11	1		
	from other general refuse generated by the workforce.	All areas	v		
•	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	All areas	√		
٠	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary	A 11	✓		
	generation of waste.	All areas	v		
•	Waste haulier must hold a valid permit for the collection of waste as stipulated in their permits, Removal of waste	A 11	1		
	should be done in a timely manner.	All areas	v		
•	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	√		
٠	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		1		
	Regulations;	All areas	v		
•	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		1		
	as chemical waste, if necessary);	All areas	v		
•	Incompatible materials are adequately separated.	All areas	√		
•	Adequate numbers of portable toilet should be provide for on-site workers. Portable toilets should be maintained				
	in reasonable states, which will not deter the workers from utilizing them. Night soil should be regularly collected	All areas	✓		
	by licensed collectors.				
	-	The Office-			1
•	The requirements stipulated in the Code of Practice on the Packaging. Labelling and Storage of Chemical Wastes	cum-Vehicle			•
	should be followed in handling of chemical waste as in construction phase.	Depot			
		_			
•	A trip-ticket system should be operated in accordance with the Waste Disposal (Chemical Waste) (General)				✓
	Regulation to monitor all movements of chemical wastes which would be collected by a licensed collector to a				
	licensed facility for final treatment and disposal.	Depot			
•	The recommendations proposed for the mitigation of impacts from chemical waste in construction phase should	The Office-			√
	also be followed.	cum-Vehicle			
		Depot			



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•	Provide recycling bins at designated areas for proper recycling of papers, aluminum cans and plastics bottles	The Office- cum-Vehicle Depot		✓
•	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		✓
•	Storage of Chemicals and Chemical Wastes	The Office- cum-Vehicle Depot		*
•	Emergency Procedures	The Office- cum-Vehicle Depot		*
•	Spillage/leakage of Liquid Chemical/Waste at Storage Area	The Office- cum-Vehicle Depot		*
•	Spillage/Leakage at Repairing and Maintenance Areas	The Office- cum-Vehicle Depot		*
•	Record of Incidents	The Office- cum-Vehicle Depot		*
•	Procedures for Disposal of Wastes	The Office- cum-Vehicle Depot		4



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	Environmental Protection Measures		Implementation St		tion Status	Status	
			Implemented	Partially Implemented	Not Implemented	Not Applicable	
La	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	1				
٠	Provision of green roof of site office	All areas	✓				
•	Erection of fencing around the trees	All areas	✓				
•	Avoidance of placing any construction materials close to the trees	All areas	\checkmark				
•	Apply mulching beyond root collar	All areas	\checkmark				
٠	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				\checkmark	



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Retain Tree Survey





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Appendix D Calibration Certificates



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校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No.	LX1601	8319156		16018319156	
委 托 单 位 Client	上峰检测认证有	限公司			
地 址 Address	香港新界荃湾沙	咀道66A号豪力中	中心19楼1905室		
器 具 名 称 Description	声级计/Sound L	evel Meters			
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/Cal	ibration			
(证书专用章)			批准人 Approved by 审核员 Checked by - 校准员 Calibrated by	郡法沉 刻象光 邵法沉	郡浊沉 刘克先 郡浊沉
委托日期 Received Date 校准日期	2016 年 Year 2016 年	08 月 12 Month 08 月 12	H Day H		
Calibration Date	Year	Month	Day Z	H1603476-001	
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	劲松大厦9A、1B、 hth Road, Chegongs	iao, Futian District, 0755-83890704	, Shenzhen, Guangdon, 邮政编码 (POST a83890591@	NO.): 518040

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



a83890591@126.com 第1页 共5页 Page 1 of 5



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 뿄 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.: LX1600	4264156
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)

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 _{AFmax} -L _A	允许范围 /Conclusion	L _{ASmax} -L _A	允许范围 /Conclusion

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深圳中航技术检测所		证书:	编号/Certific	ate NO. : LX16004264156
500	-0.2	+0.7~-0.9	-4.0	-3.3~-4.9
200	-1.0	-0.2~-1.8	-7.1	-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

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以下空白/End of data

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交准证书

CALIBRATION CERTIFICATE

证书编号 Sf Certificate No.	SD201605833		第 1 页 Page	ī,共 of		
委托方 Client	Apex Testing & Cert: 有限公司	ification	n Ltd 上	峰检	测认证	_
委托方地址 Add. of Client	Room 1905, 19/F Ho Lik Centre, 66A Sha Tsui Road, Tsuen Wan, New Territories, H.K.					_
计量器具名称 Description	Sound Level 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.				_	_	
接收日期 Date of Receipt		2016 年 Y	09 月 M	26	日 D	_
结论 Conclusion	符合JJG 188-2002中1	级技术要求	求			
校准日期 Date of Calibr	ation	2016年 Y	09 月 M	29	日 D	-
批准人 Approved Signatory 核 验 44 44 证书专用章						

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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异竹





	坈 归	
证书编号 SSD201605833 Certificate No.	DIRECTIONS	第2页,共8页 Page of
(卡布克贝尔克氏原收拉林林林在长月大化	赤地区沿方的国家社会社员经会和协	社長橋線江北島員 (園) 法社

ПH

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

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

本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

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

3. 本次校准的技术依据:

Reference documents for the calibration:

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

4. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号 Name of Equipment /Model	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
声校准器 Sound Calibrator /4231	2713562	SSD201603109 /2017-05-24	LS 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:	
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Place and environmental conditions of the calibration: 地点 声学/振动实验室 Acoustics/Vibration Lab. 温度 (23±3) °C 相对湿度 (40~50) % 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。

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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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EEM

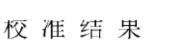
中国认问 国际互供 校准

CALIBRATION

CNAS 1.0730



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



RESULTS OF CALIBRATION

证书编号: SSD201605833 Certification No.	原始记录编号: 220160 Record No.	5833 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
- Annalistation and the sheet sheet		

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





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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,共8页 Page of	
	表2 Table 2			
标称频率(Hz)	实测值C计权(dB)	允许范围(dB)	结论	
Nominal frequency	Measured Value C-weighting	Tolerance	Conclusion	
10	-15.7	.∞ ~ -10.8	合格(Pass)	
20	-6.6	-8.7 ~ -3.7	合格(Pass)	
31.5	-3.2	-5.0 \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 \sim +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 +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	.∞ ~ -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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CNAS 1.0730

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: 2201605	33 第 5 页, 共 8 页
Certification No.	Record No.	Page of

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

	NV VV	表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

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

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



中国认问 国际互识

CNAS 1.0730

校注 CALEBRATION



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

校准结果

RESULTS OF CALIBRATION

证书编号: SSD201605833	原始记录编号: 2201605833	第7页,共8页
Certification No.	Record No.	Page of

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	$\mathbb{L}_{ASmax^{*}} \mathbb{L}_{A}$	允许范围	结论
Last time/ms		Tolerance	Conclusion		Tolerance	Conclusion
500	-0.1	+0.7~-0.9	合格(Pass)	-3.7	-3.3~-4.9	合格(Pass)
200	-1.0	-0.2~-1.8	合格(Pass)	-7.0	-6.6~-8.2	合格(Pass)
50	-5.0	-3.5~-6.1	合格(Pass)	-12.7	-11.8~-14.4	合格(Pass)
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)

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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		
(L _{Cpeak} -L _C) /dB	允差/dB MPE	结论 Conclusion
3.6	$2.1\sim4.9$	合格(Pass)
2.2	$1.0 \sim 3.8$	合格(Pass)
2.2	1.0~3.8	合格(Pass)
	(L _{Cprok} -L _C) /dB 3.6 2.2	(L _{Cpresk} -L _C)/dB (L _{Cpresk} -L _C)/dB 3.6 2.2 1.0~3.8 1.0~3.8

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

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

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

12.5 kHz~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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中航工业 国际	NZHEN METROLOGY & MEASI 国航空工业深圳 ZHEN METROLOGY & MEASUREMENT S 5科技工业第一计量测试研 NZHEN METROLOGY & MEAS	特区计量 TATION OF CHINA A 研究中心深圳 UREMENT STAT	建 河川 试 站 WIATION INDUSTRY It十量检測站 TION OF CIMM
	CALIBRATION		all Harrista and a
证书编号 Certificate No.	LX16004039156		
委 托 单 位 Client	上峰检测认证有限公司	an or 11 - SMP	LX16004039156
地 址 Address	香港新界荃湾沙咀道66A号豪力	中心19楼1905室	and the second s
器 具 名 称 Description	声校准器/Sound Calibrators	and the second	and the second of the second s
器 具 用 途 Usage	VI-MULTING	and the second	n an
规格型号 Model/Type	QC-10	1	an Burness an Bu
制 造 单 位 Manufacturer	QUEST	- All Contraction	and the second sec
器 具 编 号 Serial No.	056-990/QI9010183	and an	
结 论 Conclusion	见校准结果/Calibration		and an and a second sec
	nga salatan namara kasa kasa nga salatan kasa kasa kasa	批准人 Approved by	容子法 沉 」
(证书专用章)		审核员 Checked by	动能花 刻光光
		校 准 员 Calibrated by	路飞洪沉 / · · · · · · · · · · · · · · · · · · ·
委 托 日 期 Received Date	2016 年 03 月 03 Year Month	H Day	a man or B an and a contraction and a
校 准 日 期 Calibration Date	2016 年 03 月 03 Year Moath 13] 考量校 S007号	H Day Z	H1600588-006





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深圳中航技7	下检测所	and the second	征书编号: LX160040391	156
ENDERST-BILL	ALANSE	A MERICAN	说明	NAL OF
			the state of the second s	
			irections	
1SO/IEC 17025	:2005和CNAS相	关要求运行. The la	其管理体系按照JJF 1069-2012法定计量机构考核规范、 boratory is the Service of Legal Metrological management system in accordance with JJF 1069-2012	
	Examination of	of the Service of L	egal Metrological Verification, ISO/IEC 17025:2005	
			可溯源到国家或国际计量基准。	
traceable to t	the national of	or international pr	it under tost. All data issued by the laboratory are imary standards of measurement.	
不确定度小于被	皮测量误差极限	的1/3。	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	
when no uncert	tainty reporte	ed, the test uncert	the expanded uncertainty with a coverage factor k=2, ainty ratio (TUR) is less 1/3.	
			确定度;如需要,由用户考虑。 ncertainty introduced by use and transport of the	
calibrated its			and the second s	
5. 未经本所书面			and the sector and the sector is a sector build	
except in full	Len Hall		out the written approval of the issuing laboratory	
If there is an	ny objection	concerning the meas	日起十五日内向本所提出。 arement, the client should inform the issuing e unit under test return to the client.	
			the measurement):	
JJG 176-2005	《声校准器》]]	G 176-2005 (V.R.o	f Sound Calibrators)	
		environmental con		
地点(Place)		perature)	相对湿度 (Relative Humidity)	
本所/Lab	22.0	TC	60 %	
a 水波潮景乐(即的主题社会	标准要目 (Major et al	ndards 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	
AUD10 CALIBRATOR声 校准器	2292007	2016-11-04	the second se	
MICROHPONE	2172118	2016-11-04	U=0.3dB (k=2)	
卢器				
	683012D122	2016-12-07	MFE:±1dB(20Hz~20kHz) 电平; ±0.2% MFE:±2dB(20kHz~100kHz) 失真; ±1.4%	
声器	683012D122 089867	2016-12-07 2016-12-29	MPE:±2dB(20kHz~100kHz) 失真: ±1.4%	
声器 音频分析仪			MPE:±2dB(20kHz~100kHz) 失真: ±1.4%	
声器 音频分析仪 测量放大器			MPE:±2dB(20kHz~100kHz) 失真: ±1.4%	
声器 音频分析仪 测量放大器			MPE:±2dB(20kHz~100kHz) 失真: ±1.4%	



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Lauri	外观及功能正常性检查:	正常	anne -	1
	Visibility and function ins	pection: Pass.		
2	声压级校准/Sound pressure 1	evel calibration:		
	規定声压級/Provisions of sound pressure level (dB)		声压级差的绝对值/ The absolute value of so pressure level difference(dB)	un
	114	114.00	0.00	
(明白) ¹¹ 3	频率校准/Frequency calibrat	ion		
	规定频率(Hz)	测量频率(Hz)	频率误差(%)	
	assigned frequency	assigned frequency	frequency error	
	1000	1000. 0	10.0	
4 (14)	失真度校准/Distortion calib	ration.		
BIRT	规定频率(Hz)	规定声压级/Provisions of sound pressure level	总失值(%)	
	assigned frequency	(dB)	Distortion	
	1000	114	0. 81	
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 Expression	on of uncertainty in	
	2. 本次测量结果的扩展不确定则	er halfe. Er		
	Expanded uncertainty of the	measurement: U=	0. 4dB (k=2)	
	◇ 建议下次送校日期/Next Ca	libration: 2017-03-02		
	以下空白。	/End of Data		
- Ethny		and the second s		



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Appendix E Impact Monitoring Data of Noise

Noise Monitoring Record Sheet

Contract No: SS D505

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

Da	ta of Monitoring												4/1/2	017											
Mo	nitoring Location		NSR1 (EP) Sir Filis Kadonen Sec School																						
Descrip	ption of the Location		Sir Ellis Kadoone Sec School																						
Sou	nd Level Method		Sound level meter : AWA5661 S/N304042																						
(Mod	lel and Serial No.)		Calibrator: QC-10 SN056-990																						
Weather	Status		Sunty																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<(E)	<5(E)	<(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)						
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	66.1																							
	L90 dB(A)	56.2	55.7	57.4	57.9	56.5	57.3	57.8	56.7	56.4	57.2	57.3	56.1	56.8	57.0	58.3	57.7	58.6	56.3	58.8	58.1	57.3	57.4	58.2	58.7
Measured Noise	Leg dB(A)	64.0	63.4	65.2	65.8	64.5	64.9	65.1	64.8	65.4	65.7	65.0	64.2	64.9	65.3	65.9	64.4	65.2	64.8	65.6	65.1	64.5	63.7	64.8	64.2
Level (dB(A))	L10 (Average)												67	2									•		
	L90 (Average)												57	4											
	Leg (30 min)		64.9																						
Noise Lin	nit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	instruction Activities		Piling Works																						
Other Noise So	ources During Measurement		Human Activities and Vehicle																						

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	altri	31/1/2017

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	ta of Monitoring												4/1/2	017											
Mo	nitoring Location												NSR7	(EP)											
Descrip	ption of the Location		Fu Yun House																						
Sound Level M	ethod (Model and Serial No.)		Sound level meter : AWA5661 S/N304716 Calibrator: QC-10 S/N056-990																						
Weather	Status		Construct, Constructions																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<\$€)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	72.6	71.7	72.3	73.8	72.9	73.6	74.7	75.6	74.2	75.4	75.3	74.8	74.9	73.7	74.5	74.3	75.4	75.8	74.7	75.1	74.3	74.0	75.6	74.8
	L90 dB(A)	65.4	65.0	65.6	67.1	66.3	67.8	67.9	68.2	67.5	66.2	65.7	65.3	64.9	64.3	65.6	66.7	67.5	67.2	66.1	66.7	65.8	66.9	67.4	66.2
Measured Noise	Leq dB(A)	70.2	69.4	69.9	71.3	70.5	71.8	72.3	73.0	72.4	73.5	73.1	72.7	72.3	71.7	72.3	71.9	73.6	73.0	72.5	73.4	72.0	71.9	73.0	72.3
Level (dB(A))	L10 (Average)				•								74	5											
	L90 (Average)		66.5																						
	Leg (30 min)		72.2																						
Noise Lir	nit Level, Leq, (dB(A))		75dB(A)																						
Site Co	onstruction Activities		Piling Works																						
Other Noise S	ources During Measurement											Hun	nan Activiti	es and Veh	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	Cotton	31/1/2017





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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

														0017											
	ta of Monitoring												10/1/												
Mo	nitoring Location		NSR1 (EP)																						
Descrip	ption of the Location		Sir Ellis Kadoone Sec School																						
Sou	nd Level Method											Sound lew	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Cali	brator: QC-	10 S/N056	-990										
Weather	Status																								
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$€)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	65.7	66.2	66.5	66.9	65.7	66.8	66.4	66.9	65.6	66.3	67.8	66.7	66.9	66.1	65.5	65.9	66.2	66.3	66.6	66.3	65.5	66.2	67.1	65.7
	L90 dB(A)	56.6	56.9	57.2	57.6	56.4	56.9	56.3	55.0	57.3	57.6	58.2	57.1	56.2	57.5	55.8	55.2	55.7	56.0	56.7	55.4	56.3	57.0	57.9	56.1
Measured Noise	Leq dB(A)	63.6	63.9	64.1	64.7	63.5	64.6	64.0	64.7	63.8	64.2	65.0	64.3	64.7	64.5	63.7	63.1	63.9	64.4	64.1	64.6	63.7	64.2	64.7	63.4
Level (dB(A))	L10 (Average)												66	.4											
	L90 (Average)												56	.7											
	Leg (30 min)		64.2																						
Noise Lir	nit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	onstruction Activities		Piling Works																						
Other Noise S	ources During Measurement		Human Activities and Vehicle																						

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	atri	31/1/2017

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	ta of Monitoring												10/1	2017											
Mo	nitoring Location												NSR'	7 (EP)											
Descrip	ption of the Location		Fu Yun House																						
Sound Level M	ethod (Model and Serial No.)		Sound level meter : AWA5661 S/N304716 Calibrator: QC-10 S/N056-990																						
Weather	Status																								
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 14:00 14:30 15:00 15:30 16:00 16:30 17:00 17:30 18:00 18:30 19:00																						
	L10 dB(A)	70.6	71.8	72.2	72.5	73.2	73.8	74.0	74.2	73.9	74.8	74.5	75.3	74.7	75.6	74.9	73.6	74.2	72.8	73.7	74.6	75.5	74.3	73.9	74.1
	L90 dB(A)	63.3	64.0	64.5	65.3	65.7	66.2	66.6	67.4	66.1	68.3	67.8	66.5	66.9	67.5	65.3	67.0	66.2	65.8	65.4	65.9	64.3	67.2	65.0	65.8
Measured Noise	Leq dB(A)	68.8	69.3	69.7	70.2	70.9	71.3	71.8	72.1	71.8	72.7	72.6	73,4	72.5	73.4	72.8	71.3	71.9	70.5	71.4	72.1	73.0	72.4	71.6	71.9
Level (dB(A))	L10 (Average)												74	.0											
	L90 (Average)												66												
	Leg (30 min)		71.8																						
Noise Lin	nit Level, Leq, (dB(A))		75dB(A)																						
Site Co	instruction Activities		Piling Works																						
Other Noise S	ources During Measurement											Hun	nan Activit	ies and Veb	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	Costri	31/1/2017



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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												16/1/	2017											
	nitoring Location												NSRI												
	ption of the Location											Sir		me Sec Sch	lool									-	
	and Level Method											Sound leve													
	del and Serial No.)													10 S/N056											
Weather	Status												Sur	my											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)						
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	64.7	65.6	65.4	66.6	67.2	67.9	66.3	65.7	66.9	66.5	67.3	67.4	66.8	65.5	67.7	66.5	66.7	66.2	65.8	66.3	65.4	66.7	66.1	65.5
	L90 dB(A)	55.6	56.9	55.4	57.7	58.6	56.4	58.7	56.3	55.3	55.1	55.8	57.6	58.1	58.5	58.9	55.5	56.3	54.7	55.9	57.5	57.7	58.6	56.2	57.2
Measured Noise	Leq dB(A)	62.8	63.7	63.0	64.1	64.8	65.0	64.5	63.9	64.4	64.0	64.7	65.0	64.2	63.1	64.9	64.2	64.0	63.3	63.7	64.2	63.6	64.5	64.2	63.4
Level (dB(A))	L10 (Average)												66	.4											
	L90 (Average)												57	.0											
	Leg (30 min)												64	.1											
Noise Lin	nit Level, Leq, (dB(A))										700	B(A) for s	:hool / 65 d	(B(A) durin	g examinal	ion									
Site C	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hun	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	Cotto	31/1/2017

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												16/1/	2017											
Mo	onitoring Location												NSR7	(EP)											
Descrip	ption of the Location												Fu Yur	House											
Sound Level M	fethod (Model and Serial No.)												el meter : A brator: QC-												
Weather	Status												Su												
Condition	Wind Strength (m/s)	<5(E)	<(E)	<(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(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	Monitoring Finish 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:30 11:30 12:00 12:30 13:30 14:00 14:30 15:30 15:30 16:00 16:30 16:00 16:30 17:30 18:00 18:30 18:00 18:30 19:00																								
	L10 dB(A)	72.7	72.1	74.3	74.9	75.5	73.7	74.5	74.9	76.1	74.7	75.6	75.8	75.4	74.7	74.2	75.5	76.2	75.4	74.7	74.6	75.3	75.9	73.1	74.5
	L90 dB(A)	65.5	65.0	66.4	66.9	67.7	67.3	66.7	67.2	65.4	66.1	67.5	67.9	66.2	64.7	65.1	64.2	64.8	64.0	65.8	65.3	65.7	66.3	65.1	65.4
Measured Noise	Leq dB(A)	70.5	69.7	72.0	72.5	73.1	72.4	72.0	72.8	73.3	72.8	73.6	73.7	73.1	72.7	72.4	73.5	73.8	73.0	72.5	72.7	73.4	73.7	73.2	72.5
Level (dB(A))	L10 (Average)												74	.9											
	L90 (Average)												66	1											
	Leq (30 min)												72	.8											
Noise Lin	mit Level, Leq, (dB(A))												75d	3(A)											
Site Co	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Vet	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	after	31/1/2017







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

D	the state of the s												01.01	0017											
	ata of Monitoring												21/1/												
Mo	onitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	me Sec Sch	lool										
Sou	and Level Method											Sound lew	el meter : A	WA5661 8	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)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$€)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)						
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	64.5	64.3	65.8	66.1	66.5	67.4	67.3	66.8	65.7	66.9	67.4	66.3	66.2	66.0	66.4	66.6	67.3	67.2	66.3	65.5	65.1	66.7	66.9	65.4
1	L90 dB(A)	55.3	55.7	56.2	56.0	57.A	57.3	58.1	57.2	56.8	55.3	56.1	57.4	56.2	54.7	55.5	55.8	56.1	55.7	54.3	55.9	56.1	56.3	55.4	54.8
Measured Noise	Leq dB(A)	62.7	62.5	63.8	63.6	64.5	64.9	65.0	64.3	63.8	64.4	65.0	64.7	64.1	63.9	64.6	64.2	64.9	65.0	64.1	63.7	63.2	64.3	64.8	63.5
Level (dB(A))	L10 (Average)												66	.4											
1	L90 (Average)												56	.2											
	Leg (30 min)												64	.2											
Noise Lin	mit Level, Leq, (dB(A))										700	B(A) for s	chool / 65 d	IB(A) durin	ng examinat	tion									
Site C	onstruction Activities												Piling	Works											
Other Noise S	Sources During Measurement											Hur	nan Activiti	ies and Veb	nicle										

FFM

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	atta	31/1/2017

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	ta of Monitoring												21/1/	2017											
Mo	nitoring Location												NSR7	(EP)											
Descrip	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)												el meter : A brator: QC-												
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)						
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	71.6	72.3	72.8	73.4	71.7	72.6	72.5	73.1	73.9	74.3	75.1	73.5	73.4	74.6	73.8	74.1	73.2	72.4	73.3	74.5	75.1	76.0	74.7	73.6
	L90 dB(A)	63.7	64.1	64.9	64.2	65.7	64.6	64.3	64.7	65.8	65.3	66.4	65.2	64.6	64.0	65.1	65.8	64.9	64.2	65.3	65.7	64.5	65.2	65.4	64.3
Measured Noise	Leg dB(A)	69.2	69.7	70.1	70.8	69.3	69.8	70.4	70.9	71.5	72.3	72.8	71.7	71.0	72.1	71.6	72.3	71.4	70.6	71.3	72.4	72.9	73.2	72.1	71.2
Level (dB(A))	L10 (Average)												73	7						•		•			
	L90 (Average)												65	0											
	Leg (30 min)												71	4											
Noise Lin	nit Level, Leq, (dB(A))												75d1	3(A)											
Site Co	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	Costri	31/1/2017



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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												27/1/	2017											
Mo	nitoring Location												NSR1	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	me Sec Sch	lool										
Sou	ind Level Method											Sound lew	el meter : A	WA5661 S	N304042										-
(Mo	del and Serial No.)											Cali	brator: QC-	10 S/N056	-990										
Weather	Status												Sur	my											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	< (E)	<5(E)	<(E)	<\$(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$€)	<(E)	<5(E)	<(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)	64.6	65.3	65.1	65.8	66.7	66.1	66.3	66.9	67.A	66.5	66.8	66.9	67.7	68.1	66.3	67.8	67.3	66.0	65.4	67.3	66.9	65.7	65.6	65.3
	L90 dB(A)	54.6	55.1	55.9	56.1	56.8	55.2	54.5	55.7	56.3	55.9	56.3	56.1	57.2	56.4	55.8	55.5	56.6	56.2	57.1	56.4	56.9	55.8	55.4	55.1
Measured Noise	Leg dB(A)	62.1	63.4	62.8	63.7	64.1	63.9	64.0	64.7	65.0	64.3	64.1	64.5	65.2	65.7	64.6	64.9	65.1	64.3	63.8	64.9	64.2	63.8	63.0	63.5
Level (dB(A))	L10 (Average)												66	5											
	L90 (Average)												56	0											
	Leg (30 min)												64	2											
Noise Lir	nit Level, Leq, (dB(A))										700	B(A) for s	:hool / 65 d	B(A) durin	ig examina	tion									
Site Co	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activiti	es and Veh	iicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	atta	31/1/2017

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

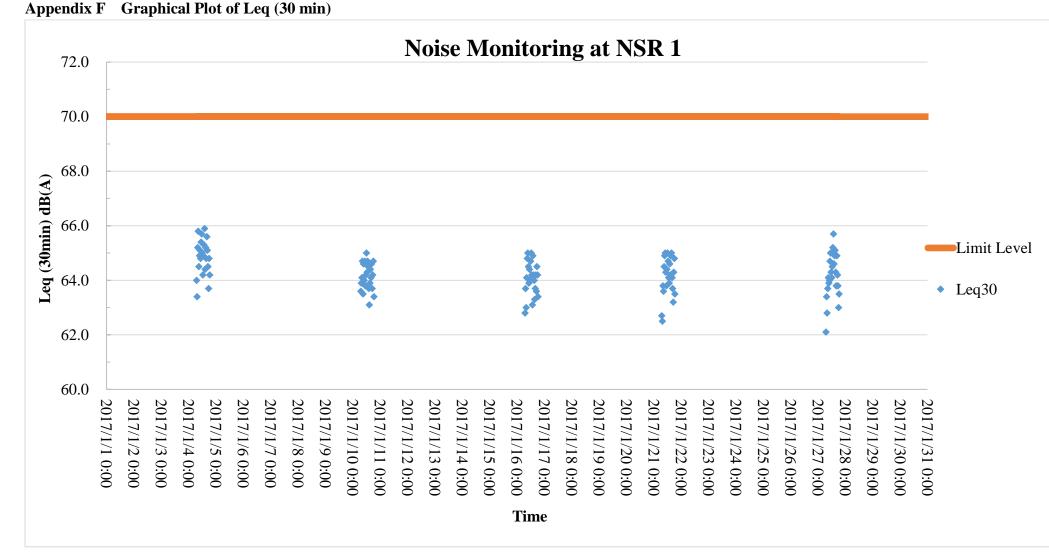
Da	ata of Monitoring												27/1	/2017										-	
Mo	mitoring Location												NSR'	7 (EP)											
Descrip	ption of the Location												Fu Yur	1 House											
Sound Level M	lethod (Model and Serial No.)													WA5661 S											
Weather	Status												Su	nny											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<\$(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30 13:00 14:30 15:30 15:30 16:00 16:30 17:00 17:30 18:00 18:30 19:00																					
	L10 dB(A)	72.3	71.6	71.7	72.5	73.2	73.4	73.6	72.4	73.7	74.6	74.2	75.1	75.5	74.7	75.3	75.7	74.3	73.5	74.1	73.3	73.4	72.0	71.3	71.8
	L90 dB(A)	64.2	63.9	64.7	64.9	65.2	65.6	64.7	65.3	66.1	66.7	65.8	65.1	66.2	65.7	65.8	65.0	64.7	65.2	66.6	64.1	64.9	65.3	65.7	65.0
Measured Noise	Leq dB(A)	70.1	69.4	69.3	70.3	70.9	71.4	71.0	70.8	71.6	72.1	72.5	72.9	73.1	72.4	73.5	73.0	72.6	71.8	72.5	71.4	71.0	70.5	69.6	69.1
Level (dB(A))	L10 (Average)												73	.7											
	L90 (Average)												65												
	Leg (30 min)												71	.6											
Noise Lir	mit Level, Leq, (dB(A))												75d	B(A)											
Site Co	onstruction Activities												Piling	Works											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	nicle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	31/1/2017
Checked by	Calvin Lui	Cotton	31/1/2017



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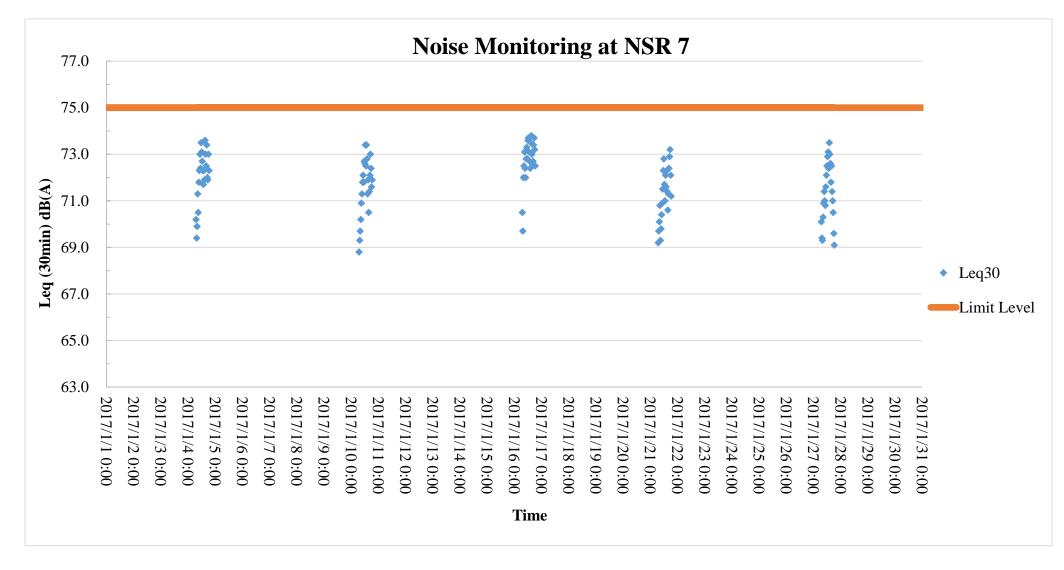




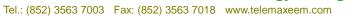




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Appendix G Monitoring Schedule

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

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

Remarks: IN – Impact Noise Monitoring

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





Impact Monitoring Schedule (February 2017)

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

Remarks: IN – Impact Noise Monitoring

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





Impact Monitoring Schedule (March 2017)

						March 2017
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	1		3 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	4
5	6	7	8	9 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	10	11
12	13	14	15 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	16	17	18
19	20	21 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	22	23	24	25
26	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)





Impact Monitoring Schedule (April 2017)

					1	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

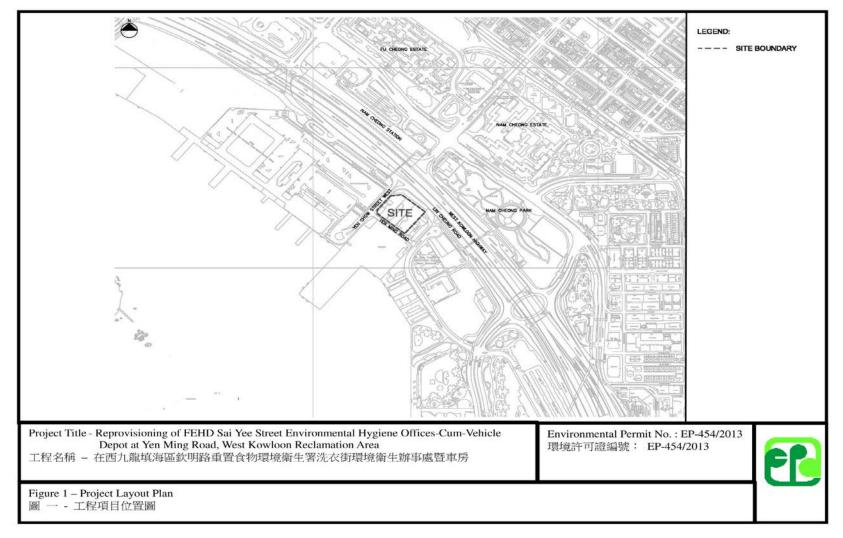
NSR 1 -Sir Ellis Kadoorie Secondary School (West Kowloon)





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Appendix H Project Layout

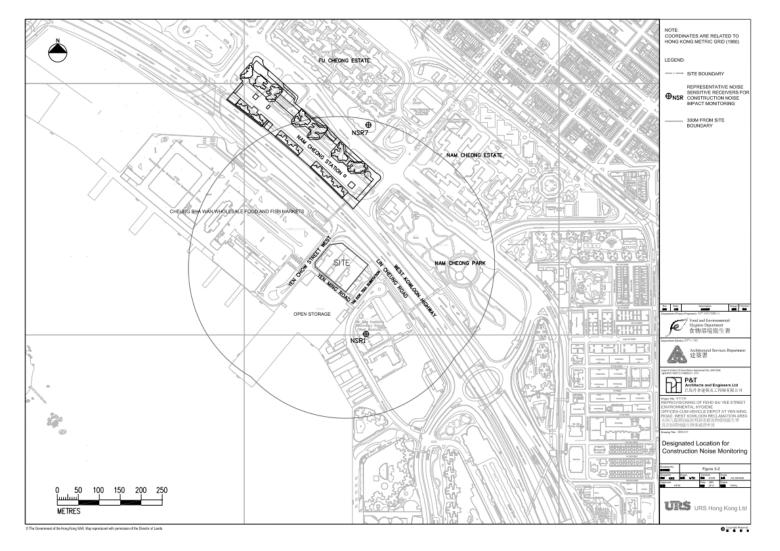






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Appendix I Location of the Impact Monitoring Locations





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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		Cumulative 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

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

Record by: China Road and Bridge Corporation 2017

Year of Record:

Monthly Waste Flow Table

DD.MM.YY	Total	Total		Act	ual Quanti	ties of Inert C	&D Mate	rials Gene	rated Mor	nthly		Actua	Quantities	of C&D M	aterials G	enerated N	Ionthly
	Quantity	Quantity	Exca	vated Mate	rials		No	n-excavat	ed Materia	als		Metals	Metals	Paper /	Plastics	Chemical	Other,
	Generated	Generated (Excluded	Disposed in	Disposed in	Others	Broken	Reused in	Reused in	Disposed	Disposed in	Disposed in	(steel bar	(aluminum	cardboard	(1) & (4)	waste	e.g.
		Excavated	Public Fill	Sorting	(e.g	Concrete or	the	other	in Public	Landfill	Sorting	/ metal	can) (1)	packaging (1)		(wasted lubricant	general refuse
		Material)		Facilities	Reused in	Construction	Contract	Projects	Fill		Facilities	strip) ⁽¹⁾				oil/oil	reiuse
					the Contract /	Waste Collected by										container)	
					Other	Recycled by										-	
					Projects)	Company											
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)				
	a1	a2	b	b	b	с	d	e	f	g	h	i	j	k	1	m	n
3-Jan-17	171.20	0.00	171.20	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-Jan-17	167.90	0.00	167.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Jan-17	92.30	0.00	92.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-Jan-17	96.40	4.60	91.80	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	4.60
9-Jan-17	30.40	0.00	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Jan-17	60.80	0.00	60.80	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
11-Jan-17	120.40	0.00	120.40	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
12-Jan-17	8.80	2.50	6.30	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	2.50
18-Jan-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
19-Jan-17	4.00	4.00	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	4.00
23-Jan-17	6.30	0.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27-Jan-17	4.40	4.40	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	4.40
Total	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

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

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

17.90 tonne a2=c+d+e+f+g+h+i+j+k+l+m+n

- 0.00 tonne a3=c+d+e+i+j+k+l
- 0.00 % a4=a3/a2 x 100%

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

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

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MA P3 ConstructionWaste Management Plan

MA 11 Construciton Waste Reduction

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

Record by: China Road and Bridge Corporation

Year of Record: 2017

Overall Summary Waste Flow Table

DD.MM.YY	Total	Total	Actual Quantities of Inert C&D Materials Generated Monthly								Actua	Quantities	of C&D Ma	aterials G	enerated M	onthly	
	Quantity Generated	Quantity Generated	Exca	vated Mate	rials		No	n-excavat	ed Materia	als		Metals	Metals	Paper / cardboard	Plastics	Chemical	Other,
	Contractor	(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⁾	packaging (1)		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	e	f	g	h	i	j	k		m	n
Mar-16	36.48	4.58	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	2.00
Apr-16	9.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.20
May-16	4.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
Jun-16	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20
Jul-16	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80
Aug-16	109.80	0.50	109.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Sep-16	659.70	8.10	651.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
Oct-16	1280.90	1.50	1279.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
Nov-16	1463.50	4.30	1459.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30
Dec-16	2590.32	5.22	2585.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	3.50
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
Total	6927.80	63.90	6863.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	59.60

Total C&D waste generated	6927.80 tonnes	a1=b+c+d+e+f+g+h+i+j+k+l+m+n
Total C&D waste generated (excluded excavated materials)	63.90 tonne	a2=c+d+e+f+g+h+i+j+k+l+m+n
Total recycled C&D waste	4.30 tonne	a3=c+d+e+i+j+k+l
% of recycled C&D waste for BEAM Plus MA11	6.73% %	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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	編號: AEP-454/2013)
-	
-	
- 12 November 2013	
2013年11月12日	
Date 日期	 (Ken Y.K. Wong) Principal Environmental Protection Officer for Director of Environmental Protection 環境保護署署長 (首席環境保護主任 黃羅光代行)

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)





<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*

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

Tree Species suitable for Ground Floor Planting	ng					
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*

Τ	Tree/Large Shrub Species suitable for Green Roof Planting		
C	Cassia surattensis (Sunshine Tree)	Osmanthus fragrans (Sweet Osmanthus)	
L	agerstroemia 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

- (v) 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]

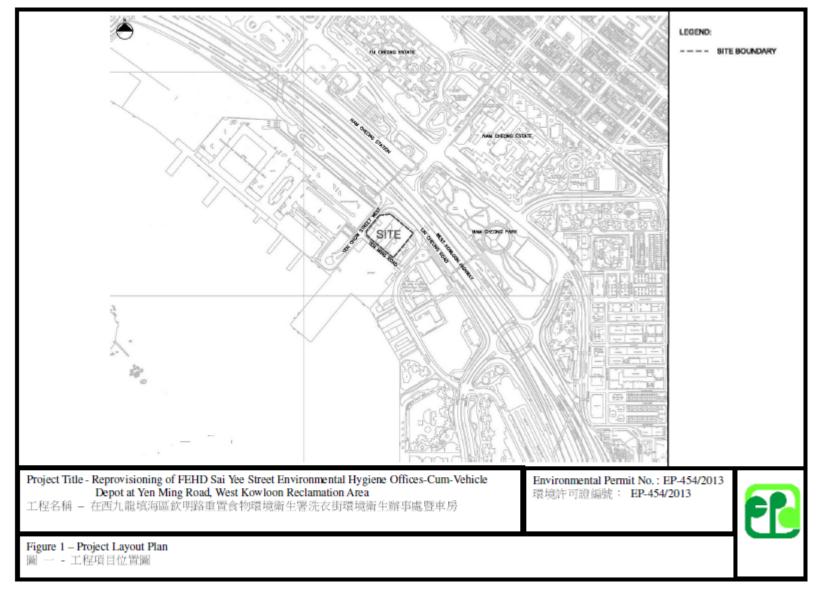
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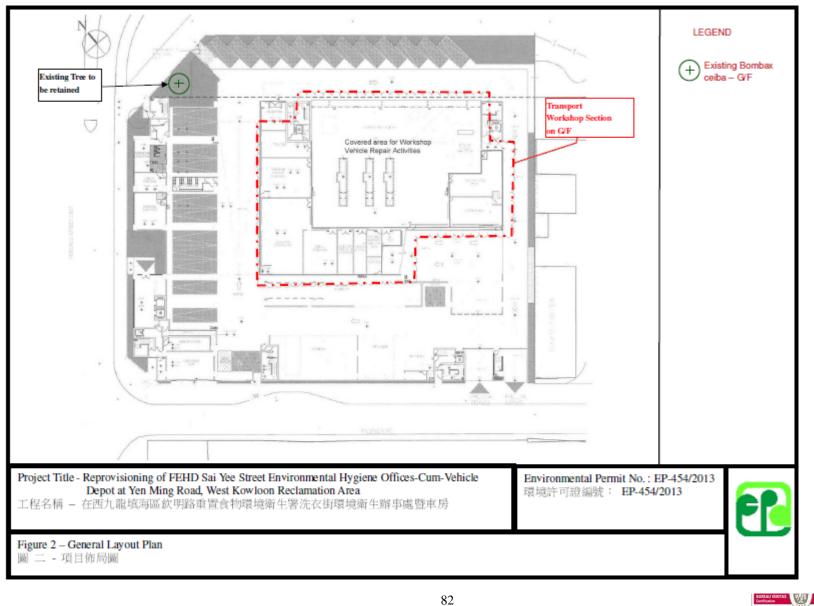
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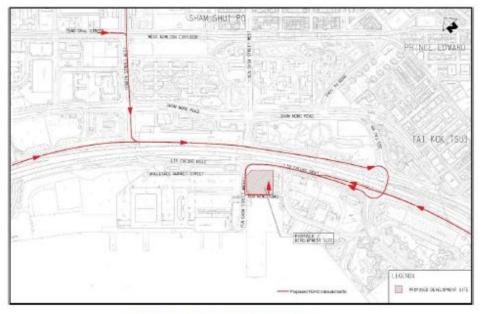


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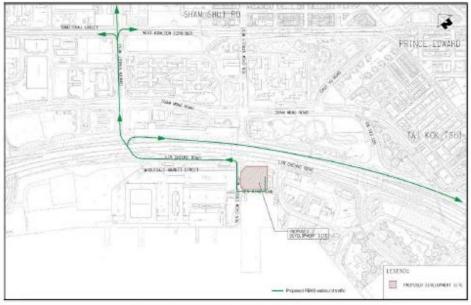


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IN-BOUND TRAFFIC ROUTING



OUT-BOUND TRAFFIC ROUTING



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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.

Yours faithfully,

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

The Original WPCO Licence

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

SO See SI NEAT VERTIAS Electrolication Certification



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

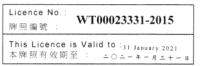


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ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

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 將不適用者謝去			

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

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EPD156





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。

所有半位的人名达尔	
Determinand 測量物	Limit 限度
Flow Rate (m ³ /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)	0-9-

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、穀蟲劑或毒劑、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 dy). 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. 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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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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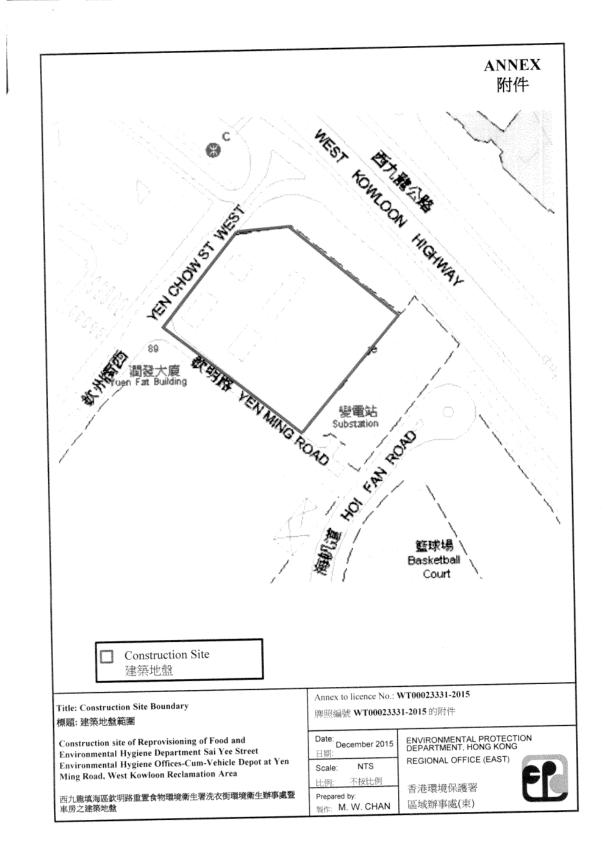
Notes 附註				
(a)	For the purposes of determining compliance with the limits stated in Specific Condition B1, samples shall be taken by the duly authorized officer(s) of the Authority at the Sampling Point(s) or any other points from which the samples so taken are regarded by the Authority as being representative 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. Specific B1. 为確定排放是否符合特別條件第 B1 項內所列的限度,獲監督授權的人員須在取樣點或在監督認為可以抽取到具代表性			
	的樣本的任何其他位置抽取樣本。只要在任何一個經分析的樣本中,證實任何一個測量物不有古來中的5%的是的是不及。 排放即被視為不符合特別條件第 BI項。			
(b)	An example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal. 妥善棄置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。			
(c)	Proper disposal of grease trap waste includes but is not limited to employing any reputable firm or collector who will use the right equipment and dispose of the collected grease trap waste at West Kowloon Transfer Station. The updated list of grease trap waste collectors who are using the disposal service at West Kowloon Transfer Station is maintained in the EPD website and Green Restaurant website.			
	妥善的隔油池廢物棄置方法包括卻不限於聘用任何信譽良好的公司/收集商使用適當的設備在四九龍廢初轉運站集員內 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. 持牌人獨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 條所批給脾照的人士,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 neerce 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 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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Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com (c) Chemical Waste Producer Registeration

本著指統 Our Ref: 来函格號 396912 Your Ref: 電 話 Tel. No.: 2117 7539 圖文傳真 Fax No.: 2756 8588 電子郵件 E-Mail: 纲 近 Homepage: http://www.epd.gov.h <u>By Registered Po</u>	DI	CC. W	環境保護署 環保法規管理科 區域辦事處(東) 香港九龍九龍海臨筆街 十九號南聖商業中心五樓 ノの(EPD 10 JAN 2016 CC KFFu/ Tele www.
Dear 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	Chemical Waste Producer	Full Name (English) 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						
		(CHAN Kin Ki)						
		tor Director of Environmental Protection 環境保護署署長(陳健基 代行)						
		Date 15 1 2016 日期						
WAI	RNING : A	ny 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						
		±幣10,000元。						

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 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

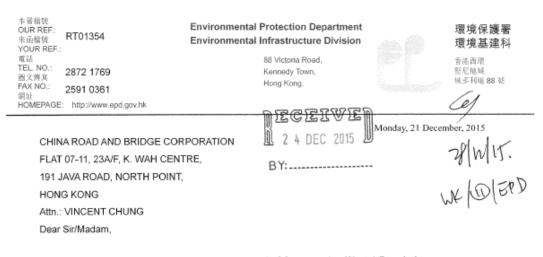


(Nov 2012)



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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

14



AU 2: 14 RECYCLED TATEF

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Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com (e) Construction Noise Permit

> 本等報案 OUR REF: (4) in EP632/K03/RE408075-16 %除稿案 YOUR REF: 電 話 TEL NO: 2150 8017 開文符算 FAX NO: 2402 8275 編 址 HOMEPMCE: http://www.epd.gov.hk

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



Registered Post

07 October 2016

Tysan Foundation Limited 20/F., One Island South, 2 Heung Yip Road, Wong Chuk Hang, Hong Kong

Dear Sirs,

To:

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

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

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

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

Yours faithfully,

(WONG Chun Yin Johnny) for Authority

c.c. E(RW)52





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

CONSTRUCTION NOISE PERMIT FOR THE CARRYING OUT OF PERCUSSIVE PILING

CONSTRUCTION NOISE PERMIT NO. PP-RE0028-16

To: TYSAN FOUNDATION LIMITED

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the carrying out of percussive piling, subject to the conditions set out below. The carrying out of percussive piling 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 percussive piling may be carried out;

Full street address: Construction site at the junction of Yen Chow Street West and Yen Ming Read, West Kowloon Reclamation Area, Tai Kok Tsui, Kowloon. Lot No.:

The piling zone, that is, the area within which percussive piling may take place is delineated on the attached plan which forms part of this construction noise permit.

2. Porcussive piling method and pile type which may be used in the piling zone:

Piling method and pile type	No: of units
Hydraulic hammer (single acting) driving steel pile	One

3. Validity of the construction noise permit:

Date of commencement: 11 October 2016

Days and hours: 0700-1900 hours on all days except general holidays (including Sundays) [but note "Other Conditions" below for the operating hours within which the carrying out of the above listed percussive piling is allowed].

This pennit expires on: 31 March 2017

 This construction noise permit or a copy thereof must be displayed on the construction site at all vehicular site entrances/exits for public information.

Other Conditions

5. The above listed percussive piling method and pile type shall only be used during the hours shown below:

	0730 hours to 0815 hours AND
Any day not being a general holiday	1225 hours to 1340 hours AND
	1530 hours to 1830 hours

Dated this 07th day of October 2016

Signa

(WONG Chun Yin Johnny) for Authority

EPD 7769





(4) in EP632/K03/RE408075-16

2150 8017 2402 8275

抽號函件

致: 香葉道2號 One Island South 20樓 泰昇地基工程有限公司

執事先生:

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

本監督在二零一六年九月二十七日接獲你擬於<u>九龍大角咀西九鏞填海區欽州街西</u> <u>及欽明路交界的建築地盤</u>,進行撞擊式打樁工程而提出的「建築噪音許可證」申請,現根 諱《嗓音管制條例》第 8(6)條的規定通知你,上述的申請已被批准。

随函附上「第 PP-RE0028-16 號建築嗓音許可證」。

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

Min.	Sec.
80	- 162
TTTT	- 144

(黃鎮賢

代行)

副本送: E(RW)52

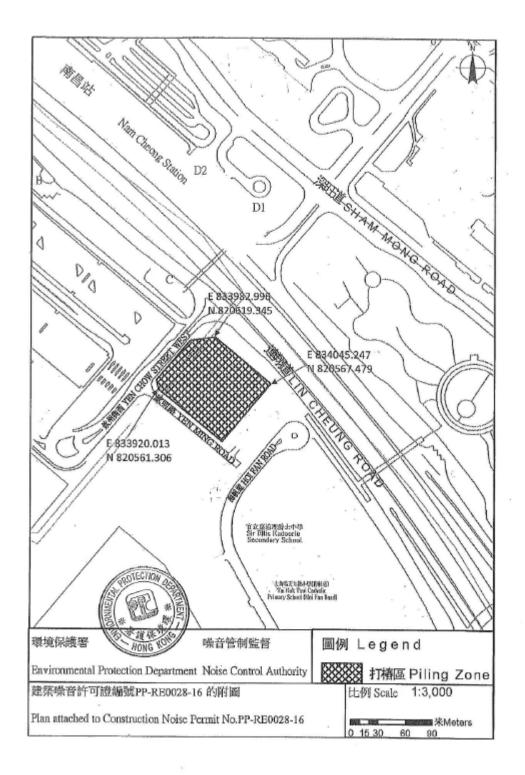
二零一六年十月七日

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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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

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

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

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

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

Days and hours : 0000-2400 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day no being a general holiday This part of the permit expires on : 23 May 2017 at 0700 hours One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noi permit is required to be kept on the construction site and made available for inspection by the Authority. Other conditions imposed on the use of the powered mechanical equipment :	Date and time of commencement :	24 November 2016	at	1900 hours
This part of the permit expires on : 23 May 2017 at 0700 hours One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noi permit is required to be kept on the construction site and made available for inspection by the Authority.	Days and hours : 0000-2400 hours on g	eneral holiday (including Sunday)	, 0000-0700 hours	and 1900-2400 hours on any c
One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noi permit is required to be kept on the construction site and made available for inspection by the Authority.	being a general holiday			
permit is required to be kept on the construction site and made available for inspection by the Authority.	This part of the permit expires on :	23 May 2017	at	0700 hours
Other conditions imposed on the use of the nowered mechanical equipment :	permit is required to be kept on the constru-	uction site and made available for	inspection by the A	authority.
	Other conditions imposed on the use of the	e powered mechanical equipment :		

EPD76A(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		D	
	prescribed construction work		Description of type rescribed construction	
	prescribed construction work		rescribed construction	www.
		Nil		
	· · · · · · · · · · · · · · · · · · ·			
			/	
	Validity of the construction noise perm		ibed construction work	
	Date and time of commencement : Days and hours : 0000-2400 hours o	24 November 2016	at (av) 0000-0700 hours	1900 hours and 1900-2400 hours on any day r
	being a general holiday.	in general nonday (including Sur	ay), 0000-0700 nouis	and 1700-2400 nours on any day n
	This part of the permit expires on :	23 May 2017	at	0700 hours
	Site layout plan(s), endorsed by the Au			
			on work:	
	construction noise permit or a copy the		struction site at all veh	
	construction noise permit or a copy the			
			struction site at all veh	
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Delete as necessary

5.



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[第5(a)條]

. . .

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:

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 圖則是本建築噪音許可證的一部分。

- 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)	5#

b. 可使用機動設備的建築噪音許可證有效期:

υ.	-1 DC 711 186 90	7 BX DH D 7 XE 910	5K E H - J 02 / A	59J -	
	生效日期及	と時間:	二零一六年	F十一月二十四日	下午七時
	日期及時間	1: 公眾假日	日(包括星期日)	的凌晨零時至晚上十二	時,公眾假日以外的任何一
	日凌晨零時	手至上午七時	及下午七時至晩	出十二時	
	此部分許可	「證屆滿日期	及時間:	二零一七年五月二十三 日 期	日 上午七時 時間
	动 统 kh A5 公	建造石木建筑	喝客能可辨能透		
		(曲方平 建 采 2.監督認可。	梁百計 可超加加	5 CGF 1+ 1000 900 AO2 1041 CD 944 7-1 4-	1 Mi . 12 JF 13 MB n7 H / H / H
d .	規限使用機	飞動設備的其	他條件:		
EPD76B(s)				-1-	





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- 4. 訂明建築工程

	#T	明建築7	[程的識]	解代碼				钉明建築工程	的類別的說明	
		7182 stc_1	124 78947	77 640			4	1778276-1.12	H 3 MH //3H 3B/C 73	
					無					
								_		
b.	L 可進行	訂明建	第二程	目的建築	噪音許	可證有效	女期:			
	生效日	期及問	\$問:			-変-	六年十一日	一十四日	下午七時	
				假日(包	括星期				 · 公眾假日以 	外的任何
							十二時。			
	此部分)許可讀	健国滿日	日期及時	·間:	3	☞一七年五月	二十三日	上午七時	
							日期		時間	
	蔽地盤	圖則須	存放於	建築地	盘供監	督隨時至	、顯示本許 医看一	可證准 予理	日前明建築日	<u>- 程的地</u> !
	蔽地盤	圖則須	存放於		盘供監	督隨時至		可證准 予 理	·(7 하 99 9년 유급	日本
	蔽地盤	圖則須	存放於	建築地	盘供監	督隨時至		可證准 予想	们前明建築」	-程的地!
	蔽地盤	圖則須	存放於	建築地	盘供監	督隨時至		可證准予理	(7)司切建築」	
	蔽地盤	圖則須	存放於	建築地	盘供監	督隨時至		可證准 予理	17日 切翅茶」	
d.	該 地 盤 規 限 進 	: 圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d.	該 地盤 規限 建 	: 圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :			出口飚,給予	_
d . 本 建	該 地盤 規限 建 	·圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d . 本 建	該 地盤 規限 建 	·圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d . 本 建	該 地盤 規限 建 	·圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d . 本 建	該 地盤 規限 建 	·圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d . 本 建	該 地盤 規限 建 	·圖則 須 :行訂明	[存放於]建築工	≿建築地 □程的其	盤供監	<u>督随時</u> ∃ :				_
d. 本 建	該 地盤 規限	 劉則 行訂明 音許可	[存放射]]建築工 遼或其	、建築地 □程的其 副本必	<u>盤供監</u> 他 低條 展示	督随時重 : 於建築均				_
d. 本 建	該 地盤 規限	 劉則 行訂明 音許可	[存放射]]建築工 遼或其	≿建築地 □程的其	<u>盤供監</u> 他 低條 展示	督随時重 : 於建築均				_
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d. 本 建	該 地盤 規限	 劉則 行訂明 音許可	[存放射]]建築工 遼或其	、建築地 □程的其 副本必	<u>盤供監</u> 他 低條 展示	督随時重 : 於建築均				_

★ 刪去不適用者

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Wed

Tue

Thu

Month Week Sun Mon



Appendix N Schedule of Examination at Sir Ellis Kadoories Secondary School (West Kowloon) and Monitoring Record

First Day of School Year Septemb Festival of Eid The day following the Mid-Autumn Festival /30 Dress Casual Day for the Community Chest National Day The day following the Chung Yeung Festival October 11* Monday Timetable (<u>20</u>) 27 28 1st Staff Development Day 21-28, 31 1st Term Test, Festival of Diwali 31/10-4/11 ESTP Training Camp for S2 & S3 1 Festival of Bhai Tika Parents' Night & AGM of PTA November P6 Information Day & Fun Fair 28 29 _____ 7.9 Decembe Speech Day Final Rehearsal, Speech Day <u>/13</u> 20* <u>/18</u> 13, 14, 16 Sports Day (Heats), Sports Day (Finals), School Picnic 2ŀ 20, 21 Friday Timetable, Class Party & Talent Show 22/12-2/1 Christmas and New Year Holidays 3-6, 4 After School Tutorials, Monday Timetabl ľ (9) (10)(11) (12)(13) 9-23 January Half-yearly Exam, Mock Exam for So (1) (24) <u>k</u> ŭ 24, 25 2nd Staff Development Day, Post-Examination Activities 26/1-4/2 Lunar New Year Holidays February 17 6, 6-10 2nd Term Commences, Discussion of Exam Papers 28 Parents' Dav <u>^</u> S6 Graduation Day March Δh Prize Giving Day & PTA Night 31 24-31 2nd Term Test April Ching Ming Festival 10-18 Easter Holidays <u>16</u> 23 24 25.26 S3 TSA Oral Examination Labour Day Т May The Birthday of the Buddha 17* 24 35 23 25 (<u>19)</u> 26 17, 19 Friday Timetable, 3rd Staff Development Day 26-31 After School Tutorials Tuen Ng Festival After School Tutorials 1-6(7)(8) (9) Yearly Examination & S3 TSA Examination June 7-22 (12)(13) 23-28 Discussion of Examination Paper 29-30 Post-Examination Activities HKSAR Establishment Day /4 3-10 Post-Examination Activities July Last Day of School Year , Release of HKDSE Results 11 12 13-14 S1 Registration Pre-S1 Attainment Test 12/7-31/8 Summer Vacation

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

Fri

Holidays, Special Days & Examinations

Examination Period Term Test Special Days Staff Development Days

School Holidays Public Holidays Discretionary Holidays * Special Timetable

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

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

10th / 16th January 2017

NSR 1	Sir Ellis Kadorie Secondary School (West Kowloon)							
Date	Monitoring Period	Weather	Wind Speed	L ₁₀ (30 min)	L90 (30 min)	L _{eq} (30 min)	Limit Level	
	7:00-7:30			65.7	56.6	63.6	65.0	
	7:30-8:00			66.2	56.9	63.9	65.0	
	8:00-8:30			66.5	57.2	64.1	65.0	
	8:30-9:00			66.9	57.6	64.7	65.0	
	9:00-9:30			65.7	56.4	63.5	65.0	
	9:30-10:00			66.8	56.9	64.6	65.0	
	10:00-10:30			66.4	56.3	64.0	65.0	
	10:30-11:00			66.9	55.0	64.7	65.0	
	11-00:11:30			65.6	57.3	63.8	65.0	
	11:30-12:00			66.3	57.6	64.2	65.0	
	12:00-12:30	Fine		67.8	58.2	65.0	65.0	
10 th Jan 2017	12:30-13:00		< 5 ms ⁻¹	66.7	57.1	64.3	65.0	
	13.00-13:30			66.9	56.2	64.7	65.0	
	13:30-14:00			66.1	57.5	64.5	65.0	
	14:00-14:30			65.5	55.8	63.7	65.0	
	14:30-15:00			65.9	55.2	63.1	65.0	
	15:00-15:30			66.2	55.7	63.9	65.0	
	15:30-16:00			66.3	56.0	64.4	65.0	
	16:00-16:30			66.6	56.7	64.1	65.0	
	16:30-17:00			66.3	55.4	64.6	65.0	
	17:00-17:30			65.5	56.3	63.7	65.0	
	17:30-18:00			66.2	57.0	64.2	65.0	
	18:00-18:30			67.1	57.9	64.7	65.0	
	18:30-19:00			65.7	56.1	63.4	65.0	
		Overa	all L _(30 min)	66.4	56.7	64.2	65.0	





NSR 1	Sir Ellis Kadorie Secondary School (West Kowloon)							
Date	Monitoring Period	Weather	Wind Speed	L ₁₀ (30 min)	L90 (30 min)	L _{eq} (30 min)	Limit Level	
	7:00-7:30			64.7	55.6	62.8	65.0	
	7:30-8:00			65.6	56.9	63.7	65.0	
	8:00-8:30			65.4	55.4	63.0	65.0	
	8:30-9:00			66.6	57.7	64.1	65.0	
	9:00-9:30			67.2	58.6	64.8	65.0	
	9:30-10:00			67.9	56.4	65.0	65.0	
	10:00-10:30			66.3	58.7	64.5	65.0	
	10:30-11:00			65.7	56.3	63.9	65.0	
	11-00:11:30			66.9	55.3	64.4	65.0	
	11:30-12:00			66.5	55.1	64.0	65.0	
	12:00-12:30	Fine		67.3	55.8	64.7	65.0	
16 th Jan 2017	12:30-13:00		< 5 ms ⁻¹	67.4	57.6	65.0	65.0	
	13.00-13:30			66.8	58.1	64.2	65.0	
	13:30-14:00			65.5	58.5	63.1	65.0	
	14:00-14:30			67.7	58.9	64.9	65.0	
	14:30-15:00			66.5	55.5	64.2	65.0	
	15:00-15:30			66.7	56.3	64.0	65.0	
	15:30-16:00			66.2	54.7	63.3	65.0	
	16:00-16:30			65.8	55.9	63.7	65.0	
	16:30-17:00			66.3	57.5	64.2	65.0	
	17:00-17:30			65.4	57.7	63.6	65.0	
	17:30-18:00			66.7	58.6	64.5	65.0	
	18:00-18:30			66.1	56.2	64.2	65.0	
	18:30-19:00			65.5	57.2	63.4	65.0	
		Overa	all L _(30 min)	66.4	57.0	64.1	65.0	

