

elemax Environmental and Energy Management Limited

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Our Ref. : TEEM/334/18/L/149/KM Date : 14 December 2018

By Hand

Environmental Protection Department

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

Attn: Ms. Kwok Wing Chi, Winnie

Dear Madam,

Contract No. SS D505 Environmental Permit No. EP-454/2013 Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle Depot at Yen Ming Road, West Kowloon Reclamation Area <u>Submission of Environmental Impact Monitoring Report November 2018</u>

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

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

Yours faithfully,

For and on behalf of Telemax Environmental and Energy Management Limited

Ir Eagle MO Managing Director

EM / NT / SC / KM / WW

Encl.

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



Allied Environmental Consultants Limited

Acousticians & Environmental Engineers

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

Our Ref: 1330/18-0023

14 December 2018

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 November 2018 (Issue 2)

Further to the receipt from Environmental Team (ET) of the captioned Monthly EM&A Report on 7th and 14th December 2018 via email, pursuant to Condition 3.4 of Environmental Permit, I hereby verify the captioned report (Issue 2).

Yours faithfully, For ALLIED ENVIRONMENTAL CONSULTANTS LIMITED

Grace Kwok Independent Environmental Checker GK/cwh

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

<u>By Email</u>





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:

TELEMAX

14 December 2018

Date

Certified by: Ir Nelson Tam

ENVIRONMENTAL TEAM LEADER

14 December 2018

Date

Verified by: Grace Kwok

INDEPENDENT ENVIRONMENTAL CHECKER

14 December 2018

Date

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Issue	Date	Prepared by	Checked by	Approved by	Remark
1	3 rd December 2018	Jackson Tse (Assistant Engineer) / Kiwi Man (Assistant Consultant)	Nelson Tam (Associate) / Susan Chen (Senior Consultant)	Eagle Mo (Managing Director)	
2	12 th December 2018	Jackson Tse (Assistant Engineer) / Kiwi Man (Assistant Consultant)	Nelson Tam (Associate) / Susan Chen (Senior Consultant)	Eagle Mo (Managing Director)	





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1.0 Executive Summary

1.1 In December 2015, Telemax Environmental and Energy Management Limited (TEEM) was appointed to conduct an Environmental Monitoring and Audit (EM&A) program for the proposed reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot, Yen Ming Road, West Kowloon Reclamation Area (FEHD). The site clearance and tree felling works were undertaken during the period from 10th December 2015 to 7th February 2016. The construction works were commenced on 29th February 2016 and all EM&A works were undertaken in accordance with the EM&A Manual and the requirements under the Environmental Permit EP-454/2013. This report is the thirty-third monthly EM&A report, which detailed the environmental monitoring and audit results recorded during the period from 1st November 2018 to 30th November 2018.

Reporting Change

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

Record of Complaints

1.3 No environmental complaint was recorded in the reporting month.

Record of Notification of Summons and Successful Prosecution

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





- 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 in November 2013.
- 2.4 The subject site is located at Yen Ming Road, West Kowloon Reclamation Area given in *Appendix H*. The subject site is bounded to the north by Nam Cheong Station, to the east by CLP Tak Kok Tsui Substation, to the south by Yuen Fat Building, and to the west by Cheung Sha Wan Wholesales Fish and Food Markets. Sir Ellis Kadoorie Secondary School (West Kowloon) and Fu Cheong Estate Fu Yun House, being the nearest educational and residential establishment, are located at around 100m and 270m from the site boundary respectively.
- 2.5 Key personnel and contact particulars are summarized in *Table 1*.

Role	Department / Company	Names	Contact Number
Project Proponent	Food and Environmental Hygiene Department	Ms. Lorraine Lo	3141 1227
Works Agent	Architectural Services Department	Mr. Sing-hin Sat	2867 3843
Architect's representative	P&T Architects and Engineers (Architectural)	Mr. Jim Hung	2832 3016
Main Contractor	China Road and Bridge Corporation	Mr. Vincent Chung	2283 1688
Environmental Team Leader	Telemax Environmental and Energy Management Ltd.	Ir. Nelson Tam	3610 8701
Independent Environmental Checker	Allied Environmental Consultants Ltd.	Ms. Grace Kwok	2815 7028

Table 1 Contact Details of Key Personnel



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





3.0 Environmental Status

Status of the Statutory Environmental Compliance

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

			Valid	Period	License/	
Statutory Reference	License/ Permit	License or Permit No.	From	То	Permit Holder	Remarks
EIAO	Environmental Permit	EP-454/2013	12-Nov- 13	N/A	FEHD	-
WPCO	Discharge License (Site)	WT00023331-2015	22-Jan-16	31-Jan-21	CRBC	Discharge of Industrial Trade Effluent in Contract No. SS D505 was approved on 22 Jan 2016.
WDO	Chemical Waste Producer Registration	5213-269-C1232- 18	15-Jan-16	N/A	CRBC	Chemical waste produced in Contract No. SS D505. The application was approved on 15 Jan 2016.
WDO	Billing Account for Disposal of Construction Waste	7024032	21-Dec-15	N/A	CRBC	Waste disposal in Contract No. SS D505. The application was approved on 21 Dec 2015.
NCO	Construction Noise Permit	GW-RE0704-18	1-Nov-18	28- Febraury-18	CRBC	Use of prescribed powered mechanical equipment during nighttime. (0000 to 2400 hours on general holidays, including Sundays, 0000 to 0700 hours and 1900-2400 hours on any day not being a general holiday.). The permit was approved on 15 June 2018.

Table 2 Status of Licenses and Permits

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





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 October 2018 submitted on 12 th November 2018	
4.2 & 4.3	Dedicated web site set up on 11 th April 2016	

Table 3 Summary of the Submission under the EP

Mitigation Measures for Construction Works

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



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Table 4 Interrelationship between Construction Activities and Mitigation Measures

Construction Works		Major Environmental Impact	Mitigation Measures
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	General housekeeping; Drilling; Hammering; Plastering works; Erection of bamboo scaffold, block wall, block wall metal frame and formwork; Painting works; Installation of block wall; Backfilling works; Steel fixing; Dismantling of formworks and falsework; Concrete surfacing; and Screeding works.	Construction dust, construction noise and waste management	 Tarpaulin cover was provided to minimize potential for damage or contamination of construction materials; Watering and impervious sheeting was provided to dusty materials; Water spraying 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 construction activities; Cement sealing, cover walkway pavement and pump addition were implemented.

4.0 Summary of EM&A Requirement

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

Noise

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

Environmental Audit

4.3 Site inspections should be conducted regularly to ensure that appropriate environmental protection and pollution control mitigation measures for noise, air quality, water quality, waste management and landscape and visual aspects are properly implemented for the

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construction works activities associated with the Project, as they are one of the most effective tools to enforce the environmental protection requirements at the works sites and works areas.

- 4.4 Regular site inspections should be carried out and led by the Architect's Representative and attended by the Contractor and ET at least once every week. The areas of inspection should not be limited to the environmental conditions, pollution control and mitigation measures within the works sites and works areas. It should also review the environmental conditions of that location that are beyond the boundary of the works sites and works areas likely to be affected directly or indirectly by the construction site activities. The ET Leader should make reference to the following information when conducting site inspection:
 - The EIA and EM&A recommendations on the environmental protection and pollution control mitigation measures;
 - On-going results of the EM&A programme;
 - The works progress and programme;
 - Proposals of individual works methodologies (which should include the proposal of the associated pollution control measures);
 - Contract specifications on environmental protection and pollution prevention control;
 - The relevant environmental protection and pollution control legislation; and
 - Previous site inspection findings that were undertaken by the ET and/or others.
- 4.5 The Contractor should keep the Architect's Representative and ET updated with all the relevant environmental related information on the construction contract to carry out the site inspections. The inspection findings and associated recommendations for improvements to the environmental protection and pollution control and outcome of the improvement should be recorded and followed up by the Contractor in an agreed timeframe.
- 4.6 The Architect's Representative, ET and Contractor should also carry out ad hoc site inspections if significant environmental problems are identified. Inspections may also be required subsequent to the receipt of environmental complaints, or as part of the



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

Action and Limit Level

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

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

Table 5 Action and Limit Levels for Construction Noise 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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Implementation 5.0 Status of Environmental **Mitigation**

Measures

- During reporting month, major works undertaken and/or completed during the reporting 5.1 month are listed as below:
 - General housekeeping;
 - Drilling;
 - Hammering;
 - Plastering works;
 - Erection of bamboo scaffold, block wall, block wall metal frame and formwork;
 - Painting works;
 - Backfilling works;
 - Steel fixing;
 - Dismantling of formworks and falsework;
 - Concrete surfacing; and
 - Screening works.
- 5.2 The relevant parties have implemented mitigation measures which include, but not limited to the following:
 - Tarpaulin cover was provided to minimize potential for damage or contamination of construction materials;
 - Watering and impervious sheeting was provided to dusty materials;
 - Water spraying was provided to haul road and excavation works;
 - Well-maintained and quiet plants were used;
 - Proper waste storage and sorting was applied;
 - Trip record was maintained properly;



Noise barrier was implemented during construction activities; and

- Cement sealing, cover walkway pavement and pump addition were implemented.
- 5.3 A total of 5 site inspections were conducted by the Environmental Team (ET) in this reporting period. Major observation by the ET, actions by the Contractor and outcome are summarized in *Table 7*.

Date	Non-compliances /	Action taken by	Outcome
	Observations / Reminders	Contractor	
2 nd November 2018	Nil.	Nil.	Nil.
7 th November 2018	Reminder: Please be reminded to remove water in the proposed planter location, as to avoid stagnant water staying on action.	Stagnant water shall be cleared regularly, especially after raining.	Stagnant water was removed as observed on 15 th November 2018.
15 th November 2018	Nil.	Nil.	Nil.
23 th November 2018	Nil.	Nil.	Nil.
30 th November 2018	Nil.	Nil.	Nil.

Table 7 Summary of Site Inspections

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

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6.0 Monitoring Methodology

Monitoring Parameter

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

Calibration and Maintenance

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



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

Table 8 Noise Monitoring Equipment

Item	Equipment	Model Number	Serial Number
1	Integrating Sound Level Meter	AWA5661	304042
2	Integrating Sound Level Meter	AWA5661	090078
3	Calibrator	Pulsar 100B	039507

Monitoring Locations

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

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

NSR denotes Noise Sensitive Receivers

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7.0 Monitoring Results

- 7.1 Impact noise monitoring was conducted at Sir Ellis Kadoorie Secondary School (NSR1) and Fu Cheong Estate Fu Yun House (NSR7) on 6th, 12th, 17th, 23th and 29th November 2018.
- 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 recorded the measured noise levels according to façade measurements. L_{10} and L_{90} represent sound levels that are exceeded 10% and 90% of the time respectively. Normally, L_{10} measurements can be considered as the average peak levels, whilst L_{90} levels can be considered as the average background noise levels. No exceedance was found during the reporting period at both NSR1 & NSR7 according to the monitoring results.

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NSR1		Sir	Ellis Kadooi	rie Second	lary School	-	
Date	Monitoring Time Period	Weather Condition	Wind Speed (m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Limit Level
6/11/2018	07:00-19:00	Sunny	<5	66.6	60.8	64.6	70.0
12/11/2018	07:00-19:00	Cloudy	<5	66.3	60.4	64.2	70.0
17/11/2018	07:00-19:00	Sunny	<5	66.1	60.1	64.1	70.0
23/11/2018	07:00-19:00	Cloudy	<5	66.2	60.4	64.0	70.0
29/11/2018	07:00-19:00	Fine	<5	66.2	59.9	64.3	70.0
	Average L	eq(30 min)			70.0		

Table 10 Noise Monitoring Results at NSR1

Remarks:

Unit in dB(A)

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

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

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

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		H	Fu Cheong I	Estate Fu Y	lun House		
Date	Monitoring Time Period	Weather Condition	Wind Speed (m/s)	L10(30 min)	L90(30 min)	Leq(30 min)	Limit Level
6/11/2018	07:00-19:00	Sunny	<5	72.8	65.7	70.8	75.0
12/11/2018	07:00-19:00	Cloudy	<5	73.1	66.0	71.1	75.0
17/11/2018	07:00-19:00	Sunny	<5	73.5	66.1	71.5	75.0
23/11/2018	07:00-19:00	Cloudy	<5	72.4	65.4	70.4	75.0
29/11/2018	07:00-19:00	Fine	<5	73.0	65.8	71.0	75.0
	Average Le	eq(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 non-examination session at Sir Ellis Kadoorie Secondary School (NSR1), the minimum and maximum noise levels measured in a single 30-min period were 62.1 dB(A) Leq(30min) and 66.3 dB(A) Leq(30min) respectively with an average of 64.2 dB(A) Leq(30min). Therefore, the results were not considered as exceedance. (Leq(30min) not greater than 65.0 dB(A) and 70.0 dB(A) for examination and non-examination session respectively).
- 7.4 The minimum and maximum noise levels measured in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) were 68.3 dB(A) $L_{eq(30min)}$ and 73.3 dB(A) $L_{eq(30min)}$ respectively with an average of 70.9 dB(A) $L_{eq(30min)}$. Therefore, the results were not considered as exceedance. ($L_{eq(30min)}$ not greater than 75.0 dB(A)).
- 7.5 Drilling and hammering were undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.

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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8.0 Non-compliance, Complaints, Notifications of Summons and

Status of Prosecutions

Record on Non-compliance of Action and Limit Levels

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

Record on Environmental Complaints Received

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

Record on Notifications of Summons and Successful Prosecution

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

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

8.5 As no notification of summon or successful prosecution was received, the associated review was not required.

Follow-up Actions Taken

8.6 As no notification of summons or successful prosecution was received, the associated follow-up action was not required.

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Forecast of Works Programme and Future Key Issues 9.0

- 9.1 The major site work scheduled to be commissioned in the coming three months include:
 - R.C. Frame works;
 - Plumbing installation works;
 - Drainage installation works;
 - Electrical installation works;
 - MVAC installation works:
 - Fire services installation works;
 - Site works of aluminum window / louvre and curtain wall;
 - Grasscrete works:
 - Internal finishing works;
 - Mechanical handling and lifting installation works;
 - Lift services works;
 - Roofing works;
 - Sanitary fitting installation works;
 - External and landscaping works;
 - Soft Landscaping; and
 - Glazing works.
- 9.2 Key issues to be considered in the coming three months include:
 - Properly store and label oils and chemicals on site;
 - Chemical, chemical waste and waste management;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Properly maintain all drainage facilities and wheel washing facilities on site;





- Generation of dust from construction works;
- Noise impact from operation equipment and machinery on site;
- Generation of site surface runoffs and wastewater from activities on site; and
- Tree protective measures for all retained trees should be well maintained.
- 9.3 The environmental site inspection and environmental monitoring will be continued in the coming month. Impact monitoring for noise in accordance with the approved EM&A Manual has commenced since 4^{th} March 2016. The tentative monitoring schedule is appended in *Appendix G*.

10.0 Solid and Liquid Waste Management Status

- 10.1 The contractor has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 10.2 As advised by the Contractor, 569.12 tons excavated C&D materials were disposed at public fills during the reporting period and 150.43 tons of general refuse was disposed at NENT landfill. 3.69 tons of recyclable (e.g. metals, paper/cardboard packaging or plastics) was collected by recycling contractor in the reporting month. 0 tons of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0 tons of chemical waste was collected by licensed contractor in the reporting period. Monthly Waste Flow Table is given in *Appendix L*.
- 10.3 The Contractor was advised to maintain on site waste sorting and recording system and maximize reused / recycle of C&D wastes.





11.0 Comments, Recommendations and Conclusions

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

Chemical Waste and Waste Management

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

Water Quality Impact

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

Air Quality Impact

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

Construction Noise Impact

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



Landscape and Visual Impact

- Retained tree should be properly fenced off and the working area; and
- Mulching shall be provided to the retained tree.
- 11.3 The mitigation measures had been implemented to minimize the environmental impacts due to the construction of FEHD Sai Yee Street Environmental Hygiene Offices-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 6th, 12th, 17th, 23th and 29th November 2018.
- 11.5 For non-examination session at NSR1, the minimum and maximum noise level measured in a single 30-min period were 62.1 dB(A) Leq(30min) and 66.3 dB(A) Leq(30min) respectively with an average of 64.2 dB(A) Leq(30min). Therefore, the results were not considered as exceedance. (Leq(30min) not greater 70.0 dB(A) for non-examination session respectively).
- 11.6 The minimum and maximum noise levels measured in a single 30-min period at the Fu Cheong Estate Fu Yun House (NSR7) were 68.3 dB(A) L_{eq(30min)} and 73.3 dB(A) L_{eq(30min)} respectively with an average of 70.9 dB(A) L_{eq(30min)}. Therefore, the results were not considered as exceedance. (L_{eq(30min)} not greater than 75.0 dB(A)).
- 11.7 Drilling and hammering were undertaken on-site and this was identified as the major influencing factors affecting the monitoring results.
- 11.8 In the reporting period, no environmental complaint and no notification of summons or successful prosecution was received.
- 11.9 Weekly construction phase site inspections and landscape and visual impact 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, 569.12 tons excavated C&D materials were disposed at public fills and 150.43 tons of general refuse was disposed at NENT landfill. 3.69 tons of recyclable (e.g. metals, paper/cardboard packaging or plastics) was collected by the recycling contractor.
- 11.11 Construction activities to be undertaken in the next three months include R.C. Frame works, plumbing installation works, drainage installation works, electrical installation works, MVAC installation works, fire services installation works, site works of aluminum window / louvre and curtain wall, grasscrete works, internal finishing works, mechanical handling lifting installation works, lift services works, roofing works, sanitary fitting installation works and external and landscaping works. Potential environmental impacts include generation of various wastes including oil and chemical wastes, general refuse and construction waste, maintenance work to all drainage facilities and wheel washing 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





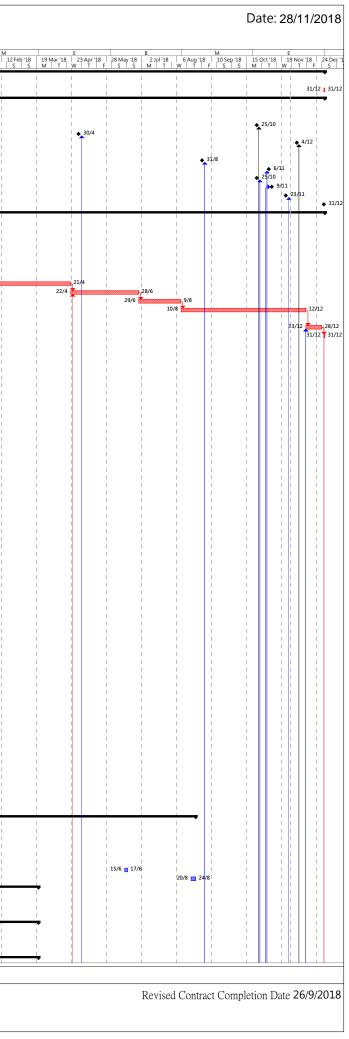
Master Construction Programme (Rev.15)

Page 1

k Name	Duration				
	Duration	Start	Finish	E M E M E M E B M E B M E B M B E B M B E B M B E B M B B M B E B M B M B B M B	Dec '17 8 Jan '18 T W T
Project commencement	1083 days 1 day	Wed 9/12/15 Wed 9/12/15	Mon 31/12/18 Wed 9/12/15		1
Project completion	1 day	Mon 31/12/18	Mon 31/12/18		
lestone Dates	1083 days	Wed 9/12/15	Mon 31/12/18	9/12 19/12	
Project commencement Submission / Application of Form WWO 046 (Part I & II)	1 day 1 day	Wed 9/12/15 Wed 22/3/17	Wed 9/12/15 Wed 22/3/17		1
Submission of Form WWO46 Part IV	1 day	Thu 25/10/18	Thu 25/10/18	T	
					i
Handover of Transformer Room & Switch Room to CLP	1 day	Tue 2/1/18	Tue 2/1/18		× 2/1
Power Energisation	1 day	Fri 31/8/18	Fri 31/8/18		
Form 501 Submission					
FSD inspection	3 days	Fri 9/11/18	Tue 13/11/18		
itical Path Summary	1083 days	Wed 9/12/15			
Project commencement	0 days	Wed 9/12/15	Wed 9/12/15		
As-built record submission and selection of loading test	14 days	Sat 6/8/16	Fri 19/8/16		1
Loading test (70% completed)	38 days	Sat 20/8/16	Mon 26/9/16		
				30/1 30/1 31/5	
R.C. Frame of A2 (G.L.1-4/A-F), G/F~UR/F,	343 days	Sun 14/5/17	Sat 21/4/18		
External Wall Plastering Works	68 days	Sun 22/4/18	Thu 28/6/18		
External Wall Filing Works Excavation and contstruction of metal gate and fence	42 days 95 days	Fri 29/6/18 Fri 10/8/18	Wed 12/12/18		
wall footing at Utility reserve area					
	12 days 1 day	Thu 13/12/18 Mon 31/12/18	Fri 28/12/18 Mon 31/12/18		
eparation works	365 days	Thu 10/12/15	Thu 8/12/16		
Mobilization	7 days	Thu 10/12/15	Wed 16/12/15		1
Setting up site office (2) Material fabrication and	60 days	Mon 18/4/16		18/4 2000000000000000000000000000000000000	
construction		Thu 10/10/15	Thu 14/7/17		
Setting out of site area	218 days 66 days	Thu 10/12/15 Thu 10/12/15	Sat 13/2/16	0/12 13/2	1
Hoarding (1) installation	113 days	Thu 10/12/15	Thu 31/3/16		i
Hoarding (2) painting and lighting Removal of existing trees	60 days	Fri 1/4/16 Thu 10/12/15			
Removal of existing trees Hoarding enhancement work	60 days 45 days	Tue 25/10/16	Sun 7/2/16 Thu 8/12/16	25/10 25/10 3/12	
ing work	446 days	Wed 9/12/15	Sun 26/2/17		
				9/12	1
Review of piling design by SCU	30 days	Tue 5/1/16	Wed 3/2/16	5/1 2/2 3/2	
Coordination with MTRC and Method statement for	21 days	Thu 4/2/16	Wed 24/2/16	4/2 2000 24/2	
	45 days	Mon 14/12/15	Wed 27/1/16	14/12 27/1 I I I I I I I I I I I I I I I I I I I	
Material testing	141 days	Mon 28/12/15	Mon 16/5/16		
				28/12 2000 11/1 12/4 12/4	1
H-Pile Delivery (Batch 6)	1 day	Wed 13/4/16	Wed 13/4/16	13/4 13/4	
Delivery of Splicing Steel Plate (1st Batch)	1 day	Sun 21/2/16	Sun 21/2/16		1
					I
Material Testing for H-pile (Batch 2, 3 & 4 & Batch 1	15 days	Thu 28/1/16	Thu 11/2/16		1
	12 dove	Eri 22/4/14	Wod //5/16		i
16mm thk steel plate)	15 udys	F11 22/4/10	Weu 4/3/10		
Completion of monitoring check points, noise barrier and	30 days	Mon 8/2/16	Tue 8/3/16	8/2 8/2	I
3	104 days	Thu 10/3/16	Tue 21/6/16		
Trial pile driving (21 nos.)	71 days	Thu 10/3/16	Thu 19/5/16	10/3 mbuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu	1
					i i
Approval of Hiley Formula Data and Final Set Table	21 day	Wed 1/6/16	Tue 31/5/16 Tue 21/6/16	1/6	
Installation of working pile	332 days	Fri 1/4/16	Sun 26/2/17	a a a a h a a h a a a a a a a a a la a a a a a a a a a	1
	127 days	Fri 1/4/16 Fri 1/4/16		1/4 5 /8 1 1 1 1 1 1 1 1 1 1	
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	22/6 2007 20/8	i
As-built record submission and selection of loading tes	14 days	Sat 6/8/16	Fri 19/8/16	6/8 600 19/8	
Loading test (including set up)*	38 days	Sat 20/8/16	Mon 26/9/16	20/8	1
Re-drive / PDA test and CAPWAP analysis for	4 days	Tue 25/10/16		25/10 27/2010	
FA7-P1, FA7-P2, FA7-P3 Pa. drive / PDA test and CAPWAP analysis for		Wod 2/11/14	Fri 4/11/1/		
FA7-P1, FA7-P2, FA7-P3 (2nd time)	s days	weu 2/11/16	F114/11/16		1
Proof Drilling Work for FA7	7 days	Thu 17/11/16	Wed 23/11/16	17/11/0 12/11	
wer crane	851 days	Tue 26/4/16	Fri 24/8/18		
Submission of tower crane proposal	32 days	Tue 26/4/16	Fri 27/5/16		1
Comments on tower crane proposal Setting up of tower crane	1 day 87 days	Mon 14/11/16	Tue 9/8/16 Wed 8/2/17		
ELS for TC1, TC2	40 days	Mon 14/11/16	Fri 23/12/16		i
Setting up of tower crane TC1 & TC2 Dismantle of tower crane TC1	30 days	Tue 10/1/17 Fri 15/6/18	Wed 8/2/17 Sun 17/6/18		1
Dismantle of tower crane TC2	3 days 5 days	Mon 20/8/18	Fri 24/8/18		i i
e caps	741 days	Thu 10/3/16	Tue 20/3/18		
				10/3 18/4 13/5 500 13/6	
ELS design submission and approval	86 days	Wed 6/4/16	Thu 30/6/16		
Construction of pile caps (ELS in Two Stage)	540 days	Tue 27/9/16	Tue 20/3/18		
Construction of pile cap with open cut method	175 days	Sat 4/2/17	Fri 28/7/17		1
Backfilling works for Pile Cap	356 days	Thu 30/3/17	Tue 20/3/18		
	ast Manhole Connection Completion Water Certificate Obtained (Plumbing Installation) Handover of Transformer Room & Switch Room to CLP Power Energisation In certificate Obtained (Fireman's Lift) Form 501 Submission SD inspection SD inspection SD inspection SD inspection SD inspection Project completion Utical Path Summary Project completion Apple (305x305x180) - total 399nos As built record submission and selection of loading test coading test (70% completed) Construction of Pile cap with sheetpile (80% Completed) Backfilling works for Pile Cap R.C. Frame of A2 (G.1.1-4/A-F), GF-URJF, External Wall Taing Works Excavation and construction of metal gate and fence wall looting at Utility reserve area General inspection with FEHD/ArchSD/S.O. Site Handover esparation works Wobilization Condition survey and U/G utility survey Setting up site office (2) Material fabrication and construction orstruction of set area Hoarding (1) installation Hoarding (2) pathing and lighting Removal of existing trees Hoarding enhancement work ing work Design Submission Preparation and submit piling design Newlew of pilicing SU SU Coordination with MTRC and Method statement for MTRC Approval Notise permit application Material Testing for H-pile (Batch 1, 0, 4) H-Pile Delivery (Datch 2, 3, 8, 4, 8, Batch 1 16mm thk, steel plate) Material Testing for H-pile (Batch 2, 3, 8, 4, 8, Batch 1 16mm thk, steel plate) Material Testing for H-pile (Batch 2, 3, 8, 4, 8, Batch 1 16mm thk, steel plate) Material Testing for H-pile (Batch 2, 3, 8, 4, 8, Batch 1 16mm thk, steel plate) Material Testing for H-pile (Batch 1, 5, 6, 8, Batch 2, 1 Materi	ast Manhole Connection Completion 1 day Water Certificate Obtained (Pinema's Lift) 1 day Tic certificate Obtained (Firema's Lift) 1 day Tic certificate Obtained (Firema's Lift) 1 day Project completion 1 day Project completion 1 day Project contencement 0 days Project contencement 0 days Softwission and selection of loading test 14 days Construction OF Pile cap with sheeptile (80% Completed) 184 days SockWitt Construction OF Pile cap 45 days Sc. Frame of A2 (C L 1-4/A-F), GF-UR/F, 34 days Startantion OF the cap with sheeptile (80% Completed) 184 days Sackfilling works for Pile Cap 42 days Sc. Frame of A2 (C L 1-4/A-F), GF-UR/F, 34 days Startanti Wall Tiling Works 64 days Scaration and construction of metal gate and fence 95 days Scaration and construction of metal gate and fence 96 days Stelling us its office (1) Daving submission and approx. 10 days Scafting us its office (2) Material fabrication and 50 days Stelling us its office (2) Material fabrication and 50 days Ste	asit Marbole Connection Completion 1 day Mon 304/16 Water Certificat Obtained (Finama's Lift) 1 day Tue 471/216 Prover Energisation 1 day Tue 471/216 Sport Energisation 1 day Tue 471/216 Final Statistion 1 day Tue 471/126 Final Statistion 1 day Tue 471/126 Final Statistion 1 day Wed 971/215 Project Commencement 0 days Wed 971/215 Applie Colocitation 11 day Wed 971/215 Applie Colocitation 11 day Wed 971/215 Applie Colocitation 11 days Wed 971/215 Applie Colocitation of The Provide Colocitation of Colocitation 1 days Sat 408716 Construction of Price ap 45 days Sun 14/57171 Constructure of Price ap with sheetpile (80% Completed) 34 days Sun 14/57171 Constructure of The Respection with FEHD/ArchSD/SO. 12 days Fit 10/7125 Constructure 36 days Fit 10/7125 Fit 10/7125 Constructure 36 days Fit 10/7125 Fit 10/7125 Constructure 36 days Men 31/72718 M	ast Method Commedian (Pumbing testing) 1 day Mon 30/478 Mon 30/478 Marce Certificac Obtained (Pumbing testing) 1 day Tue 2/178 Tue 4/178 Marce Contract Commer Room 3 Subth Room (o. C.P. 1 day Tue 3/178 Tue 4/178 An exert Energistical Cotained 1 day Tue 3/178 Tue 4/178 An exert Energistical Cotained 1 day Tue 3/178 Mon 30/478 An exert Energistical Cotained 1 day Mon 31/1788 Mon 31/1788 Septer completion 1 day Mon 31/1788 Mon 31/1788 Mone Contract Subrission and Selection of Loading test 11 days Full 1/166 Fri 320116 Mone Contract Subrission and Selection of Loading test 14 days Sale 4076 Full 2/1718 Mone Contract Subrission and Selection of Loading test 14 days Sale 4076 Full 2/1718 Mone Contract Subrission and Selection of Loading test 14 days Sale 4076 Full 2/1718 Mone Contract Subrission and Selection of Loading test 14 days Full 2/1718 Mone 31/1718 Mone Contract Subrission and Selection of Loading test 14 days Full 2/1718	

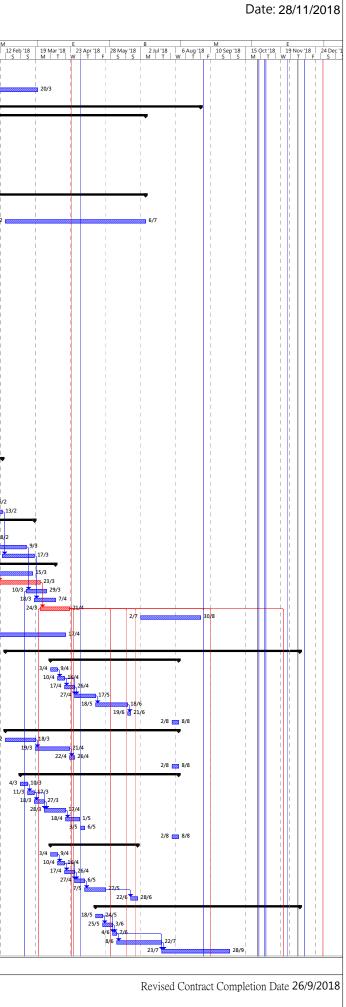
Remarks:

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close



nina Road and Bridge Corporation				Master Construction Programme (Rev.15) Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
Task Name	Duration	Start	Finish	E B M E B M
A1 (G.L.1-5/F-K) A2 (G.L.1-5/ A-F)	23 days	Thu 30/3/17	11120010	T W T F S S M T W T T F S S M T W T W T F S S M T W T W T F S S M T W T W T F S S M T W T W T F S S M T W T W T F S S M T W T W T F S S M T W T W T W T M T W T F S S M T W T W T W T W T W T M T W T W T F S S M T W T W T W T M T W T F S S M T W T W T W T W T M T W T M T W T K M T W T W T M T W T M T W T M T W T W T
A3 (G.L.5-9/ F-K)	22 days 90 days	Sat 22/4/17 Thu 18/5/17	Sat 13/5/17 Tue 15/8/17	18/5
A4 (G.L.5-9/ A-F) Construction of Pile cap FA7 (including backfill)	52 days 34 days	Sun 28/1/18 Wed 22/2/17	Tue 20/3/18 Mon 27/3/17	22/2 27/3
Superstructure	496 days	Sat 22/4/17	Thu 30/8/18	
R.C. Frame Backfill works for Pile cap to G/F Beam	441 days 199 days	Sat 22/4/17 Sat 22/4/17	Fri 6/7/18 Mon 6/11/17	
A1 (G.L.1-4/F-K) A2 (G.L.1-4/A-F)	29 days 48 days	Sat 22/4/17 Sun 14/5/17	Sat 20/5/17 Fri 30/6/17	22/4 20/5 14/5 20/5
A3 (G.L.4-7/ F-K)	29 days	Fri 26/5/17	Fri 23/6/17	26/5 23/6 1/7 2000 23/7
A5 (G.L.7-9/ F-K) Ramp (G.L.6-9/ E-F)	29 days 40 days	Sat 1/7/17 Sun 30/7/17	Sat 29/7/17 Thu 7/9/17	30/7
A4 (G.L.4-7/ A-F) A6 (G.L.7-9/ A-F)	19 days 41 days	Fri 8/9/17 Wed 27/9/17	Tue 26/9/17 Mon 6/11/17	
G/F Slab (include backfill from G/F Beam to on	414 days	Fri 19/5/17	Fri 6/7/18	
grade slab) A1 (G.L.1-4/F-K)	30 days	Fri 19/5/17	Sat 17/6/17	12/9 12/12 12/12
A2 - A6 (G.L.1-9/A-K) G/F to UG/F	140 days 188 days	Sat 17/2/18 Thu 1/6/17	Fri 6/7/18 Tue 5/12/17	
A1 (G.L.1-3/F-K)	43 days	Thu 1/6/17	Thu 13/7/17	
A2 (G.L.1-3/A-F) A3 (G.L.4-5/ F-K)	26 days 27 days	Sat 1/7/17 Sat 22/7/17	Wed 26/7/17 Thu 17/8/17	
A4 (G.L.3-5/ A-F)	26 days	Mon 7/8/17	Fri 1/9/17	7/8 21/9 21/8 21/8 21/8
A5 (G.L.8-9/ F-K) Ramp (G.L.6-9/ E-F) A6 (G.L.7-9/ A-F)	71 days 15 days	Mon 21/8/17 Tue 12/9/17	Mon 30/10/17 Tue 26/9/17	
A6 (G.L.7-9/ A-F) Water Tanks	29 days 30 days	Tue 7/11/17 Sun 24/9/17	Tue 5/12/17 Mon 23/10/17	
Water Tank (G.L.4-5/F-K)	30 days	Sun 24/9/17	Mon 23/10/17	
G/F & UG/F to 1/F A1 (G.L.1-3/F-K)	164 days 43 days	Thu 20/7/17 Thu 20/7/17	Sat 30/12/17 Thu 31/8/17	20/7
A2 (G.L.1-3/A-F) A3 (G.L.4-7/ F-K)	47 days 37 days	Thu 27/7/17 Sun 17/9/17	Mon 11/9/17 Mon 23/10/17	
A4 (G.L.3-5/ A-F)	75 days	Sat 2/9/17	Wed 15/11/17	
A5 (G.L.7-9/ F-K) Ramp (G.L.3-6/ E-F)	54 days 21 days	Tue 31/10/17 Wed 27/9/17	Sat 23/12/17 Tue 17/10/17	2/12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A6 (G.L.7-9/ A-F)	25 days	Wed 6/12/17	Sat 30/12/17	6/12
1/F to 2/F A1 (G.L.1-4/F-K) A2 (G.L.1-4/A-F)	143 days 36 days	Mon 4/9/17 Mon 4/9/17	Wed 24/1/18 Mon 9/10/17	
A2 (G.L.1-4/A-F) A3 (G.L.4-7/ F-K)	38 days	Wed 27/9/17	Fri 3/11/17 Sat 16/12/17	
Ramp (G.L.3-6/ E-F)	54 days 43 days	Tue 24/10/17 Wed 18/10/17	Wed 29/11/17	
A4 (G.L.4-7/ A-F) A5 (G.L.7-9/ F-K)	17 days 25 days	Thu 16/11/17 Sun 24/12/17	Sat 2/12/17 Wed 17/1/18	16/11 2/12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A6 (G.L.7-9/ A-F)	25 days	Sun 31/12/17	Wed 24/1/18	
2/F to 3/F A1 (G.L.1-4/F-K)	127 days 63 days	Tue 10/10/17 Tue 10/10/17	Tue 13/2/18 Mon 11/12/17	
A2 (G.L.1-4/A-F) A3 (G.L.4-7/ F-K)	48 days 18 days	Sat 4/11/17 Sun 17/12/17	Thu 21/12/17 Wed 3/1/18	
A4 (G.L.4-7/ A-F)	39 days	Sun 3/12/17	Wed 10/1/18	17/12 2000 3/1 3/12 2000 10/1
A5 (G.L.7-9/ F-K) A6 (G.L.7-9/ A-F)	20 days 20 days	Thu 18/1/18 Thu 25/1/18	Tue 6/2/18 Tue 13/2/18	
3/F to 4/F	96 days	Tue 12/12/17	Sat 17/3/18	
A1 (G.L.1-4/F-K) A2 (G.L.1-4/A-F)	47 days 49 days	Tue 12/12/17 Fri 22/12/17	Sat 27/1/18 Thu 8/2/18	
A5 (G.L.7-9/ F-K) A6 (G.L.7-9/ A-F)	31 days 32 days	Wed 7/2/18 Wed 14/2/18	Fri 9/3/18 Sat 17/3/18	
4/F to R/F	70 days	Sun 28/1/18	Sat 7/4/18	
A1 (G.L.1-4/F-K) A2 (G.L.1-4/A-F)	47 days 43 days	Sun 28/1/18 Fri 9/2/18	Thu 15/3/18 Fri 23/3/18	
A5 (G.L.7-9/ F-K) A6 (G.L.7-9/ A-F)	20 days 21 days	Sat 10/3/18 Sun 18/3/18	Thu 29/3/18 Sat 7/4/18	
R/F to UR/F	29 days	Sat 24/3/18	Sat 21/4/18	
Late cast portions (Temp openings for Tower Crane, Material Hoist, Water Tank, etc)	60 days	Mon 2/7/18	Thu 30/8/18	
Material and Shopdrawing submissions for mock up items	180 days	Fri 20/10/17	Tue 17/4/18	
Sample of finished work	266 days	Sat 17/2/18	Fri 7/12/18	
Confirmation of Setting Out	128 days 7 days	Tue 3/4/18 Tue 3/4/18	Wed 8/8/18 Mon 9/4/18	
Flooring screeding Wall and Floor Tiles	7 days 10 days	Tue 10/4/18 Tue 17/4/18	Mon 16/4/18 Thu 26/4/18	
BS Installation	21 days	Fri 27/4/18	Thu 17/5/18	
Ceiling Installation Install Sanitary Fitting	32 days 3 days	Fri 18/5/18 Tue 19/6/18	Mon 18/6/18 Thu 21/6/18	1 1
General Cleaning and Inspection of Mock Up Locker	7 days 173 days	Thu 2/8/18 Sat 17/2/18	Wed 8/8/18 Wed 8/8/18	
Confirmation of Shop Drawing and Colour selection	30 days	Sat 17/2/18	Sun 18/3/18	
Fabrication Installation	34 days 5 days	Mon 19/3/18 Sun 22/4/18	Sat 21/4/18 Thu 26/4/18	
General Cleaning and Inspection of Mock Up	7 days	Thu 2/8/18	Wed 8/8/18	
Changing & Shower Room Confirmation of Setting Out	158 days 7 days	Sun 4/3/18 Sun 4/3/18	Wed 8/8/18 Sat 10/3/18	
Flooring screeding Wall and Floor Tiles	7 days 10 days	Sun 11/3/18 Sun 18/3/18	Sat 17/3/18 Tue 27/3/18	1 1
BS Installation	21 days	Wed 28/3/18	Tue 17/4/18	
Ceiling Installation Install Sanitary Fitting	14 days 4 days	Wed 18/4/18 Thu 3/5/18	Tue 1/5/18 Sun 6/5/18	
General Cleaning and Inspection of Mock Up	7 days	Thu 2/8/18	Wed 8/8/18	
Corridor Confirmation of Setting Out	87 days 7 days	Tue 3/4/18 Tue 3/4/18	Thu 28/6/18 Mon 9/4/18	
Flooring screeding Wall and Floor Tiles	7 days 10 days	Tue 10/4/18 Tue 17/4/18	Mon 16/4/18 Thu 26/4/18	
BS Installation	10 days	Fri 27/4/18	Sun 6/5/18	
Ceiling Installation General Cleaning and Inspection of Mock Up	21 days 7 days	Mon 7/5/18 Fri 22/6/18	Sun 27/5/18 Thu 28/6/18	
G/F Entrance lobby	176 days	Fri 18/5/18	Fri 7/12/18	
Confirmation of Setting Out Plastering to wall	7 days 10 days	Fri 18/5/18 Fri 25/5/18	Thu 24/5/18 Sun 3/6/18	
Erection of bamboo scaffold BS Installation	4 days 45 days	Mon 4/6/18 Fri 8/6/18	Thu 7/6/18 Sun 22/7/18	
	45 days 60 days	Mon 23/7/18	Fri 28/9/18	
Lift Door Installation	00 uays			

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close



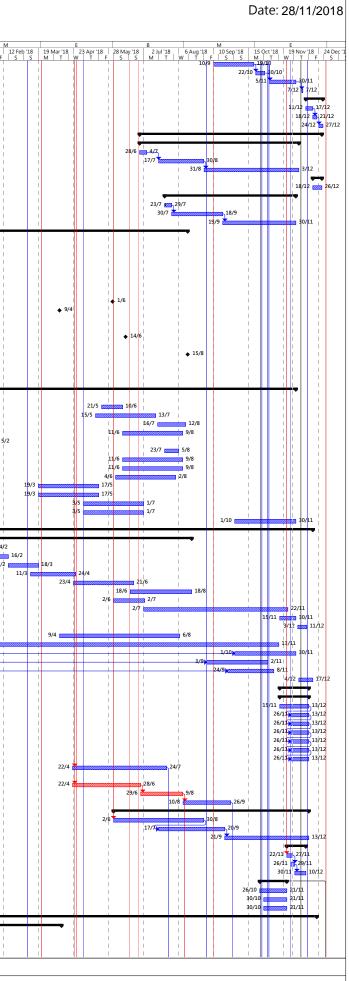
ina Road and Bridge Corporation				Master Construction Programme (Rev.15) Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)	
Task Name	Duration	Start	Finish E		
Window Wall Installation	30 days	Mon 10/9/18	Fri 19/10/18	4 Jan 16 8 Feb 16 14 Mar 16 18 Apr 16 23 May 16 27 Jun 16 1 Aug 16 5 Sep 16 10 Oct 16 14 Nov 16 19 Dec 16 23 Jan 17 27 Feb 17 3 Apr 17 17 Jul 17 17 Jul 17 21 Aug 17 25 Sep 17 30 Oct 17 4 Dec 16 5 Sep 16 10 Oct 16 14 Nov 16 19 Dec 16 23 Jan 17 V T F S S M T W T F S S S M T W T W T F S S S M T W	ec'17 8 Jar
Ceiling Installation	7 days	Mon 22/10/18	Tue 30/10/18		1
Feature Wall and Floor Tiles General Cleaning and Approval of Mock Up	20 days 1 day	Mon 5/11/18 Fri 7/12/18	Fri 30/11/18 Fri 7/12/18		1
Grasscrete (G/F External parking area)	13 days	Tue 11/12/18	Thu 27/12/18 Mon 17/12/18		
Lay sub-base and sand Lay grasscrete block	5 days 4 days	Tue 11/12/18 Tue 18/12/18	Fri 21/12/18		
Soil and seed Aluminium Features	4 days 148 days	Mon 24/12/18 Thu 28/6/18	Thu 27/12/18 Wed 26/12/18		
External cladding & louvre feature	131 days	Thu 28/6/18	Mon 3/12/18		
Setting out works Installation of GMS frame	7 days 45 days	Thu 28/6/18 Tue 17/7/18	Wed 4/7/18 Thu 30/8/18		1
Fixing of Aluminium Features	67 days	Fri 31/8/18	Mon 3/12/18		
Green wall feature Installation of wire rope	7 days 7 days	Tue 18/12/18 Tue 18/12/18	Wed 26/12/18 Wed 26/12/18		
Parapet wall feature Setting out works	105 days 7 days	Mon 23/7/18 Mon 23/7/18	Fri 30/11/18 Sun 29/7/18		i i
Installation of GMS frame	45 days	Mon 30/7/18	Tue 18/9/18		
Fixing of Aluminium Features Major Material Submission and Approval (details refer to	53 days 509 days	Wed 19/9/18 Thu 23/3/17	Fri 30/11/18 Wed 15/8/18		1
submission schedule)					
Solid concrete block Liquid membrane waterproofing	0 days 0 days	Mon 16/10/17 Thu 11/5/17	Mon 16/10/17 Thu 11/5/17		
Cementitious waterproofing coating	0 days	Mon 3/7/17	Mon 3/7/17		
Floor Tiles Wall Tiles	0 days 0 days	Fri 20/10/17 Wed 14/6/17	Fri 20/10/17 Wed 14/6/17	↓ 20/10 ↓ 14/6	
Plastic laminate panel (wood grain pattern)	0 days	Wed 17/5/17	Wed 17/5/17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Acoustic timber wall panel system Folding partitions	0 days 0 days	Fri 1/6/18 Mon 9/4/18	Fri 1/6/18 Mon 9/4/18		
Ironmongeries	0 days	Wed 7/6/17	Wed 7/6/17	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
Toilet cubicle partitions Ceiling System	0 days 0 days	Thu 13/7/17 Thu 14/6/18	Thu 13/7/17 Thu 14/6/18		
Locker system External Aluminium features	0 days 0 days	Thu 13/7/17 Wed 15/8/18	Thu 13/7/17 Wed 15/8/18	· · · · · · · · · · · · · · · · · · ·	1
Vinyl floor tile	0 days	Thu 23/3/17	Thu 23/3/17	23/3	i.
Carpet tile External and internal paint	0 days 0 days	Tue 16/1/18 Tue 16/1/18	Tue 16/1/18 Tue 16/1/18		•
hop drawing Submission and Approval (details refer to	273 days	Mon 5/2/18	Fri 30/11/18	i i <td></td>	
ubmission schedule) Glazing doors	21 days	Mon 21/5/18	Sun 10/6/18		
Metal Door and access panels	60 days	Tue 15/5/18	Fri 13/7/18		
Aluminium Features Suspensed Ceiling and Fire Resisting Enclosure System	28 days 60 days	Mon 16/7/18 Mon 11/6/18	Sun 12/8/18 Thu 9/8/18		
all Arrest System	0 days	Mon 5/2/18	Mon 5/2/18		
Acoustic Operable Wall System Timber Door	14 days 60 days	Mon 23/7/18 Mon 11/6/18	Sun 5/8/18 Thu 9/8/18		
Timber Cabinet Roller Shutters and Fire Shutters	60 days 60 days	Mon 11/6/18 Mon 4/6/18	Thu 9/8/18 Thu 2/8/18		1
Metal railing system	60 days	Mon 19/3/18	Thu 17/5/18		
Waterproofing System Toilet and Shower Cubicle Partition Systems	60 days 60 days	Mon 19/3/18 Thu 3/5/18	Thu 17/5/18 Sun 1/7/18		
Changing Room Lockers System	60 days	Thu 3/5/18	Sun 1/7/18		
Signage nternal Finishing Works	45 days 344 days	Mon 1/10/18 Thu 7/12/17	Fri 30/11/18 Mon 17/12/18		
Block Wall Erection	254.88 days	Thu 7/12/17	Sat 18/8/18		-
G/F UG/F	60 days 30 days	Thu 7/12/17 Thu 18/1/18	Sun 4/2/18 Fri 16/2/18		18/1
1/F 2/F	30 days 45 days	Sat 17/2/18 Sun 11/3/18	Sun 18/3/18 Tue 24/4/18		
3/F	60 days	Mon 23/4/18	Thu 21/6/18		
4/F R/F	61 days 31 days	Mon 18/6/18 Sat 2/6/18	Sat 18/8/18 Mon 2/7/18		1
Window and Louver	120 days	Mon 2/7/18	Thu 22/11/18		
Glazing Works for Window Field watertighness test	12 days 7 days	Thu 15/11/18 Mon 3/12/18	Fri 30/11/18 Tue 11/12/18		
Internal Waterproofing works	120 days	Mon 9/4/18	Mon 6/8/18		
Plastering, Tiling & Laying Floor Screed Carpentry & Joinery/ Ironmongery and Door Installation	260 days 45 days	Mon 5/2/18 Mon 1/10/18	Tue 13/11/18 Fri 30/11/18		
Metal Works (Roller Shutter, railing)	45 days	Mon 3/9/18	Fri 2/11/18		1
Suspensed Ceiling and Fire Resisting Enclosure System Flooring Finishes (Carpet Tiles)	34 days 10 days	Mon 24/9/18 Tue 4/12/18	Thu 8/11/18 Mon 17/12/18		
Painting Internal painting (Final Coat)	21 days 21 days	Thu 15/11/18 Thu 15/11/18	Thu 13/12/18 Thu 13/12/18		
G/F	21 days	Thu 15/11/18	Thu 13/12/18		
UG/F 1/F	14 days 14 days	Mon 26/11/18 Mon 26/11/18	Thu 13/12/18 Thu 13/12/18		
2/F	14 days	Mon 26/11/18	Thu 13/12/18		
3/F 4/F	14 days 14 days	Mon 26/11/18 Mon 26/11/18	Thu 13/12/18 Thu 13/12/18		
R/F	14 days	Mon 26/11/18	Thu 13/12/18		
External Wall Preparation Works for tiling, painting and surtain wall installation	94 days	Sun 22/4/18	Tue 24/7/18		
External Wall Plastering Works External Wall Tiling Works	68 days	Sun 22/4/18 Fri 29/6/18	Thu 28/6/18 Thu 9/8/18		1
External painting	42 days 40 days	Fri 10/8/18	Wed 26/9/18		
ofing works Waterproofing Application	165 days 90 days	Sat 2/6/18 Sat 2/6/18	Thu 13/12/18 Thu 30/8/18		
Waterproofing Testing	60 days	Tue 17/7/18	Thu 20/9/18		
Roof tiling oofing works at 4/F Link bridge	60 days 13 days	Fri 21/9/18 Thu 22/11/18	Thu 13/12/18 Mon 10/12/18		
Waterproofing Application	4 days	Thu 22/11/18	Tue 27/11/18		1
Waterproofing Testing Roof tiling	4 days 7 days	Mon 26/11/18 Fri 30/11/18	Thu 29/11/18 Mon 10/12/18		
Sanitary fittings installation	19 days	Fri 26/10/18	Wed 21/11/18		
G/F ~ 1/F 2/F ~ 4/F	19 days 17 days	Fri 26/10/18 Tue 30/10/18	Wed 21/11/18 Wed 21/11/18		
R/F ~ UR/F	17 days	Tue 30/10/18	Wed 21/11/18		1
Submission of Aluminium window/ louvre & Curtain Wa Submission	416 days 193 days	Sat 30/9/17 Sat 30/9/17	Fri 21/12/18 Tue 10/4/18		
CW1~CW6 Shop Drg. & Calculation (re-submission) Review & Approval by P&T	1 day 16 days	Sat 30/9/17 Sun 1/10/17	Sat 30/9/17 Mon 16/10/17	3¢/9 530/9 1/10 000000 16/10	
Visual Mock-up Drg. (CW3)	16 days 1 day	Thu 19/10/17	Thu 19/10/17		
SD505 - Master Construction Task Critical		Progress	Milestone ♦	Summary	

Page 3

Remarks:

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close

Construction works at utility reserve area were affected by missed diversion of CLP cable



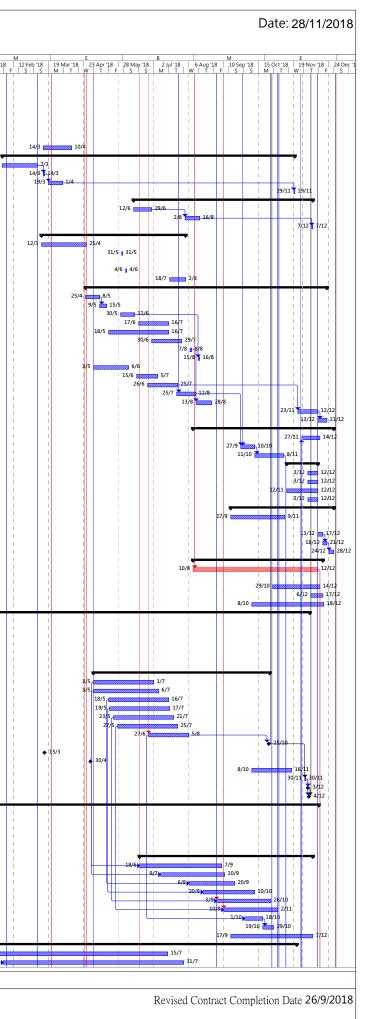
Revised Contract Completion Date 26/9/2018

ID Task Name Duration Start Finish E B M D D R	Chin	a Road and Bridge Corporation				Master Construction Programme (Rev.15) Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
	ID T	ask Name	Duration	Start	Finish	
						15 30 Nov '15 4 Jan '16 8 Feb '16 14 Mar '16 18 Apr '16 23 May '16 27 Jun '16 1 Aug '16 5 Sep '16 10 Oct '16 14 Nov '16 19 Dec '16 23 Jan '17 27 Feb '17 3 Apr '17 17 Jul '17 17 Jul '17 21 Aug '17 25 Sep '17 30 Oct '17 4 Dec '17 8 Jan '1 S M T W T F S S
	294	Review & Approval by P&T	30 days	Fri 20/10/17	Sat 18/11/17	20/10 20/10 18/11
2 Marcha 162 1000 1000 2 Marcha 162 1000 1000 2 Marcha 162 1000 1000 2 Marcha 162 1000 1000 1000 1000 2 Marcha 162 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000						
	297	Glass Sample	1 day	Fri 17/11/17	Fri 17/11/17	
		PVDF Color Guide	7 days	Sun 19/11/17	Sat 25/11/17	
		Erection of prototype	35 days	Thu 1/2/18	Wed 7/3/18	1/2
	305					
	308					
	311		144 days			
		inspection	i uay			
	316					
III Internal Discretation Internal Disc			14 days			
P Provide determinant No.00	319	Fabrication of GMS bracket/frame	14 days	Wed 30/5/18	Tue 12/6/18	
Image: Second						
	322	Glass Production	30 days	Sat 30/6/18	Sun 29/7/18	
District Distrin Distrin Distrin Di						
	325	Site Survey	35 days	Thu 3/5/18	Wed 6/6/18	
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Image: Second model considered and participation of the second model and part		Soft Landscaping - Planting works	5 days	Mon 24/12/18	Fri 28/12/18	
Image: service rest						
Image: Non-Section of Section (Section Constraint) Section (Section) Section (Section Constraint)		wall footing at Utility reserve area				
28 Below under auch experimentation 52.045 Mon 1401 10.1 1						
Image: Note of the state of the st		Builder's works for external services	52 days	Mon 8/10/18	Tue 18/12/18	
12 Data Statistics and Agroup (debts refer to software) 400 days Mon 18776 Mon 24077 12 Data Statistics for MC (Debts refer to software) Statistics for MC (Debts refer to software) Mon 24077 Mon 240777 Mon 24077			828 days	Mon 1/8/16	Tue 4/12/18	
12 Equation 14 Material subtrations Approval (bables) of 171 (b) Sec 47116 Material Sec 1716 Materia		Drawing Submission and Approval (details refer to	400 days	Mon 1/8/16	Mon 4/9/17	
no. n	353		170 days	Sun 6/11/16	Mon 24/4/17	6/11 2 24/4
135 GF Purchading instabilition 106 days: Thus 2018 Thu	254			Ed 17/0/17	Wed 22/2/17	17/3 m/22/3
107 UCP Puncting Installation 65 days The 2017B The 2017B 138 117 Punching Installation 60 days Mit 1071B Mit 1071B 139 127 Punching Installation 60 days Satt 1071B Mit 1071B 139 127 Punching Installation 60 days Satt 1071B Mit 1071B Mit 1071B 139 127 Punching Installation 60 days Satt 2017B Satt 2017B Mit 1071B	355					
138 159 Puncting installation 60 days 54 19078 Wei 1778 139 27 Puncting installation 60 days 55 19718 Wei 272618 S5 127778 130 28 Puncting installation 60 days 55 12778 Wei 272618 Wei 272618 Wei 272618 140 25 Puncting installation 60 days 55 12778 Wei 272618 Wei 272618 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
369 397 Punching Installation 40 dogs Surg 22/018 Very 22/018 Surg 22/018 Very 22/018 <th>358</th> <th>1/F Plumbing Installation</th> <th>60 days</th> <th>Fri 18/5/18</th> <th>Mon 16/7/18</th> <th></th>	358	1/F Plumbing Installation	60 days	Fri 18/5/18	Mon 16/7/18	
101 44 P Punting Installion 0.0 dyg Word 270/18 102 RF Puncing Installion 0.0 dyg Word 270/18 103 Ref Puncing Installion 0.0 dyg Word 270/18 The 2570/18 104 Statmission of Form WWO 0.06 (Part IV) 1.0 dyg The 2570/18 The 2570/18 104 Handword Of Wirel Triak Pung Recorns at UP 1.0 dyg The 2570/18 The 2570/18 105 Finance Ard Wirel Triak Pung Recorns at UP 1.0 dyg Mon 30/18 Finance 1.0 digg The 2570/18 104 Pointage Services (See ado deal programme for 0Painage Installion 0.0 dyg Mon 180/16 The 1270/18 170 Drainage Services (See ado deal programme for 0Painage Installion 0.0 dyg Mon 180/16 The 1270/18 171 Drainage Installion 0.0 dyg Mon 180/16 Sun 0730/17 Vir Calage Installion 0.0 dyg 173 Drainage Installion 0.0 dyg Mon 180/18 Fin 79/18 Mon 180/18 Fin 79/18 173 Drainage Installion 0.0 dyg Mon 180/18 Fin 79/18 Mon 180/18 Fin 79/18 173 Drainage Installion 0.0 dyg						
189 Submission of Form WWO 046 (Part M) 1 day Thu 257018 1	361	4/F Plumbing Installation	60 days	Sun 27/5/18	Wed 25/7/18	
1964 Hundover dA Water Task A Pump Rooms at UC 1 day Mon 304/18 Mon 304/18 1964 Hundover dA Water Task A Pump Rooms at UC 1 day Mon 304/18 Mon 304/18 1964 Hundover dA Water Task A Pump Rooms at UC 1 day Mon 304/18 Mon 304/18 1967 WSD Repection 1 day Mon 304/18 Fn 1301/18 Fn 1301/18 1967 WSD Repection 1 day Mon 304/18 Mon 304/18 Fn 1301/18 1970 Delander Received of Carm WUO 046 (Part V) 1 day Mon 304/18 Fn 1301/18 1970 Delander Received Torm WUO 046 (Part V) 1 day Mon 304/18 Fn 1301/18 1970 Delander Received Torm WUO 046 (Part V) 1 day Mon 304/18 Fn 1301/18 1971 Delander Received Torm WUO 046 (Part V) 1 day Mon 304/18 Fn 14/12/18 1972 Explorement of National Mon 80/18 Fn 17/12/18 Sn 50/17 Sn 50/17 1972 Explorement of Vol Mon 80/18 Fn 17/12/18 Sn 50/17 Sn 50/17 1974 Aboverground Of Hold World Not 80/18 Fn 17/12/18 Sn 50/17 Sn 50/17 Sn 50/17 Sn 50/17 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
196 Testing & Commissioning 30 days Mon 87078 Fri John 118 367 WSD Breedon 1 day Mon 37278 Mon 37278 Mon 37278 368 Anticipated Receipt of form WWO 04 (Part V) 1 day Mon 37278 Mon 37278 369 Oblain Web Certificat 1 day Mon 37278 Mon 37278 370 Darlange Storkets (se also detail programme for submission schedule) 1 day Mon 18/16 Thu 137278 371 Dealwage Storkets (se also detail programme for submission schedule) 1 day Mon 18/16 Fin 377178 372 Dealwage Installation 1 day days Mon 18/16 Fin 77278 373 Aboveground GF to UR Dranage Installation 1 day days Mon 18/178 Fin 772788 374 GF Dranage Installation 0 days Mon 79718 Mon 19978 Fin 37778 375 Moveground GF to UR Dranage Installation 0 days Mon 79718 Mon 19978 Fin 277788 375 Moveground GF to UR Dranage Installation 0 days Mon 79718 Mon 19978 Fin 277788 375 Moveground GF to UR Dranage Installation 0 days Mon 79718	364	Handover of All Water Tank & Pump Rooms at UG	1 day	Thu 15/3/18	Thu 15/3/18	
197 WSD inspection 1 day FF 13011/18 Ff 13011/18 Ff 13011/18 Mon 321718 369 Anticipated Receipt of Tom WWD 046 (Part V) 1 day Tue 4/12/18 Mue 12/18						
1990 Oblain Viane Certificate 1 day Tue 41/218 1 day <		WSD Inspection	1 day	Fri 30/11/18	Fri 30/11/18	
120 Drainage Services (see also detail programme for Drainage trade) 835 days Mon 1/8/16 Thu 13/12/18 127 Draving Submission and Approval (details refer to submission schedule) 120 days Mon 1/8/16 Mon 28/11/16 127 Equipment & Material submission Approval (details refer to submission schedule) 120 days Sun 6/11/16 Sun 5/3/17 127 Experiment & Material submission schedule) 145 days Mon 188/18 Fri 7/12/18 128 GF Drainage Installation 60 days Mon 9/718 Mon 198/16 Fri 7/12/18 127 Aboreground GF to UR Drainage Installation 40 days Mon 198/16 Fri 7/12/18 127 UF Drainage Installation 40 days Mon 39/18 Thu 12/17/18 128 UF Drainage Installation 40 days Mon 39/18 Thu 20/718 129 UF Drainage Installation 40 days Mon 39/18 Thu 12/17/18 129 UF Drainage Installation 40 days Mon 39/18 Thu 12/17/18 129 UF Drainage Installation 40 days Mon 39/18 Thu 12/17/18 129 UF Drainage Installation 40 days Mon 39/18 Thu 12/1						
172 Drawing Submission and Approval (details refer to submission schedule) 120 days Mon 18/1.6 Mon 28/11/6 172 Equipment 8. Material submission and Approval (details refer to to submission schedule) 120 days Sun 6/11/1.6 Sun 5/3/17 173 Decoder general 8. Mon 18/1.8 Fri 7/12/18 5/3 6/11/1 5/3 173 G/F Drainage Installation 80 days Mon 18/1.8 Fri 7/12/18 5/3 174 Aboveground G/F to UR Drainage Installation 80 days Mon 18/1.8 Fri 7/12/18 174 G/F Drainage Installation 60 days Mon 18/1.8 Fri 7/12/18 175 UC Drainage Installation 40 days Mon 20/8/18 Thu 20/9/18 177 2/F Drainage Installation 40 days Mon 20/8/18 Thu 20/9/18 177 2/F Drainage Installation 40 days Mon 20/9/18 Thu 20/9/18 178 3/F Drainage Installation 40 days Mon 20/9/18 Thu 20/9/18 189 UR Drainage Installation 40 days Mon 20/9/18 Hou 20/9/18 189 Underground Drainage 5/0 days Sun 15/7/18 Hou 20/9/17		Drainage Services (see also detail programme for				
submission schedule) Submission schedule) Submission schedule) 372 Ergünnent Material submission Approval (detalis refer 120 days 373 Aboveground (detalis refer 120 days 374 Gr.F Drainage Installation 145 days 375 UG Drainage Installation 60 days 376 UG Drainage Installation 40 days 377 UF Drainage Installation 40 days 378 UF Drainage Installation 40 days 379 4/F Drainage Installation 40 days 378 UF Drainage Installation 40 days 379 4/F Drainage Installation 40 days 378 UF Drainage Installation 40 days 379 4/F Drainage Installation 40 days 381 UR Drainage Installation 71/10/18 382 Testing & Commissioning 60 days 383 Underground Drainage 50 days 384 Inside Building Installation 194 days 384 Inside Building Installation 194 days 384 Insid			120 davs	Mon 1/8/16	Mon 28/11/16	
Io submission schedule) Io 373 Aboveground G/F to UR Drainage Installation 145 days Mon 18/6/18 Fri 7/12/18 374 G/F Drainage Installation 80 days Mon 18/6/18 Fri 7/12/18 Io 375 U/G Drainage Installation 60 days Mon 19/018 Fri 7/12/18 Io 375 U/G Drainage Installation 40 days Mon 20/018 Wet 10/10/18 Fri 22/10/18 376 1/F Drainage Installation 40 days Mon 20/018 Wet 10/10/18 Fri 22/10/18 377 2/F Drainage Installation 40 days Mon 10/018 Fri 22/10/18 Io Io 378 3/F Drainage Installation 40 days Mon 10/018 Fri 22/11/18 Io Io 380 R/F Drainage Installation 14 days Mon 11/018 Thu 18/1018 Io Io Io 383 Underground Drainage 540 days Sun 15/718 Io Io <td>272</td> <td>submission schedule)</td> <td></td> <td></td> <td></td> <td></td>	272	submission schedule)				
373 Aboveground G/F to UR Drainage Installation 145 days Mon 18/c/18 Fri 7/12/18 374 G/F Drainage Installation 80 days Mon 18/c/18 Fri 7/17.18 375 U.C Drainage Installation 60 days Mon 20/07.18 Mon 18/c/18 Fri 20/17.18 376 1/F Drainage Installation 40 days Mon 20/07.18 Mon 20/07.18 Mon 20/07.18 377 2/F Drainage Installation 40 days Mon 20/07.18 Wed 10/107.8 He days 378 3/F Drainage Installation 40 days Mon 20/07.18 Wed 10/107.8 He days 378 3/F Drainage Installation 40 days Mon 10/07.18 Fri 25/107.8 He days Mon 10/07.18 378 3/F Drainage Installation 40 days Mon 10/07.18 Fri 25/107.18 He days Mon 20/107.18 380 A/F Drainage Installation 7 days Fri 19/107.18 Mon 20/107.18 He days Mon 20/107.18 381 UR Drainage Installation 7 days Sun 15/7.17 Wed 37/17.18 He days Wed 37/17.18 384 Inside Building Installation 19/4 days Wed 37/17.18 <t< td=""><td></td><td>to submission schedule)</td><td>120 days</td><td>Sun 6/11/16</td><td></td><td></td></t<>		to submission schedule)	120 days	Sun 6/11/16		
375 UG Drainage Installation 60 days Mon 97/18 Mon 10/918 376 1/F Drainage Installation 40 days Mon 20/918 The 20/978 377 2/F Drainage Installation 40 days Mon 20/918 The 20/978 378 3/F Drainage Installation 40 days Mon 30/918 Fri 26/1018 378 3/F Drainage Installation 40 days Mon 10/918 Fri 26/1018 379 4/F Drainage Installation 40 days Mon 10/918 Fri 26/1018 379 4/F Drainage Installation 40 days Mon 10/918 Fri 26/1018 380 R/F Drainage Installation 14 days Mon 11/918 Mon 29/1018 381 UR Drainage Installation 7 days Fri 19/1018 Mon 29/1018 382 Testing & Commissioning 60 days Mon 17/918 Fri 71/218 384 Inside Building Drainage 540 days Sun 15/1718 Fri 20/1178 385 Inside Building Drain Test 180 days Fri 20/118 Testing & Commissioning 395 Inside Building Drain Test 180 days Fri 20/118 Testing & Commissioning		Aboveground G/F to UR Drainage Installation				
376 1/F Drainage Installation 40 days Mon 6/8/18 Thu 20/9/18 377 2/F Drainage Installation 40 days Mon 20/9/18 Wed 10/10/18 378 3/F Drainage Installation 40 days Mon 10/9/18 Fri 2/11/18 379 4/F Drainage Installation 40 days Mon 10/9/18 Fri 2/11/18 380 R/F Drainage Installation 14 days Mon 11/0/18 Thu 18/10/18 381 UR prainage Installation 7 days Fri 19/10/18 Mon 29/10/18 382 Testing & Commissioning 60 days Mon 11/9/18 Fri 17/12/18 383 Underground Drainage 540 days Sun 15/7/18 Sun 15/7/18 384 Inside Building Installation 194 days Wed 31/1/18 Sun 15/7/18 385 Inside Building Installation 194 days Frid 2/11/18 The 20/17/18 385 Inside Building Installation 194 days Frid 2/17/18 The 20/17/18 385 Inside Building In Test 180 days Frid 2/17/18 The 20/17/18	375					
378 3/F Drainage Installation 40 days Mon 3/9/18 Fri 26/10/18 379 4/F Drainage Installation 40 days Mon 10/9/18 Fri 2/11/18 380 R/F Drainage Installation 14 days Mon 11/0/18 Thu 18/10/18 381 UR Drainage Installation 7 days Fri 19/10/18 Mon 29/10/18 381 UR Drainage Installation 7 days Fri 19/10/18 Mon 29/10/18 382 Testing & Commissionling 60 days Mon 17/9/18 Fri 7/12/18 383 Underground Drainage 540 days Word 37/18 Fri 7/18 384 Inside Building Installation 194 days Word 37/18 Sun 15/7/18 385 Inside Building Installation 194 days Word 37/18 Tus 37/18 385 Inside Building Installation 194 days Word 37/18 Tus 37/18 385 Inside Building Drain Test 180 days Fri 22/11/18 Tus 37/18 385 Inside Regression Summer Summer Summer		1/F Drainage Installation	40 days	Mon 6/8/18	Thu 20/9/18	
379 4/F Drainage Installation 40 days Mon 10/9/18 Fri 2/11/18 380 R/F Drainage Installation 14 days Mon 10/0/18 Thu 18/10/18 381 UR brainage Installation 7 days Fri 2/11/18 Mon 29/10/18 382 Testing & Commissioning 60 days Mon 17/9/18 Fri 7/12/18 383 Underground Drainage 540 days Sun 15/7/17 Wed 21/11/18 384 Inside Building Installation 194 days Wed 21/18 Sun 15/7/18 384 Inside Building Installation 194 days Fri 2/2/18 Jaramage 385 Inside Building Installation 194 days Fri 2/2/18 Tue 37/18 385 Inside Building Installation 194 days Fri 2/2/18 Tue 37/18 Protext \$25056- Mater Construint Tue 201/17/18 Tue 37/18 Tue 37/178	378					
381 UR Drainage Installation 7 days Fri 19/10/18 Mon 29/10/18 382 Testing & Commissioning 60 days Mon 17/9/18 Fri 17/12/18 383 Underground Drainage 540 days Sun 7/5/17 Wed 21/11/18 384 Inside Building Installation 194 days Wed 31/1/18 Sun 15/7/18 385 Inside Building Drain Test 180 days Fri 2/2/18 Tu 31/7/18		4/F Drainage Installation	40 days	Mon 10/9/18	Fri 2/11/18	
382 Testing & Commissioning 60 days Mon 17/9/18 Fri 7/12/18 383 Underground Drainage 540 days Sun 7/5/17 Wed 21/11/18 384 Inside Building Installation 194 days Wed 21/17/18 Sun 15/7/18 385 Inside Building Drain Test 180 days Fri 2/2/18 Tue 31/7/18	381					
384 Inside Building Installation 194 days Wed 3/1/18 Sun 15/7/18 385 Inside Building Drain Test 180 days Fri 2/2/18 Tue 31/7/18		Testing & Commissioning	60 days	Mon 17/9/18	Fri 7/12/18	
385 Inside Building Drain Test 180 days Fri 2/2/18 Tue 31/7/18 Project: SSD505-Master Construction Tark Recorrect Millortone Summary	384					3/1
Project: SSD5/05 - Master Construction Date: Wed 28/11/18 Critical Path Construction Progress Milestone I Summary	385					
	Project: S Date: Wer	SD505 - Master Construction Task Critical	Path	Progress -	Miles	tone I Summary

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Remarks:

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close

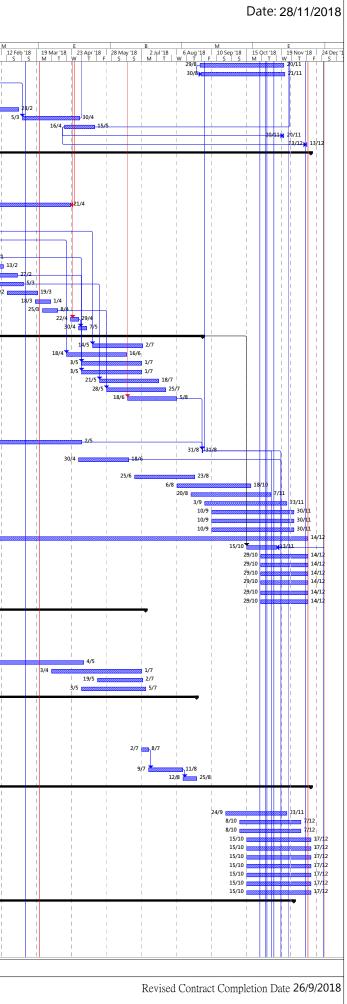


Chi	na Road and Bridge Corporation					Popr	ovisioning c		Sai Voo				-	ramme (F			Nonot a	t Von Mir	ng Pood		E)	
ID	Task Name	Duration	Start	Finish	E	•	R	м	F		В	у <u>с</u>		F		в	•	м	, F	-	В	M
386	Outside Building Installation (within site boundary)	60 days	Wed 29/8/18	Tue 20/11/18	S M T	W T F S	16 14 Mar '16 18 Ap S M T W T	F S S	27 Jun 16 M T	W T F S	S M T	W T F	S S M	3 Jan 17 27 Feb 17 T W T 1	F S S	May 1	W T	F S S N	1 Aug 17 25 Sep 1 T W T	F S S	4 Dec '17 M T	8 Jan '18 : W T F
387 388	Outside Building Drain Test (within site boundary) Excavation Permit Application	60 days 80 days	Thu 30/8/18 Mon 10/7/17	Wed 21/11/18 Wed 27/9/17				I.	l l				1	I		i l	10/7		27/9		1	
389	Preparation of Form HBP1	1 day	Sun 7/5/17	Sun 7/5/17				I.	l I				1	I		5 7/5	28/5		1	i i		
390 391	Submission of Form HBP1 Construction of Terminal Manholes	21 days 120 days	Mon 8/5/17 Wed 1/11/17	Sun 28/5/17 Wed 28/2/18	l l			I.	1		I I		1	I	0/	י <mark>ושמער ביי בי</mark> ו ר	20/3		1	1/11	-	
392 393	Final Connection to Government Manhole Final Drainage Submission	57 days 30 days	Mon 5/3/18 Mon 16/4/18	Mon 30/4/18 Tue 15/5/18									1	I I			I.		1			
394	DSD Inspection	1 day	Tue 20/11/18	Tue 20/11/18	1			1	1		1		1	1	1	1	l.		1			
395 396	DSD Re-Inspection Electrical installations (see also detail programme for	1 day 1019 days	Thu 13/12/18 Mon 1/2/16	Thu 13/12/18 Mon 17/12/18		¦ <u></u>									1	1	1		1		1	++
397	EL trade) Drawing Submisssion and Approval (details refer to	300 days	Sat 2/7/16	Thu 27/4/17				2	/7	I I	I	i i	I	I	1	27/4						
	submission schedule)					i i			/7	1	l	1 1	i	Ì	1	27/4	i i		1			i i
398	Equipment & Material Submisssion and Approval (details refer to submission schedule)	300 days	Sat 2/7/16	Thu 27/4/17				1 2		1 1			1	1	!							
399 400	Conceal conduit & Builder work for Electrical / ELV Syste G/F (G.L.1-5/A-K)	190 days 45 days	Sat 14/10/17 Sun 8/10/17	Sat 21/4/18 Tue 21/11/17					1		1		į			1	1		8/10	21	/11	+
401	G/F (G.L.5-9/A-K)	45 days	Sun 15/10/17	Tue 28/11/17				I.	1				1		1	i i	I.		15/10 22/10		28/11	
402 403	UG/F (G.L.1-5/A-K) UG/F (G.L.5-9/A-K)	45 days 45 days	Sun 22/10/17 Sun 29/10/17	Tue 5/12/17 Tue 12/12/17				I.	1		I		1	I	1		l I			9/10	12/12	++
404 405	1/F (G.L.1-5/A-K) 1/F (G.L.5-9/A-K)	45 days	Sun 26/11/17	Tue 9/1/18 Tue 30/1/18	1				1		1		1	1	1	1			1	26/11	17/12	9/1
406	2/F (G.L.1-5/A-K)	45 days 45 days	Sun 17/12/17 Sun 31/12/17	Tue 13/2/18	I			1	1		1		1	1	1	1			1		31/12	4/1
407 408	2/F (G.L.5-9/A-K) 3/F (G.L.1-5/A-K)	45 days 30 days	Sun 14/1/18 Sun 4/2/18	Tue 27/2/18 Mon 5/3/18	i	i i		1	i.	i i	Ì	i i	į	1	i	i l	i.		i i		14,	/1 4/2
409	3/F (G.L.5-9/A-K)	30 days	Sun 18/2/18	Mon 19/3/18					1						1							18/2
411	4/F (G.L.1-5/A-K) 4/F (G.L.5-9/A-K)	15 days 15 days	Sun 18/3/18 Sun 25/3/18	Sun 1/4/18 Sun 8/4/18									1									
412 413	R/F (G.L.1-5/A-K) R/F (G.L.5-9/A-K)	8 days 8 days	Sun 22/4/18 Mon 30/4/18	Sun 29/4/18 Mon 7/5/18	l l			I I	l. I		I I			I I	1		l I			l I		
414	G/F to R/F Electrical Installation - First fixing	318 days	Wed 18/10/17	Fri 31/8/18	l l			I I	1		l l		1	I I	1		l I		•	V	1	
415 416	G/F Electrical installation UG Electrical installation	50 days 60 days	Mon 14/5/18 Wed 18/4/18	Mon 2/7/18 Sat 16/6/18	1				1		1		1	I I	1		I.			I.		
417 418	1/F Electrical Installation	60 days	Thu 3/5/18	Sun 1/7/18				I.	1				1	I	1							
419	2/F Electrical Installation 3/F Electrical Installation	60 days 59 days	Thu 3/5/18 Mon 21/5/18	Sun 1/7/18 Wed 18/7/18				i i	1		i i			1	1							
420 421	4/F Electrical Installation R/F Electrical Installation	59 days 49 days	Mon 28/5/18 Mon 18/6/18	Wed 25/7/18 Sun 5/8/18	1				1		1		i.		1							
422	Completion of CLP G/F Tx. Room	1 day	Wed 18/10/17	Wed 18/10/17									1	I	1	i i	l I			18/10	1	
423	Installation Work of E&M Services & builder's works inside Tx. Room	59 days	Thu 19/10/17	Sat 16/12/17				I.	1		I		1	I	1		l I		19/10		16/12	
424 425	Handover G/F Tx. Room for CLP Installation Work CLP Installation Work in Tx. Room	17 days 120 days	Sun 17/12/17 Wed 3/1/18	Tue 2/1/18 Wed 2/5/18	1				1		1		1	1	1	1	l I		1		17/12 3/1	
426	CLP Inspection & Power Energisation	1 day	Fri 31/8/18	Fri 31/8/18	1			1	1		1		1	1	1		l I		1			
427	Electrical final fix (Lighting Fittings / Wiring Accessories / ELV Accessories)	50 days	Mon 30/4/18	Mon 18/6/18				i I	i I				i	i I	i I				1			
428 429	G/F	60 days	Mon 25/6/18	Thu 23/8/18		i i							į									
430	UG/F 1/F	60 days 60 days	Mon 6/8/18 Mon 20/8/18	Thu 18/10/18 Wed 7/11/18				1	1				i.	1								
431 432	2/F 3/F	60 days 60 days	Mon 3/9/18 Mon 10/9/18	Fri 23/11/18 Fri 30/11/18				I.					1	I	1	i I	l.		1		1	
433 434	4/F	60 days	Mon 10/9/18	Fri 30/11/18	l			I.	1		1		1	I	1	I I	I I		1		1	
434	R/F Earthing & Lightning System	60 days 280 days	Mon 10/9/18 Thu 8/2/18	Fri 30/11/18 Fri 14/12/18	1			I.	1		1		1	I I	1	1	l I		1	1	1	8/2
436 437	Testing & Commissioning (Electrical Installation) T&C for Earthing & Lightning System	22 days 35 days	Mon 15/10/18 Mon 29/10/18	Tue 13/11/18 Fri 14/12/18					1		1		1	1	1		l.		1			1 1
438	T&C for Megger Test of Power Cable & Wiring	35 days	Mon 29/10/18	Fri 14/12/18	I			1	1				1	1	1				1			
439 440	T&C for Distribution Board T&C for Power Management System	35 days 35 days	Mon 29/10/18 Mon 29/10/18	Fri 14/12/18 Fri 14/12/18	i i	i i			i I		1	1 1	i i	1	1	1					1	
441 442	T&C for Lighting Fitting & Small Power	35 days	Mon 29/10/18	Fri 14/12/18	i i	i i			i.	1		i i	į.		i				1			i i
443	T&C for PV System LVSB. System	35 days 812 days	Mon 29/10/18 Fri 15/4/16	Fri 14/12/18 Thu 5/7/18																		<u> </u>
444	Drawing Submisssion and Approval of LVSB (details refer to submission schedule)	111 days	Fri 13/5/16	Wed 31/8/16			13/	5		31/8					1	1			1		- -	
445	Equipment & Material Submisssion and Approval of	92 days	Fri 15/4/16	Fri 15/7/16	I I		15/4		15/7	7	I I		1	1	1	I I	l I		1		1	
446	LVSB (details refer to submission schedule) Handover LV Switch Room for Elect / LV Sw.Bd.	31 days	Tue 5/12/17	Thu 4/1/18	1			I.	1		I I		1	I I	1					5/12		4/1
447 448	E&M Work inside LV Switch Room LV Cubicle Switchboard Installation	120 days 90 days	Fri 5/1/18 Tue 3/4/18	Fri 4/5/18 Sun 1/7/18	1			I.	1		1		1	I.	1					l I	5/1	
449	Site Test for LV Switchboard	45 days	Sat 19/5/18	Mon 2/7/18				I I	1		1			I I	1		I.					
451	Handover 1/F-4/F Sub-S.W. Rm. For Electrical Work Generator	64 days 937 days	Thu 3/5/18 Mon 1/2/16	Thu 5/7/18 Sat 25/8/18		-										+					1	+
452	Drawing Submisssion and Approval of Generator (details refer to submission schedule)	140 days	Thu 14/4/16	Wed 31/8/16	1		14/4		-	31/8	i I			i i	1		i i					
453	Equipment & Material Submisssion and Approval of	151 days	Mon 1/2/16	Thu 30/6/16		1/2			30/6						1							
454	Generator (details refer to submission schedule) Submission Application for EPD (Generator Set System	62 days	Mon 22/8/16	Sat 22/10/16					1	22/8	22/10											
455	Handover 3/F & R/F Generator Room for	7 days	Mon 2/7/18	Sun 8/7/18				I I							1							
456	Installation Work Diesel Generator Installation	34 days	Mon 9/7/18	Sat 11/8/18	l l			I I	1		l I		1	I I	1					I I		
457 458	Site Test for Diesel Generator Installation	14 days	Sun 12/8/18	Sat 25/8/18				I.	1		1	 		1		1		1	!		1	
458	ELV. System Drawing Submisssion and Approval of ELV (details	702 days 49 days	Wed 14/12/16 Wed 14/12/16	Mon 17/12/18 Tue 31/1/17				I.	1		1	14/12		31/1								
460	refer to submission schedule) Broadcast Reception Installation	45 days	Mon 24/9/18	Fri 23/11/18	-				 				1		1	i						
461 462	Burglar Alarm and Security Installation	45 days	Mon 8/10/18	Fri 7/12/18				1	-													
463	Audio Electronic Installation T&C for CABD System	45 days 46 days	Mon 8/10/18 Mon 15/10/18	Fri 7/12/18 Mon 17/12/18					1													
464 465	T&C for CCTV System T&C for PA System	46 days 46 days	Mon 15/10/18 Mon 15/10/18	Mon 17/12/18 Mon 17/12/18	I I			I I	l I		I I			I I	1		l I			I I		
466	T&C for Watchman Tour System	46 days	Mon 15/10/18	Mon 17/12/18				I.	1					I I	1		I.					
467 468	T&C for Smart Card System T&C for Induction Loop	46 days 46 days	Mon 15/10/18 Mon 15/10/18	Mon 17/12/18 Mon 17/12/18					1		1			I I	1		l.					
469 470	T&C for energy management system	46 days	Mon 15/10/18	Mon 17/12/18	1	· ·				i i	1	i i	1	1	1	1		i i			1	1
	installations (see also detail programme for MVAC	1004 days	Fri 5/2/16	Fri 30/11/18									l									
471	trade) Drawing Submisssion and Approval (details refer to	240 days	Sat 14/1/17	Sun 10/9/17									14/1						10/9		1	
472	submission schedule) Equipment & Material Submisssion and Approval (details		Fri 5/2/16	Sat 1/10/16		5/2		 			1/10				1							
	refer to submission schedule)	240 days	111 312110	531 110/10				1							1							
Project: Date: W	SSD505 - Master Construction Task Critical	Path	Progress	Milesto	one 🔶	Summary																
-	arks:	-	-		-				-				00 5									

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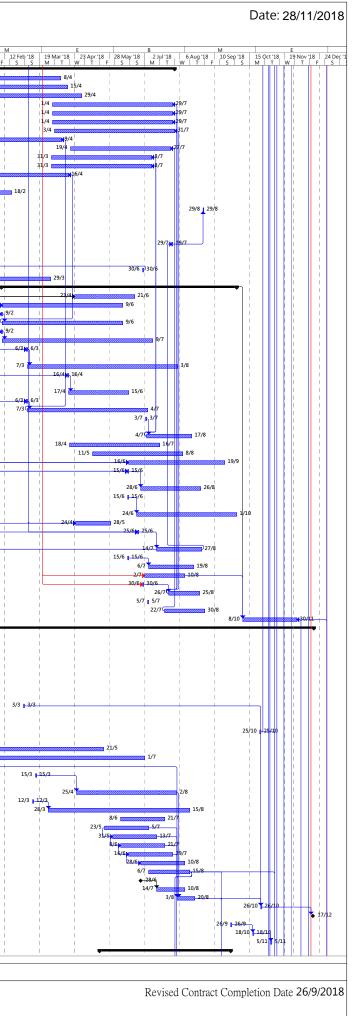
Remarks:

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close



	a Road and Bridge Corporation				Master Construction Programme (Rev.15) Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum-vehicle Depot at Yen Ming Road (SSD505)
т	'ask Name	Duration	Start	Finish	E B M E B M
73	Major MVAC Material Delivery	234 days	Sun 10/12/17	Tue 31/7/18	
75	Cooling Tower Water Cooled Chiller	120 days 120 days	Sun 10/12/17 Sun 17/12/17	Sun 8/4/18 Sun 15/4/18	1/1/2 and $1/1/2$ and $1/1/$
76	Water Scrubber	120 days	Sun 31/12/17 Sun 1/4/18	Sun 29/4/18	31/1
78	Heat Pump Unit Heat Transfer Compact Unit	120 days 120 days	Sun 1/4/18	Sun 29/7/18 Sun 29/7/18	
79 30	Water Calorifier	120 days	Sun 1/4/18	Sun 29/7/18	
30	Water Pump MCC	120 days 100 days	Tue 3/4/18 Sun 31/12/17	Tue 31/7/18 Mon 9/4/18	31/1
32 33	Flat Plat type Solar Collector	100 days	Thu 19/4/18	Fri 27/7/18	
83	Vehicle Exhaust Extraction System Welding Exhaust System	100 days 100 days	Sat 31/3/18 Sat 31/3/18	Sun 8/7/18 Sun 8/7/18	
85	Automatic Condenser Tube Cleaning System	100 days	Sun 7/1/18	Mon 16/4/18	
86 87	Submission & Approval of AC Layout(Initial) by WSD Submission/Application of form WWO 046(Part I & II) for	22 days 75 days	Tue 14/11/17 Wed 6/12/17	Wed 6/12/17 Sun 18/2/18	
	Cooling Tower Installation				
88	Submission of form WWO 046(Part IV) for Cooling Tower Installation	1 day	Wed 29/8/18	Wed 29/8/18	
89	Submission of CT1B & CT4 to EMSD for Cooling Tower	1 day	Sun 19/11/17	Sun 19/11/17	19/11/10 19/11
90	Installation Submission of CT2B to EMSD for Cooling Tower	1 day	Sun 29/7/18	Sun 29/7/18	
	Installation	ruay		Juli 2 // // 10	
91 92	Submission of VAC Drawing(Initial) to FSD Final Submission of VAC form 501 for MVAC Installation	47 days 1 day	Mon 31/7/17 Sat 30/6/18	Fri 15/9/17 Sat 30/6/18	
93	Conceal Conduit & Builder Work for MVAC	180 days	Sal 30/6/18 Sun 1/10/17	Thu 29/3/18	
94	G/F to R/F MVAC Installation	225 days	Fri 9/2/18	Mon 1/10/18	
95	G/F MVAC Installation UG/F MVAC Installation	60 days 120 days	Mon 23/4/18 Sat 10/2/18	Thu 21/6/18 Sat 9/6/18	
97	Handover of UG/F Chiller Plant for MVAC Installation	1 day	Fri 9/2/18	Fri 9/2/18	
98	- UG/F MVAC Installation in Chiller Plant Handover of UG/F AHU Rm for MVAC Installation	120 days	Sat 10/2/18 Fri 0/2/18	Sat 9/6/18 Fri 9/2/18	1 1
00	- UG/F MVAC Installation in AHU Rm	1 day 150 days	Fri 9/2/18 Sat 10/2/18	Fri 9/2/18 Mon 9/7/18	
01	Handover of UG/F Water Pump Rm. for MVAC	1 day	Tue 6/3/18	Tue 6/3/18	
)2	- UG/F MVAC Installation in Water Pump Rm.	150 days	Wed 7/3/18	Fri 3/8/18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
13	Handover of UG/F Exhaust Air Fan Rm. for MVAC	1 day	Mon 16/4/18	Mon 16/4/18	
)4	- UG/F MVAC Installation in Exhaust Air Fan Rm.	60 days	Tue 17/4/18	Fri 15/6/18	
)5	Handover of UG/F MCC Rm. for MVAC Installation	1 day	Tue 6/3/18	Tue 6/3/18	
)6)7	- UG/F MVAC Installation in MCC Rm.	120 days	Wed 7/3/18	Wed 4/7/18	
	Handover of G/F Vehicle Washing Bay for MVAC Installation	1 day	Tue 3/7/18	Tue 3/7/18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	- G/F MVAC Installation in Vehicle Washing Bay	45 days	Wed 4/7/18	Fri 17/8/18	
09 LO	1/F MVAC Installation 2/F MVAC Installation	90 days 90 days	Wed 18/4/18 Fri 11/5/18	Mon 16/7/18 Wed 8/8/18	1 1
1	3/F MVAC Installation	90 days	Sat 16/6/18	Wed 19/9/18	
.2	Handover of 3/F PAU Rm (West Wing) for MVAC Installation	1 day	Fri 15/6/18	Fri 15/6/18	
13	- 3/F MVAC Installation in PAU Rm (West Wing)	60 days	Thu 28/6/18	Sun 26/8/18	1 1
14	Handover of 3/F PAU Rm (East Wing) for MVAC	1 day	Fri 15/6/18	Fri 15/6/18	
15	Installation - 3/F MVAC Installation in PAU Rm (East Wing)	90 days	Sun 24/6/18	Mon 1/10/18	
L6 17	4/F MVAC Installation	35 days	Tue 24/4/18	Mon 28/5/18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
"	Handover of 4/F Cooling Tower Plant for MVAC Installation	1 day	Mon 25/6/18	Mon 25/6/18	
18	- 4/F MVAC Installation in Cooling Tower Plant	45 days	Sat 14/7/18	Mon 27/8/18	
19 20	Handover of PAU Rm (West Wing) for MVAC Installatio - 4/F MVAC Installation in PAU Rm (West Wing)	1 day 45 days	Fri 15/6/18 Fri 6/7/18	Fri 15/6/18 Sun 19/8/18	
21	R/F MVAC Installation	40 days	Mon 2/7/18	Fri 10/8/18	
22	Handover of R/F Heat Pump Plant for MVAC Installatio - R/F MVAC Installation in Heat Pump Plant	1 day 31 days	Sat 30/6/18 Thu 26/7/18	Sat 30/6/18 Sat 25/8/18	
24	Handover of Flat Roof for MVAC Installation	1 day	Thu 5/7/18	Thu 5/7/18	
25 26	- R/F MVAC Installation in Flat Roof	40 days	Sun 22/7/18	Thu 30/8/18	
_	Testing & Commissioning (MVAC) Fire services installations (see also detail programme	40 days 833 days	Mon 8/10/18 Fri 5/8/16	Fri 30/11/18 Mon 17/12/18	
1	for FS trade)				
8	Drawing Submisssion and Approval (details refer to submission schedule)	180 days	Sat 25/2/17	Wed 23/8/17	
29	Equipment & Material Submisssion and Approval (details	180 days	Sun 25/9/16	Thu 23/3/17	25/9
30	refer to submission schedule) Approval of GBP(Initial) by FSD & WSD	21 days	Fri 5/8/16	Thu 25/8/16	5/8 25/8
31	Submission/Application of form WWO 046(Part I & II) for	76 days	Sun 20/8/17	Sat 4/11/17	20/8
32	F.S. Installation Submission of form WWO 046(Part IV) for F.S. Installatio	1 day	Sat 3/3/18	Sat 3/3/18	1 1
3	Submission of Drawing for D.G. Liscence to FSD for	60 days	Mon 17/10/16	Thu 15/12/16	17/10 15/12
4	Approval Final Submission of Form314(Layout) & Form501(FS		Thu 25/10/18	Thu 25/10/18	
	related) to FSD	1 day		110 23/10/18	
85 86	Concealed Conduit & Builder Work for FS.	199 days	Sat 4/11/17	Mon 21/5/18	
7	G/F to R/F F.S. Installation - First fixing Application of Direct Telephone Link	210 days 1 day	Mon 4/12/17 Sat 4/11/17	Sun 1/7/18 Sat 4/11/17	
88	Handover of G/F F.S. Transfer Pump Rm. for F.S.	1 day	Thu 15/3/18	Thu 15/3/18	
39	Installation F.S. Installation in F.S. Transfer Pump Rm.	100 days	Wed 25/4/18	Thu 2/8/18	
10	Handover of G/F F.S. Control Rm. for F.S. Installation	1 day	Mon 12/3/18	Mon 12/3/18	1 1
1	F.S. control panel Installation in F.S. control Rm. G/F FS Installation	141 days 44 days	Wed 28/3/18 Fri 8/6/18	Wed 15/8/18 Sat 21/7/18	
3	UG/F FS Installation	44 days	Wed 23/5/18	Thu 5/7/18	
1 5	1/F FS Installation 2/F FS Installation	44 days 44 days	Thu 31/5/18 Fri 8/6/18	Fri 13/7/18 Sat 21/7/18	
6	3/F FS Installation	44 days 44 days	Sat 16/6/18	Sat 21/7/18 Sun 29/7/18	
7	4/F FS Installation	44 days	Thu 28/6/18	Fri 10/8/18	x x
8	R/F FS Installation Handover of SPR. & F.S. Pump Rm. for F.S. Installation	41 days 0 days	Fri 6/7/18 Thu 28/6/18	Wed 15/8/18 Thu 28/6/18	
0	F.S. Installation in SPR. & F.S. Pump Rm.	28 days	Sat 14/7/18	Fri 10/8/18	
1	F.S. Final fixing	18 days	Fri 3/8/18	Mon 20/8/18	1 1
3	Water Authority inspections for FS Installation Obtain Water Certificate	1 day 1 day	Fri 26/10/18 Mon 17/12/18	Fri 26/10/18 Mon 17/12/18	
54	FS inspection for DG Stores (1st)	1 day	Wed 26/9/18	Wed 26/9/18	1 1
55 56	FS inspection for DG Stores (2nd) Obtained DG. Licence	1 day 1 day	Thu 18/10/18 Mon 5/11/18	Thu 18/10/18 Mon 5/11/18	
57	Testing & Commissioning (FS)	123 days	Fri 18/5/18	Tue 25/9/18	

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close



Ch	ina Road and Bridge Corporation				F	Reprovisi	ionina o	of FFHD	Sai Yee				ruction l al Hygie	•	-		•	pot at	Yen M	1ina Ra	ad (SSD	505)		
ID	Task Name	Duration	Start	Finish	F	B	-	м	F		B		м		F	1	В		л	- F		В		М
				1'1	L5 30 Nov '15 4 Jan '16 S M T W T F	8 Feb '16 14 S S M	Mar'16 18 Apr T W T	r'16 23 May'1 F S 1	.6 27 Jun '16 S M T	1 Aug '16 W T F	5 Sep '16 S S I	10 Oct '16 14 M T W	4 Nov '16 19 Dec T F S	:'16 23 Jan' S M 1	17 27 Feb '17 ' W T	3 Apr'17 F S S	8 May '17 M T	12 Jun '17 W T F	17 Jul '17 S S	21 Aug '17 M T N	25 Sep '17 30 (V T F S	Oct '17 4 Dec '1' S M T	.7 8 Jan '18 W T	1 F
558		40 days	Tue 7/8/18	Fri 21/9/18												1	1	1						1
559		40 days	Tue 7/8/18	Fri 21/9/18		· ·		i i	i i	1 1		i i		1	1			1	1		i i			÷
560		40 days	Tue 7/8/18	Fri 21/9/18	i i	i i	i	i	i.	i i	i.	i i	i i	i	i	i	i -	i i	i i	i i	i i	i i	i	i.
561 562	20	40 days	Tue 7/8/18	Fri 21/9/18	1 I	I I	1	I.	L	1 1	1	I.	1	1	1	1	1	I	I.		I.	1	1	1
563		40 days	Tue 7/8/18	Fri 21/9/18				1	1			1		1	1	1		-	1		-			
564		40 days	Tue 7/8/18 Tue 7/8/18	Fri 21/9/18 Fri 21/9/18		I I		i i	i.	1 1		i.			1			1	1	I I	i i		1	÷
565		40 days 30 days	Fri 18/5/18	Sat 16/6/18	i i	i i	i	i i	i.	i i	i.	i	i i	i	i	i	i -	i i	I	i i	i i	i i	i	i.
566		40 days	Tue 7/8/18	Fri 21/9/18	1 I I	L L	1	I.	L	1 1	1	1	1	1	1	1	1	1	I		1	1	1	1
567		40 days	Tue 7/8/18	Fri 21/9/18			1	1	1		1	1			1			1	1				1	-
568	2/F	40 days	Tue 7/8/18	Fri 21/9/18		· ·		1	1				i i	1	1	1	i i	1	1			1		÷
569		40 days	Tue 7/8/18	Fri 21/9/18	i i	i i	i	i	i	i i	i.	i	i i	i	i	i	i.	i.	i.	i i	i i	i i	i	i.
570		40 days	Tue 7/8/18	Fri 21/9/18	I I	L L	1	I.	I.	1 1	1	1	1	1	1	1	1	1	I		1	1	1	1
571	101	40 days	Tue 7/8/18	Fri 21/9/18				1	1		-	1	-	1	1			1	1				1	-
572		7 days	Mon 17/9/18	Tue 25/9/18		I I		1	1			1		1	1	1		1	1		i i			1
573 574	moonamour nariang and many motanation	627 days	Mon 27/2/17	Mon 17/12/18	i i	i i	i	i	i	i i	i.	i	i	i.	7/2	12/4		1			Í.	1	1	1
574	submission schedule)	45 days	Mon 27/2/17	Wed 12/4/17					l l		1	1			6/2	1 12/4	 4/5	1	1			1		1
	refer to submission schedule)	60 days	Mon 6/3/17	Thu 4/5/17											0/3 	i	 	1	1					
576 577		228 days	Sun 25/3/18	Wed 5/12/18		· ·		i i	i i	1 1		i i		1	1			1	1		i i		1	÷
578		27 days	Sun 25/3/18 Thu 31/5/18	Fri 20/4/18	i i	i i	i	i	i.	i i	i.	i i	i i	i	i	i	i -	i i	i i	i i	i i	i i	i	i.
579		21 days 50 days	Thu 21/6/18	Wed 20/6/18 Thu 9/8/18	1 I	I I	1	I.	L	1 1	1	I.	1	1	I.	1	1	I	I.		I.	1	1	1
580		7 days	Tue 27/11/18	Wed 5/12/18			1	ļ.	ļ.	1 1		1		1	1	1	1	1	l.				1	1
581		8 days	Thu 6/12/18	Mon 17/12/18				1				1						1	1					1
582	Installation	4 days	Thu 6/12/18	Tue 11/12/18	i i	· ·		1	1	1		1	i i	1	1	i	1	i i	1		i		1	i.
583		4 days	Wed 12/12/18	Mon 17/12/18	1	L L	I.	L	L	1 1	1	1	1	1	1	1	1	1	l .	I I	1	1	L	1
584	Lift (by Nominated Subcontractor)	930 days	Wed 13/4/16	Thu 22/11/18		I I I										-								÷
585		1 day	Wed 13/4/16	Wed 13/4/16			13/4 13/4				¦	1						1	1					-
586	submission schedule)	46 days	Sun 2/10/16	Wed 16/11/16		I I		i i		i i	2/10	1	6/11		i	i I	i	1	I			i		i
587	Manufacturing & Shiphient	181 days	Sat 1/4/17	Thu 28/9/17	1	L L	I.	L	L	1 1	I.	1	1		1/4	-			-		28/9	I.	1	1
588	refer to submission schedule)	60 days	Sun 29/1/17	Wed 29/3/17										29/1	1	29/3		1	 					1
589	Handover of life shares and machine rooms to have	34 days	Thu 12/4/18	Tue 15/5/18		I I		1	1			1		1	1	1		1	1					÷
590 591	installation, rao (Botallo Subject to rice's programme)	90 days	Wed 16/5/18	Mon 13/8/18	· · ·	i i		i		· ·	1		i	i	i	i	i	I	I		1		1	i.
591	Submission of Forms	0 days	Mon 13/8/18	Mon 13/8/18	I I	I I I	I.	L	1	i i	i.	1	I.	I.	I.	1	1	L	L	i i	I.	I.	1	1
593		2 days 1 day	Mon 20/8/18 Tue 6/11/18	Tue 21/8/18 Tue 6/11/18		[1	l.		1 1	1	1	1	1	1	1	1	1	l.		1	1		1
594		1 day	Tue 6/11/18	Tue 6/11/18				1			1			1			1	1	i I		1	1		1
595		1 day	Fri 26/10/18	Fri 26/10/18	· · ·	i i		i		· · ·	1	1	i	í	i	i	i	I	I		1		i i	í.
596	Lift certificate Obtained (L5, Fireman's Lift)	1 day	Mon 22/10/18	Mon 22/10/18	1	L L	L	I	I.	I I	i.	1	1	1	1	1	1	L	I	i i	I.	I.	1	1
597	Lift certificate Obtained (L1, L2)	1 day	Thu 22/11/18	Thu 22/11/18			1	1		1 1	1	1	1	1	1	1	1	1	l.		1			1
598	Beam Plus - FA Submission	120 days	Mon 7/8/17	Mon 4/12/17				1			1	1	1	1				1	7/8			4/12	1	1
599	Beam Plus - IEQ 6, 7 and WUP1	7 days	Sun 3/12/17	Sat 9/12/17		i i		1			1	1	i i	1		1	i i	i i	l I		1	3/12 📩 9/12		i.
600	FSD inspection and Issuance of Certificate (After SCCU Inspection)	11 days	Fri 9/11/18	Fri 23/11/18			I I	I.	l I		I I	I I	1	1	l	1	I I	1	I I	, I I	i I	I I	l I	I I
601	1 SD inspection	3 days	Fri 9/11/18	Tue 13/11/18	1	L L	1	I.	1	1 1	1	1	1	1	1	1	1	1	l.		1	1		1
602		1 day	Fri 23/11/18	Fri 23/11/18			1	1		1 1	1	1	1	1			1	1	l.		1	1		1
	Coordination & grant access to EMSD's contractor for installation of equipment	45 days	Mon 8/10/18	Fri 7/12/18														1	 					1
604	SCCU Pre-inspection	1 day	Mon 5/11/18	Mon 5/11/18				i			1		i i	1		1	i i	i	1		1			i
605	occo inspection	1 day	Thu 22/11/18	Thu 22/11/18	i i	i i	i	i	i.	i i	i i	1	i	i	i	i.	i.	i.	l.	I I	i	i i	í.	i.
606	rough up wonto	16 days	Fri 23/11/18	Fri 14/12/18	1	L L	1	I.	1	1 1	1	1	1	1	1	1	1	1	l	I I	1	I.		1
	General inspection with FEHD/ArchSD/S.O.	12 days	Thu 13/12/18	Fri 28/12/18				1		1 1	1			1			1	1	1		1			1
608	Project completion	1 day	Mon 31/12/18	Mon 31/12/18	1 1	. I.	1	1	1	1 1			1	1	1	1	1	1		i I	1	1	1	1

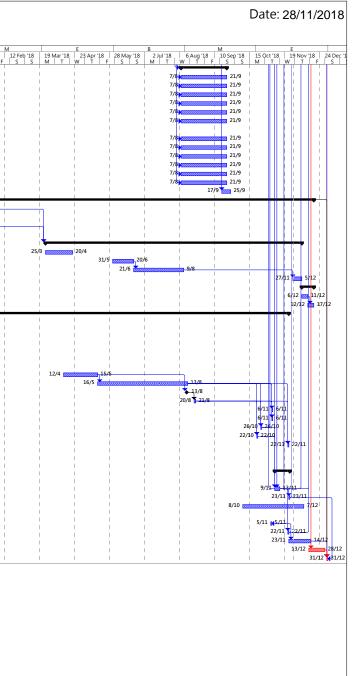
Project: SSD505 - Master Construction Task Date: Wed 28/11/18

Progress — Milestone ♦ Summary 🖛

7-13 Feb 2016 and 27 Jan- 2 Feb 2017 and 16 Feb - 19 Feb 2018 Chinese New Year site close Construction works at utility reserve area were affected by missed diversion of CLP cable

Critical Path

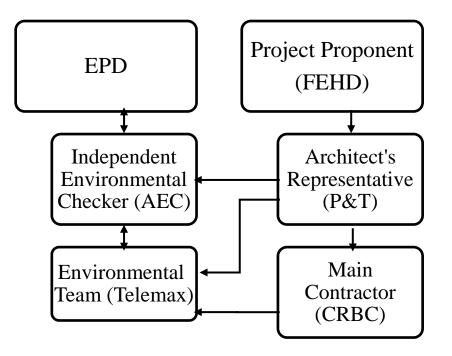
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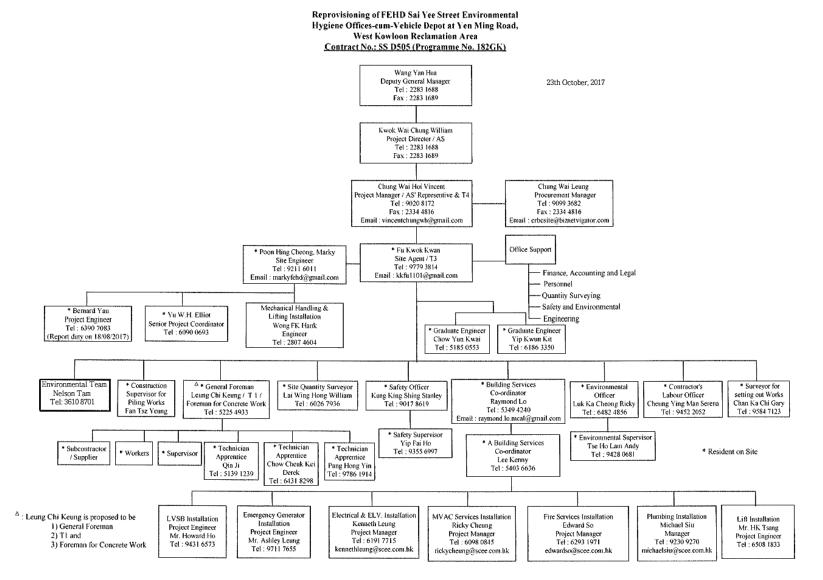
Appendix B Organization Chart





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Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

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



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Noise – Schedule of Recommended Mitigation Measures

		Location		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	v			
•	 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	¥			
•	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				✓
•	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

		Location		Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable
Wate	r Quality and Sewerage					
•	At the establishment of works site, perimeter cut-off drains to direct offsite water around the Site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels) both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction;	All areas	*			
•	Dikes or embankments for flood protection should be implemented around the boundaries of earthworks areas. Temporary ditches should be provided to facilitate the run-off discharge into an appropriate watercourse, through a silt / sediment trap. Silt / sediment traps should also be incorporated in the permanent drainage channels to enhance deposition rates;	All areas	¥			
•	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN $1/94$, which states that the retention time for silt / sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m^3 would be required and for a flow rate of 0.5m^3 /s the basin would be 150m^3 . The detailed design of the sand / silt traps should be undertaken by the Contractor prior to the commencement of construction;	All areas				✓
•	The construction works should be programmed to minimize surface excavation works during rainy seasons (April to September), as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;	All areas	*			
•	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;	All areas	~			
•	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;	All areas	~			
•	Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;	All areas	4			
•	All open stockpiles of construction materials (for example, aggregates, sand and fill material should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silts or debris into any drainage system;	All areas	*			
•	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm run-off being directed into foul sewers;	All areas	*			
•	Precautions to be taken at any time of the year when rainstorms are likely actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface run-off during storm events;	All areas	1			
•	All vehicles and plant should be cleaned before leaving the Site to ensure no earth, mud, debris and the like is	All areas	√			

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. (002)					
	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	1		
•	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	1		
•	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	1		
•	Minimum distance of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes.	All areas	1		
•	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	1		
•	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			~
•	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			\checkmark





Waste - Schedule of Recommended Mitigation Measures

	Environmental Dustastian Massures		Implementation Status						
	Environmental Protection Measures	Location	Implemented	Partially Implemented	Not Implemented	Not Applicable			
Waste	e Management and Land Contamination								
•	The requirements as stipulated in the ETWB TC(W) No. 19/2005 "Environmental Management on Construction Sites" and the other relevant guidelines should be included in the Particular Specification for the Contractor as appropriate. Contractor should be required to implement the recommended waste management measures through establishing a Waste Management Plan (WMP) in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should be submitted to the Project/Site Engineer prior to the construction commencement of the Project for approval and include the followings: Waste management policy; Record of generated waste; Waste reduction target; Waste reduction programme; Role and responsibility of waste management team; Benefit of waste management; Analysis of waste materials; Reuse, recycling and disposal plans; Transportation process of waste products; and Monitoring and action plan. The waste management hierarchy below should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (location) should be properly documented	All areas	~						
•	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D Materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage. The Contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.		4						
•	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future Contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.		~						
•	All waste containers shall be in a secure area on hardstanding.	All areas	✓						
•	Training of site personnel in, site cleanliness, proper waste management and chemical handling procedures.	All areas	✓						
•	Provision of sufficient waste disposal points and regular collection of waste.	All areas	✓						
•	Appropriate of sufficient waste disposal points and regular collection of waste by either covering trucks or by transporting wastes in enclosed containers.	All areas	1						
•	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	All areas	√						
•	Separation of chemical wastes for special handling and appropriate treatment.	All areas	✓						
•	The site and surroundings shall be kept tidy and litter free.	All areas	√						

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.: (852) :	3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com				
•	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	\checkmark		
•	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas	✓		
•	Sorting of demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.).	All areas	\checkmark		
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	~		
•	Encourage collection of aluminum cans by providing separate labeled buns to enable this waste to be segregated from other general refuse generated by the workforce.	All areas	~		
•	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.	All areas	✓		
•	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	All areas	✓		
•	Waste haulier must hold a valid permit for the collection of waste as stipulated in their permits, Removal of waste should be done in a timely manner.	All areas	✓		
•	Register as a Chemical Waste Producers to the EPD	All areas	\checkmark		
•	Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;	All areas	\checkmark		
•	Having a capacity of <450L unless the specifications have been approved by the EPD;	All areas	\checkmark		
•	Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations;	All areas	\checkmark		
•	Clearly labelled and used solely for the storage of chemical wastes;	All areas	√		
•	Enclosed with at least 3 sides;	All areas	√		
•	Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container of 20% by volume of the chemical waste stored in the area, whichever is greatest;	All areas	√		
•	Adequate ventilation;	All areas	√		
•	Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary);	All areas	√		
•	Incompatible materials are adequately separated.	All areas	√		
•	Adequate numbers of portable toilet should be provide for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilizing them. Night soil should be regularly collected by licensed collectors.	All areas	✓		
•	The requirements stipulated in the Code of Practice on the Packaging. Labelling and Storage of Chemical Wastes should be followed in handling of chemical waste as in construction phase.	The Office- cum-Vehicle 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.				*
•	The recommendations proposed for the mitigation of impacts from chemical waste in construction phase should also be followed.	The Office- 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		4
•	Spillage/leakage of Liquid Chemical/Waste at Storage Area	The Office- cum-Vehicle Depot		V
•	Spillage/Leakage at Repairing and Maintenance Areas	The Office- cum-Vehicle Depot		V
•	Record of Incidents	The Office- cum-Vehicle Depot		4
•	Procedures for Disposal of Wastes	The Office- cum-Vehicle Depot		√



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		.		Implementa	tion Status	
	Environmental Protection Measures	Location	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		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	1			
•	In case of nighttime construction is conducted, control of nighttime lighting on the works areas to prevent undesired light pollution to the surrounding area, such as viewers from roads, should be implemented.	All areas				\checkmark
•	Provision of temporary landscape treatment during construction phase, such as temporary planting around the site office, applying aesthetic treatments on site hoardings and/or façade of site office	All areas	~			
•	Provision of green roof of site office	All areas	✓			
•	Erection of fencing around the trees	All areas	✓			
•	Avoidance of placing any construction materials close to the trees	All areas	✓			
•	Apply mulching beyond root collar	All areas	✓			
•	Conduct visual checking/monitoring in regular basis	All areas	✓			
•	Proper arrangement of materials for operational activities, including vehicle repair, maintenance, operation and parking, carried out within the office-cumvehicle depot building.	All areas				✓



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Retain Tree Survey



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Appendix D Calibration Certificates

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	CALIBI	RATION CERTIFICA	TE	
证书编号	XC1821391452I16	-02	第1页共	长6页
Certificate	No.		Page	of
委托单位 Client	上峰检测认证有限	公司		
委托单位步 Address	也址 香港荃湾海盛路3 ⁴	号TML广场10楼D6A室		
计量器具名 Description				
型号规格 Model /Typ	AWA5661			
制造商 Manufactur	爱华 er			
编 号 Serial No	304042	委托日期 Application Da	2018-06-26 te	
结 论 Conclusion	见校准结果页 Show in the result o	f calibration		
			校准 Calibrated by	they
	HE CHNO	1 de	車核 Inspected by	广岛
	证书表用真 Issued hvv Stamp) Report Sea	·····································	批准 Approved by ジーン 刻文 授权签	
校准日期	2018年06月29日	建议下次校		

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说 明

DIRECTIONS

证书编号 XC1821391452116-02

Certificate No.

- 1. 本公司出具的数据均可溯源到国家计量基准和国际单位制(SI). The data is based on the national measurement standards and SI unit standards.
- 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书.
 The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTI.
- 本证书校准结果只与受校准仪器有关. The results relate only to the items calibrated.
- **4. 本次校准的技术依据:**参照 JJG188-2002 《声级计检定规程》 Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

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

6. 校准地点、环境条件:

Place and environment condition during calibration

地点:	CTI声学室	温度: 21.3 ℃	相对湿度: 50 %RH
Place:	CTI Acoustics Lab	Temperature:	RH :

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第2页共6页 Page of Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com





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校准结果

RESULTS OF CALIBRATION

证书编号	XC1821391452I16-(TS OF CALIBR		第3页共6页
Certificate No.	AC1021391432110-0	,2		Page of
一、外观及工作正常性检	查: 正常			
Appearance and Perfor	rmance checked: Norm	al		
二、指示声压级调整(10	000Hz):			
计权方式	声压级标准值(dB) 说	喝校前声压级示值(dB) 认	揭校后声压级示值(dB)	
А	94	94.1	未调	
三、级程变化误差(1000)Hz);			
声压级标准值(dB)	声压级指示值(dB)	误差(dB)	最大允差(dB)	
34	34.2	+0.2	± 1.1	
44	44.0	0.0	± 1.1	
54	54.0	0.0	± 1.1	
64	64.1	+0.1	± 1.1	
74	74.1	+0.1	± 1.1	
84	84.1	+0.1	± 1.1	
94	94.1	+0.1	± 1.1	
104	104.1	+0.1	± 1.1	
114	114.1	+0.1	± 1.1	
四、本机(固有)噪声:				
A计权	实测值(dB)			
声信号	23.1			
电信号	17.3			
五、级限性(频率1000H;	z): 起始点指示	(声级 90 dB)		
潤量项目	目 实派	閉值(dB) 最大	允差(dB)	
起始点以上每间隔1	ldB最大误差	00	± 0.6	
起始点以下每间隔1	ldB最大误差	+0.1	± 0.6	
起始点以上每间隔1	0dB最大误差	-0.1	± 0.6	
起始点以下每间隔1	0dB最大误差	+0.2	± 0.6	

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校准结果

RESULTS OF CALIBRATION

第4页共6页

证书编号	XC1821391452I16-02			
Certificate No.				Page of
六、频率响应:				
1、A计权				
频率(Hz)	A计权标准值(dB)	允许范围(dB)	A计权响应(dB)	
10	-70.4	-66.9 ~ ∞	-71.0	
20	-50.5	-53.0 ~ -48.0	-50.7	
31.5	-39.4	-37.4 ~ -41.4	-39.7	
63	-26.2	-24.7 ~ -27.7	-26.3	
125	-16.1	-14.6 ~ -17.6	-16.2	
250	-8.6	-7.2 ~ -10.0	-8.7	
500	-3.2	-1.8 ~ -4.6	-3.2	
1000	0.0	+1.1 ~ -1.1	0.0	
2000	1.2	+2.8 ~ -0.4	+1.3	
4000	1.0	+2.6 ~ -0.6	+1.3	
8000	-1.1	+1.0 ~ -4.2	-1.4	
16000	-6.6	-3.1 ~ -23.6	-9.5	
20000	-9,3	-5.3 ~ ∞	-21.2	
2、C计权				
频率(Hz)	C计权标准值(dB)	允许范围(dB)	C计权响应(dB)	
10	-14.3	-10.8 ~ ∞	-15.6	
20	-6.2	+3.7 ~ -8.7	-6.6	
31.5	-3.0	+1.0 ~ -5.0	-3.2	
63	-0,8	+0.7 \sim -2.3	-0.9	
125	-0.2	+1.3 ~ -1.7	-0.3	
250	0.0	+1.4 ~ -1.4	-0,1	
500	0.0	+1.4 ~ -1.4	0.0	
1000	0.0	+1.1 ~ -1.1	0.0	
2000	-0.2	+1.4 ~ -1.8	-0.1	
4000	-0.8	+0.8 ~ -2.4	-0.6	
8000	-3.0	-0.9 ~ -6.1	-2.3	

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-8.5

-11.2

16000

20000

-5.0 ~ -25,5

-7.2 ~ ∞

-11.5

-23.1







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校准结果

		OF CALIBRAT	ION	第5页共6页
证书编号 Certificate No.	XC1821391452I16-02			Page of
3、Z计权				
频率(Hz)	Z计权标准值(dB)	允许范围(dB)	Z计权响应(dB)	
10	0.0	+3.5 ~ ∞	-1.2	
20	0.0	+2.5 ~ -2.5	-0.3	
31.5	0.0	+2.0 ~ -2.0	-0.1	
63	0.0	+1.5 ~ -1.5	0.0	
125	0.0	+1.5 ~ -1.5	0.0	
250	0.0	+1.4 ~ -1.4	0.0	
500	0.0	+1.4 ~ -1.4	0.0	
1000	0.0	+1.1 ~ -1.1	0.0	
2000	0.0	+1.6 ~ -1.6	0.0	
4000	0.0	+1.6 ~ -1.6	0.0	
8000	0.0	+2.1 ~ -3.1	0.0	
16000	0.0	+3.5 ~ -17.0	+0.2	
20000	0.0	+4.0 $\sim \infty$	-0.1	
七、过载指示误差 ().0 dB (介差: ± 1.8 dB)			
八、F和S时间计权:				
衰减速率(d	B/s) 实测值(dB/s)	允许范围(dB/s)		
快(F)计标	叉 34.6	>25		

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3.4~5.3

慢(S)计权 4.4



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校准结果

RESULTS OF CALIBRATION

第6页共6页 证书编号 XC1821391452I16-02 Page of Certificate No. 九、峰值C声级: 周期数 信号频率(Hz) (Lcpeak-Lc)标准值(dB) (Lcpeak-Lc)指示值(dB) 误差(dB) 最大允差(dB) -0.2 ± 1.4 3.3 3.5 1 500 2.9 -0.5 ± 2.4 1 8000 3.4 十、猝发音响应(A计权): L_{AFmax}-L_A标准值 L_{AFmax}-L_A指示值 误差(dB) 允许范围(dB) 猝发音持续时间(ms) +0.8 ~ -0.8 500 -0.1 -0.1 0.0 0.0 +0.8 ~ -0.8 200 -1.0 -1.0 +1.3 ~ -1.3 -0.2 50 -4.8 -5.0 10 -11.1 -11.5 -0.4 +1.3 ~ -1.3 允许范围(dB) L_{SFmax}-L_A指示值 误差(dB) 猝发音持续时间(ms) LASmax-LA标准值 +0.8 ~ -0.8 500 -4.3 -4.0 +0.3-7.4 +0.8 ~ -0.8 200 -7.4 0.0 +1.3 ~ -1.3 -13.1 -13.1 0.0 50 +1.3 ~ -2.3 10 -20.0 -20.0 0.0 说明(Notes): 1、 依据JJF1059.1-2012测量不确定度评定与表示,本次校准结果的扩展不确定度为: 10Hz~200Hz; U=0.5dB, k=2; 250Hz~1.25kHz; U=0.4dB, k=2; 1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2 According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement, Expanded uncertainty of measurement: 10Hz~200Hz: U=0.5dB, k=2; 250Hz~1.25kHz: U=0.4dB, k=2; 1.6kHz~10kHz: U=0.6dB, k=2; 12.5kHz~20kHz: U=1.0dB, k=2 2、 校准项目1级合格 Passed at class 1 calibrated item

3、仪器配传声器型号: AWA144251; 传声器编号: 11296

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150 0001 SD 1007 BURSAU VENTAS Certification Total

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	CALIBRATION C	FRTIFICATE	
	CALIBRATION C	EKIIFICATE	
证书编号	XC1821391664N10-03		第1页共7页
Certificate No.			Page of
委托单位 Client	上峰检测认证有限公司		
委托单位地址 Address	香港荃湾海盛路3号TML广场10	0楼D6A室	
计量器具名称 Description	声级计 Sound Level Meter		
型号规格 Model /Type	AWA5661		×.
制 造 商 Manufacturer	杭州爱华仪器有限公司	5	
编 号 Serial No.	090078	委托日期 Application Date	2018-09-21
结 论 Conclusion	见校准结果页 Show in the result of calibration	签发日期 _Issue Date	2018-09-28
		校 准 Calibrated	by AR
	北京 CONTECHNO TY	审 核 Inspected	的位于属
		批 准 Approved	
校准日期	2018年09月22日	建议下次校准日期	2019年09月21日

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of





DIRECTIONS

证书编号 XC1821391664N10-03

Certificate No.

- 1,本公司出具的数据均可溯源到国家计量基准和国际单位制(SI). The data is based on the national measurement standards and SI unit standards.
- 2. 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书. The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTL
- 3. 本证书校准结果只与受校准仪器有关.

The results relate only to the items calibrated.

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

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

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

6. 校准地点、环境条件:

Place and environment condition during calibration

地点:	CTI声学室	温度: 23.4 ℃	相对湿度:	57 %RH
Place:	CTI Acoustics Lab	Temperature:	RH :	

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校准结果

RESULTS OF CALIBRATION

	RESU	LTS OF CALIB	RATION	第3页共1
证书编号	XC1821391664N	10-03		
Certificate No.				Page of
一、外观及工作正	常性检查: 正常			
Appearance and	Performance checked: N	ormal		
二、指示声压级调	整(1000Hz):			
计权方式	声压级标准值(dB)	调校前声压级示值(dB)	调校后声压级示值(dB)	接受限(dB)
А	94	93.9	未调	± 0.3
一 新史法拉的书	信号实验(1000Hz):			
三、频率日权的声		iB) 误差(dB)	接受限(dB)	
34	34.3	+0.3	33.2 ~34.8	
44	44.1	+0.1	43.2 ~44.8	
54	54.1	+0.1	53.2 ~54.8	
64	64.0	0.0	63.2 ~64.8	
74	74.0	0.0	73.2 ~74.8	
84	84.0	0.0	83.2 ~84.8	
94	93.9	-0.1	93.2 ~94.8	
104	103.9	-0.1	103.2 ~104.8	
114	113.9	-0.1	113.2 ~114.8	
124	123.9	-0.1	123.2 ~124.8	
四、白生噪声:				
测试类	类型 频率计权	实测值(dB)		
声倍	ij Л	22.1		
	А	13.3		
电信	号 C	23.4		
	Z	27.1		

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校准结果

RESULTS OF CALIBRATION

互、级线性	(频率1000Hz): 起始点指示	示声级 90 dB		
频率	測量项目	实测值(dB)	接受限(dB)	
	起始点以上每间隔10dB最大误差	+0,1	± 0.3	
	起始点以下每间隔10dB最大误差	+0.2	± 0.3	
1000	距上限5dB内每隔1dB最大偏差	0.0	± 0.3	
	距下限5dB内每隔1dB最大偏差	+0.1	± 0.3	
	起始点以上每间隔10dB最大误差	+0.1	± 0.3	
	起始点以下每间隔10dB最大误差	+0.2	± 0.3	
8000	距上限5dB内每隔1dB最大偏差	+0.1	± 0.3	
	距下限5dB内每隔1dB最大偏差	+0.1	± 0.3	

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

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4000

8000

16000

20000

校准结果

RESULTS OF CALIBRATION

第5页共7页 XC1821391664N10-03 证书编号 Page of Certificate No. 2、C计权 接受限(dB) **频率(Hz)** C计权标准值(dB) C计权响应(dB) -11.3 ~ ∞ -14.7 10 -14.3 -6.4 -4.2 ~ -8.2 -6.2 20 -1.5 ~ -4.5 -3.1 -3.0 31.5 +0.2 ~ -1.8 -0.8 63 -0.8 +0.8 ~ -1.2 -0.2 -0.2 125 +1.0 ~ -1.0 0.00.0250 +1.0 ~ -1.0 0.0 0.0 500 +0.7 ~ -0.7 0.0 0.0 1000 +0.8 ~ -1.2 -0.2 -0.2 2000 +0.2 ~ -1.8 -0.8 -0.8 4000 -1.5 ~ -4.5 -3.1 8000 -3.0 -6.0 ~ -24.5 -8.5 -8.3 16000 -8.2 ~ ∞ -11.0 20000 -11.2 3、2计权 接受限(dB) Z计权响应(dB) Z计权标准值(dB) **频率(Hz)** +3.0 ~ ∞ 0.0 0.0 10 +2.0 ~ -2.0 0.0 20 0.0 +1.5 ~ -1.5 0.0 0.0 31.5 +1.5 ~ -1.5 0.0 0.0 63 +1.0 ~ -1.0 0.0 0.0 125 +1.0 ~ -1.0 250 0.0 0.0 +1.0 ~ -1.0 0,0 500 0.0 +0.7 ~ -0.7 0.0 1000 0.0 +1.0 ~ -1.0 0.0 2000 0.0

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0.0

0.0

0.0

0.0

0.0

0.0

0.0

-0.2

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



+1.0 ~ -1.0

+1.5 ~ -2.5

+2.5 ~ -16.0

+3.0 ~ ∞



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校准结果

证书编号 XC18 Certificate No.	321391664N10-0	3		Р	age of
					0
七、1kHz处的频率计权:	o ta ang ang ang ang ang ang ang ang ang an	胡花花之中、「	おかにおり	12FA 續索計切前伯兰(dD)	接受限(dB
A计权参考声级(dB) C频率		的雨左(db) Z	观平日 仅4	0.0	±0.2
94	0.0			0.0	-0.2
八、F和S时间计权:					
衰减速率(dB/s)	实测值(dB	l/s) ł	妾受限(dB/s)	
快(F)计权	35.4		31.0~38.5		
慢(S)计权	4.6		3.6~5.1		
九、猝发音响应(A计权):					
猝发音持续时间(ms)	L _{AFmax} -L _A 标准值	L _{AFmax} -L _A 指元	「佰	接受限(dB)	
200	-1.0	-1.0		-0.5~-1,5	
50	-4.8	-18.1		-17.0~-18.5	
10	-11.1	-27.3		-26.0~-30.0	
猝发音持续时间(ms)	L _{ASmax} -L _A 标准值	L _{SFmax} -L _A 指力	玉值	接受限(dB)	
200	-7,4	-7.3		-6.9~-7.9	
2	-27.0	-26.8		-26.0~-30.0	
说明(Notes):					
1、依据JJF1059.1-2012测量不	确定度评定与表示,	本次校准结果的	扩展不确定	e度为:	
10Hz~200Hz: U=0.5dB, k	=2; 250Hz~1.25kHz	: U=0.4dB, k	=2;		
1.6kHz~10kHz: U=0.6dB,					

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

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

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校准结果

RESULTS OF CALIBRATION

证书编号

XC1821391664N10-03

Certificate No.

2、 校准项目符合1级技术要求

The calibrated items are accord with class 1 technical specifications

3、 仪器配传声器型号: AWA14425: 传声器编号: 14075

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		12 1	主证书	
		CALIBRATI	ON CERTIFICAT	E
,	证书编号	XC1821391089116-01		第1页共3页
	Certificate No.			Page of
	委托单位 Client	上峰检测认证有限公司		
	委托单位地址 Address	香港新界荃湾海盛路3号	TML广场10楼D6A室	
	计量器具名称 Description	声级校准计	1	
	型号规格 Model /Type	Pulsar100B		
	制 造 商 Manufacturer	Pulsar		
	编 号 Serial No.	039507	委托日期 Application Date	2018-02-07
	结 论 Conclusion	见校准结果页 Show in the result of calib	vration	
	Conclusion	Show in the result of early	校	准 ibrated by 小文文
		HE SOUTECHNO TO	审 Ins	核 【 子 unf
		新書 Isoned by (Stamp) 旅告专用違 Report Seal		准 proved by 刻う静 _{授权签字人}

地址: 深圳市宝安区西乡铁岗水库桃花源科技创新园C栋公共检测中心 即以编码(Post No.): 51 Address: Public Testing Centre, Building C, Innovation Park, Taohuayuan, Tiegang Reservoir, Xixiang, Bao'an District, Shenzhen 电话(Tel):86-755-33682770 传真(Fax): 86-755-33683385 E-mail: calibration@cti-cert.com http://www.cti-cert.com

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第2页共3页 Page of いたので、「ちょう」をい



说明

DIRECTIONS

证书编号	XC1821391089I16-01

Certificate No.

- 1. 本公司出具的数据均可溯源到国家计量基准和国际单位制(SI). The data is based on the national measurement standards and SI unit standards.
- 此证书无本公司盖章无效。未经本公司书面批准,不得部分复制校准证书. The certificate shall not be valid without stamp of CTI. This certificate shall not be copied partly without the written approval of CTI.
- 本证书校准结果只与受校准仪器有关.
 The results relate only to the items calibrated.
- 本次校准的技术依据:参照 JJG176-2005《声校准器检定规程》 Reference documents for the calibration:

5. 本次校准所使用的主要计量标准器具:

Main measure equipments are used in the Calibration:

设备名称/型号	编号	证书号/有效期	计量特性
Name of Equipment/Model	Serial No.	Certificate No./Due Date	Technical Characteristic
测量放大器/AWA5810D Measuring Amplifier	089909	SSD201800032 /2018-12-27	10Hz~200Hz;U=0.5dB,k=2 250Hz~400Hz;U=0.4dB,k=2 500Hz~1.25kHz:U=0.4dB,k=2 1.6kHz~10kHz;U=0.6dB,k=2 12.5kHz~20kHz;
声校准器/4231 Acoustic Calibrator	3014336	SSD201800030 /2018-12-27	1级合格
万用表/3458A Digital Multimeter	MY45043196	校准字第201706011327 号 /2018-06-18	DCV:U=0.0004~5.7mv, k=2 ACV:U=0.002~11mv, k=2 DCI:U=0.004~23μA,k=2 ACV:U=0.003~30μA,k=2 R:0.0009Ω~0.003MΩ, k=2

6. 校准地点、环境条件:

Place and environment condition during calibration

地点:	CTI声学室	温度: 19.3 ℃	相对湿度: 46 %RH
Place:	CTI Acoustics Lab	Temperature:	RH :

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校准结果

RESULTS OF CALIBRATION

	弟 3 贝·米· Page Off				91089116-01	XC1821	:书编号 ertificate No.	
Appearance and Performance checked:Normal二、声压级测试:Sound Pressure Level Calibration:标称值实测值示值误差允差短期级漂移Nominal ValueActual ValueIndication ErrorMPEDrift1(dB)(dB)(dB)(dB)(dB)(dB)9493.93 ± 0.07 ± 0.40 0.01 ± 0.40 104103.90 ± 0.10 ± 0.40 0.01 ± 0.40 104103.90 ± 0.10 ± 0.40 0.01 ± 0.40 \equiv 、频率测试:Frequency:标称值实测值示值误差允差扩展不确定度Nominal ValueActual ValueIndication ErrorMPEExpanded Uncertainty(Hz)(Hz)(%)($k=2$) $= 0.2\%$ 100010000.0 ≤ 1.0 $U_{rel} = 0.2\%$ 四、总失真测试:Harmonic Distortion:MPEExpanded $frequencySound Pressure LevelHarmonic DistortionMPEExpanded(Hz)(dB)(%)(%)(%)= 0.33= 3.0(Hz)(dB)(%)(%)(%)= 0.33= 3.0= 0.33(1000940.3< 3.0= 0.33= 0.33(10001040.3< 3.0= 0.33(10001040.3< 3.0= 0.33(10001040.3< 3.0= 0.33(10001040.3< 3.0= 0.33(10001040.3< 3.0= 0.33$					r.			
 二、声圧级调试: Sound Pressure Level Calibration: 标称值 实测值 示值误差 允差 短期级漂移 Nominal Value Actual Value Indication Error MPE Drift (dB) (dC) (dE) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (KE) (KE)<								
Sound Pressure Level Calibration: 标称值 实测值 示值误差 允差 短期级漂移 Nominal Value Actual Value Indication Error MPE Drift 1 (dB) (dB) (dB) (dB) (dB) (dB) 94 93.93 $\pm 0.07 \pm 0.40$ 0.01 ± 0.40 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.					sked: Normal	Performance che	*.*.	-
标称值 实测值 示值误差 允差 短期级漂移 Nominal Value Actual Value Indication Error MPE Drift Drift <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>. ,</td> <td></td>							. ,	
Nominal Value Actual Value Indication Error MPE Drift I (dB) (dB) (dB) (dB) (dB) (dB) (dB) (dB) 94 93.93 ± 0.07 ± 0.40 0.01 ± 104 103.90 ± 0.10 ± 0.40 0.01 ± 5 104 103.90 ± 0.10 ± 0.40 0.01 ± 5 <	允差 扩展不确定度	<u>لا لا ال</u>	k:: 110 /07 (111 14	公主				
(dB) (dB) (dB) (dB) (dB) 94 93.93 +0.07 ± 0.40 0.01 ≤ 104 103.90 +0.10 ± 0.40 0.01 ≤ 三、颜率測试; Frequency: かが値 変測値 示值误差 允差 扩展不确定度 Nominal Value Actual Value Indication Error MPE Expanded Uncertainty (Hz) (Hz) (%) (k=2) 1000 1000 0.0 ≤ 1.0 Uret= 0.2% 四、总失真测试: <td>MPE Expanded Uncertain</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	MPE Expanded Uncertain							
94 93.93 $+0.07$ ± 0.40 0.01 104 103.90 $+0.10$ ± 0.40 0.01 \le $= 5.5$ 5.5 π^{3} 1.0 0.01 \le $= 5.5$ 5.5 π^{3} π^{3} π^{3} π^{3} Nominal Value Actual Value Indication Error MPE Expanded Uncertainty (Hz) (Hz) $(\%)$ $(\%)$ $(k=2)$ 0.00 $(k=2)$ 1000 1000 0.0 \leqslant 1.0 $U_{rel} = 0.2\%$ 0.3 \in 3.0 0.6 M^{28} $B \pm g$ $f \pm g$ $Harmonic Distortion: f = 5.5 $	(dB) (k=2)							
104 103.90 $+0.10 \pm 0.40$ 0.01 5 三、频率测试; Frequency: 亦值误差 允差 扩展不确定度 Nominal Value Actual Value Indication Error MPE Expanded Uncertainty (Hz) (Hz) (%) ($k=2$) 1000 1000 0.0 \leq 1.0 U_{rel}^{-} 0.2% 四、总失真测试; Harmonic Distortion: 频率 声压级 总失真 允差 Frequency Sound Pressure Level Harmonic Distortion MPE Expan (Hz) (dB) (%) (%) (%) (Hz) (dB) (%) (%)	(uB) $(x-2)\leq 0.10 U = 0.30 dB$. ,	. ,					
三、類率別试: Frequency: 标称值 实测值 示值误差 允差 扩展不确定度 Nominal Value Actual Value Indication Error MPE Expanded Uncertainty (Hz) (Hz) (9%) (%) ($k=2$) 1000 1000 0.0 \leqslant 1.0 $U_{rel}=$ 0.2% 四、总失真测试: Harmonic Distortion: 频率 声压级 总失真 允差 执 Frequency Sound Pressure Level Harmonic Distortion MPE Expand (Hz) (dB) (%) (%) (%) 1000 94 0.3 \leqslant 3.0 d 1000 104 0.3 \leqslant 3.0 d 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Exprin in measurement. 2、校准项目1级合格 Passed at class 1 calibrated item	≤ 0.10 $U = 0.30$ dB ≤ 0.10 $U = 0.30$ dB							
Frequency:極称值変測值示值误差允差扩展不确定度Nominal ValueActual ValueIndication ErrorMPEExpanded Uncertainty (Hz) (Hz) $(\%)$ $(\%)$ $(k=2)$ 10001000 $0.0 \leq 1.0$ $U_{rel} = 0.2\%$ 四、总失真测试:Harmonic Distortion:频率声压级总失真允差所equencySound Pressure LevelHarmonic DistortionMPEExpanded(Hz) (dB) $(\%)$ 1000104 $0.3 \leq 3.0$ d 说明(Notes):1. $xxy \chi marga ga g$	< 0.10	₹ 0.1	0.01	± 0.40	+0.10	103.90		
标称值实测值示值误差允差扩展不确定度Nominal ValueActual ValueIndication ErrorMPEExpanded Uncertainty (Hz) (Hz) $(%)$ $(\%)$ $(k=2)$ 10001000 $0.0 \leqslant 1.0$ $U_{rel}=0.2\%$ 四、总失真测试:Harmonic Distortion:频率声压级总失真允差打FrequencySound Pressure LevelHarmonic Distortion(Hz)(dB) $(\%)$ $(\%)$ 1000104 $0.3 \leqslant 3.0$ 0.3 1000104 $0.3 \leqslant 3.0$ 0.3 说明(Notes):1 $0.3 \leqslant 3.0$ 0.3 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Explinein measurement.2、校准项目1级合格Passed at class 1 calibrated item 0.3 0.3								<u> </u>
Nominal ValueActual ValueIndication ErrorMPEExpanded Uncertainty (Hz) (Hz) $(\%)$ $(\%)$ $(k=2)$ 10001000 $0.0 \leqslant 1.0$ $U_{tel} = 0.2\%$ 四、意失真测试:Harmonic Distortion:频率声压级意失真允差PrequencySound Pressure LevelHarmonic DistortionMPEExpanded(%)(%)(Hz)(dB)(%)(%)100094 $0.3 \leqslant 3.0$ 4 1000104 $0.3 \leqslant 3.0$ 4 说明(Notes):1 $x x x k k x h x marce and cording to JJF1059.1-2012Evaluation and Expanded uncertainty of measurement According to JJF1059.1-20122、校准项目1级合格Passed at class 1 calibrated item4$		始節	1° b2 7.7	公主	一方识学	立 训店		
(Hz) (Hz) (%) (%) $(k=2)$ 1000 1000 0.0 \leq 1.0 U_{rel}^{-} 0.2% 四、意失真测试: Harmonic Distortion: 频率 声压级 总失真 允差 Frequency Sound Pressure Level Harmonic Distortion MPE Expandit (Hz) (dB) (%) (%) (%) 1000 94 0.3 \leq 3.0 1000 104 0.3 \leq 3.0 说明(Notes): 1.<					The second second second second			
1000 1000 0.0 ≤ 1.0 $U_{rel} = 0.2\%$ 四、意失真测试: Harmonic Distortion: 频率 声压级 意失真 允差 力 Frequency Sound Pressure Level Harmonic Distortion MPE Expanding (Hz) (dl3) (%) (%) (%) 1000 94 0.3 ≤ 3.0 $= 3.0$ 1000 104 0.3 ≤ 3.0 $= 6.6$ 说明(Notes): 1 x本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Exprin measurement. 2、 校准项目1级合格 Passed at class 1 calibrated item $= 1.000$	Ŷ							
四、总失真测试: Harmonic Distortion: 频率 声压级 总失真 允差 加 Frequency Sound Pressure Level Harmonic Distortion MPE Expa (Hz) (dB) (%) (%) 1000 94 0.3 ≤ 3.0 0 1000 104 0.3 ≤ 3.0 0 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Exp in measurement. 2、 校准项目1级合格 Passed at class 1 calibrated item		5. 						
Marmonic Distortion: 频率 声压级 总失真 允差 加 Frequency Sound Pressure Level Harmonic Distortion MPE Expanded (Hz) (dB) (%) (%) (%) 1000 94 0.3 ≤ 3.0 6 1000 104 0.3 ≤ 3.0 6 说明(Notes): 1 本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expande uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement. 2、校准项目1级合格 Passed at class 1 calibrated item		.270	U rel 0	₹ 1.0	0.0	1000		mı
 频率 声压级 总失真 允差 执 Frequency Sound Pressure Level Harmonic Distortion MPE Expanded (Hz) (dB) (%) (%) 1000 94 0.3 ≤ 3.0 0 1000 104 0.3 ≤ 3.0 0 1x 本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded Uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded Uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expanded Uncertainty of measurement According to JJF1059.1-2012 Evaluation According to JJF1059.1-2								四、
Frequency Sound Pressure Level Harmonic Distortion MPE Expanded (Hz) (dB) (%) (%) 1000 94 0.3 ≤ 3.0 0 1000 104 0.3 ≤ 3.0 0 说明(Notes): 1 本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Explinin measurement. 2、 校准项目1级合格 Passed at class 1 calibrated item	扩展不确定度	於屋之	分差	首出古				
 (Hz) (dB) (%) (%) 1000 94 0.3 ≤ 3.0 1 1000 104 0.3 ≤ 3.0 1 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Explinin measurement. 2、校准项目1级合格 Passed at class 1 calibrated item 	anded Uncertainty							
1000 94 0.3 ≤ 3.0 0 1000 104 0.3 ≤ 3.0 0 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Explicit in measurement. 2、校准项目1级合格 Passed at class 1 calibrated item	(k=2)	1.1			Level Harmo			
1000 104 0.3 ≤ 3.0 0.0 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 1、本次校准结果的扩展不确定度依据JJF1059.1-2012 Evaluation and Exprine measurement. 2、校准项目1级合格 Passed at class 1 calibrated item	(K-2) $U_{\rm rel} = 1.5\%$							
 说明(Notes): 1、本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Expline measurement. 2、校准项目1级合格 Passed at class 1 calibrated item 	$U_{\rm rel} = 1.5\%$	1000 A 80						
 本次校准结果的扩展不确定度依据JJF1059.1-2012测量不确定度评定与表示。 Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Exp in measurement. 校准项目1级合格 Passed at class 1 calibrated item 	0 rel - 1.570	O rel	₹ 3.0	0.5		104		24.0
Expanded uncertainty of measurement According to JJF1059.1-2012 Evaluation and Exp in measurement. 2、校准项目1级合格 Passed at class 1 calibrated item		-		加見了花	HUD1060 1 201	论员了本户应用		
in measurement. 2、校准项目1级合格 Passed at class 1 calibrated item	CIL CIL			and and and				I.
2、校准项目1级合格 Passed at class 1 calibrated item	ression of Uncertainty	and Expressio	12 Evaluation	JJF 1059.1-	ient According to	inty of measuren		
Passed at class 1 calibrated item						,		
								2,
						calibrated item	Passed at class 1 c	
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Appendix E Impact Monitoring Data of Noise

Noise Monitoring Record Sheet

Contract No: SS D505

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

Da	ata of Monitoring												6/11/	2018											
Mo	onitoring Location												NSR	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoo	one Sec Sch	ool										
Sou	and Level Method		Sound level meter : AWA5661 S/N304042																						
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status		Sunny																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	ର୍ଟ(E)	<5(E)	<5(E)	<5(E)	<5(E)	ର୍ଟ(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	්(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00
	L10 dB(A)	65.2	65.7	65.3	66.2	66.8	66.6	67.1	67.2	67.3	68.4	67.5	68.6	67.7	66.3	66.8	65.4	66.5	66.2	65.8	66.3	65.1	65.5	65.4	65.8
	L90 dB(A)	57.7	57.3	56.9	61.0	61.2	61.4	62.0	61.7	62.3	62.7	62.1	63.1	62.9	61.7	61.3	60.8	61.1	60.6	59.4	60.2	58.8	57.9	57.3	57.1
Measured Noise	Leq dB(A)	63.6	63.5	63.7	64.1	64.8	64.9	65.2	65.6	65.7	66.1	65.8	66.3	65.2	64.4	64.5	63.9	64.1	64.5	63.7	64.0	63.8	63.9	63.2	63.4
Level (dB(A))	L10 (Average)												66	.6											
	L90 (Average)												60	.8											
	Leq (30 min)												64	.6											
Noise Li	mit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site Co	onstruction Activities		Drilling & Hammering																						
Other Noise S	Sources During Measurement											Hu	man Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	Cattin	30/11/2018

Noise Monitoring Record Sheet

Contract No: SS D505

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

Da	ta of Monitoring												6/11/	2018											
	nitoring Location												NSR												
Descrit	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)													WA5661 S 100B S/N0											
Weather	Status		Sunny																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	71.4																							
	L90 dB(A)	64.3	64.1	64.5	65.1	65.3	64.7	65.0	65.5	66.7	66.8	67.3	67.6	66.9	66.3	65.8	67.1	66.9	65.5	65.2	64.7	64.9	65.3	64.4	64.5
Measured Noise	Leq dB(A)	69.1	68.8	69.9	70.1	70.5	69.6	70.7	70.9	71.4	71.6	72.2	72.0	72.7	71.8	70.3	72.4	71.4	70.7	70.3	69.4	69.8	70.5	69.1	69.5
Level (dB(A))	L10 (Average)												72	.8											
	L90 (Average)												65	.7											
	Leq (30 min)												70	.8											
Noise Lir	nit Level, Leq, (dB(A))		75dB(A)																						
Site Co	onstruction Activities		Drilling & Hammering																						
Other Noise S	ources During Measurement											Hu	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

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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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

D	ata of Monitoring												12/11	/2018											
Mo	onitoring Location												NSRI	(EP)											
Descri	iption of the Location											Sir	Ellis Kadoo	ne Sec Sch	ool										
So	und Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
(Mc	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status		Cloudy																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	64.4																							
	L90 dB(A)	57.2	57.5	58.1	58.8	59.2	60.1	60.6	61.7	61.1	61.6	62.2	61.9	62.3	61.5	60.7	60.9	61.3	61.4	60.8	60.5	59.7	59.6	58.5	57.4
Measured Noise	Leq dB(A)	62.1	62.7	63.4	63.0	63.8	64.6	64.9	65.0	64.5	65.1	65.0	64.5	65.3	64.4	64.3	64.0	64.7	65.3	64.9	64.3	63.8	63.5	63.0	62.2
Level (dB(A))	L10 (Average)												66	.3											
	L90 (Average)												60	.4											
	Leq (30 min)												64	.2											
Noise Li	mit Level, Leq, (dB(A))		70dB(A) for school / 65 dB(A) during examination																						
Site C	onstruction Activities		Drilling & Hammering																						
Other Noise S	Sources During Measurement											Hui	nan Activiti	es and Veh	icle										

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	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	altri	30/11/2018

Noise Monitoring Record Sheet

Contract No: SS D505

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

D	ata of Monitoring												12/11	0010											
	0																								
Mo	nitoring Location												NSR	(EP)											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)												el meter : A ator: Pulsar												
Weather	Status		Cloudy																						
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Finish	7:30																							
	L10 dB(A)	71.3	71.5	72.2	72.4	71.6	72.3	72.7	72.8	73.5	73.6	74.8	74.6	75.5	75.8	74.6	74.1	73.2	73.5	72.4	71.6	72.2	71.7	70.4	70.3
	L90 dB(A)	64.3	64.7	65.5	65.8	64.7	65.3	65.4	65.0	66.2	66.1	67.3	67.4	67.8	67.3	68.1	67.9	66.8	66.3	65.5	64.7	65.1	64.8	63.7	63.9
Measured Noise	Leq dB(A)	69.2	69.7	70.4	70.3	69.9	70.2	70.8	70.5	71.4	71.7	72.1	72.8	73.0	73.3	72.7	72.4	71.7	71.3	70.8	69.9	70.6	69.3	68.9	68.7
Level (dB(A))	L10 (Average)												73	.1											
	L90 (Average)												66	.0											
	Leq (30 min)												71	.1											
Noise Lii	mit Level, Leq, (dB(A))		75dB(A)																						
Site Co	onstruction Activities		Drilling & Hammering																						
Other Noise S	ources During Measurement											Hui	nan Activit	es and Veh	nicle									-	

	Name	Signature	Date
Recorded by	Mary Yiu	Y	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

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



Noise Monitoring Record Sheet

Contract No: SS D505

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

Da	ata of Monitoring												17/11	/2018											
Mc	onitoring Location												NSR	l (EP)											
Descri	iption of the Location											Sir	Ellis Kadoo	one Sec Sch	ool										
Sou	und Level Method											Sound lev	el meter : A	WA5661 S	N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status							_					Su	nny											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<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 14:00 14:30 14:00 14:30 15:00 15:00 15:00 16:30 17:00 17:00 17:00 18:00 18:00 18:00 19:00																						
	L10 dB(A)	64.1	64.8	65.2	66.3	66.4	67.2	66.8	67.1	67.2	66.9	66.3	65.4	66.2	66.8	66.3	65.1	65.4	66.2	65.7	66.9	66.0	65.3	65.4	64.3
	L90 dB(A)	57.3	57.5	58.4	60.2	60.3	61.6	60.7	61.1	61.4	60.7	60.3	59.9	61.0	61.3	60.8	59.7	59.5	60.2	59.8	60.1	60.2	59.5	58.7	58.1
Measured Noise	Leq dB(A)	62.6	62.7	63.6	64.4	64.1	65.2	64.7	65.3	65.6	64.8	64.2	63.8	64.5	64.7	64.1	63.6	63.9	64.0	63.8	64.4	64.3	63.8	63.1	62.4
Level (dB(A))	L10 (Average)												66	.1											
	L90 (Average)												60	.1											
	Leq (30 min)												64	.1											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	IB(A) during	g examinati	on									
Site Co	onstruction Activities												Drilling &	Hammering											
Other Noise S	Sources During Measurement											Hui	nan Activit	ies and Veh	icle										

EEM

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

Noise Monitoring Record Sheet

Contract No: SS D505

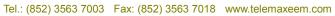
Contract Title: Reprovisioning of FEHD Sai Yee Street Environmental Hygiene Offices-cum- Vehicle Depot at Yen Ming Road, West Kowloon Reclamation

Da	ata of Monitoring												17/11	/2018											
Mc	onitoring Location												NSR	(EP)											
Descri	iption of the Location												Fu Yur	House											
Sound Level M	fethod (Model and Serial No.)												el meter : A ator: Pulsar												
Weather	Status												Su	nny											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)											
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
Infferit Statt 7.00 7.30 8.30 9.30 9.20 10.00 11.30 11.20 12.30 13.30 14.30 14.30 15.30 1											18:30	19:00													
	L10 dB(A)	70.7	71.4	72.6	71.7	72.2	71.6	72.4	73.2	73.1	72.4	73.8	74.4	74.6	75.1	75.2	74.3	74.7	75.1	75.6	74.8	73.2	72.4	72.5	71.1
	L90 dB(A)	63.8	64.2	65.2	64.8	65.3	64.7	65.5	66.2	66.4	65.7	65.9	66.9	67.1	67.8	67.9	66.3	66.5	67.4	67.2	66.9	66.3	65.5	65.1	64.7
Measured Noise	Leq dB(A)	68.9	69.1	70.2	69.3	70.7	69.8	70.1	71.4	71.6	70.8	71.5	72.1	72.9	73.1	73.0	72.7	72.9	73.3	73.0	72.1	71.1	70.7	70.2	69.4
Level (dB(A))	L10 (Average)												73	.5											
	L90 (Average)												66	.1											
	Leq (30 min)												71	.5											
Noise Li	mit Level, Leq, (dB(A))												75d	B(A)											
Site C	onstruction Activities												Drilling &	Hammering											
Other Noise S	Sources During Measurement											Hui	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

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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	ata of Monitoring												22/11	0010											
-	0												23/11												
Mo	nitoring Location												NSR I	(EP)											
Descri	ption of the Location											Sir	Ellis Kadoc	ne Sec Sch	ool										
Sou	und Level Method											Sound lev	el meter : A	WA5661 S	/N304042										
(Mo	del and Serial No.)											Calibr	ator: Pulsar	100B S/N0	39507										
Weather	Status												Clo	udy											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)										
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring Finish 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 13:30 13:00 13:30 14:00 14:30 15:00 15:00 16:00 16:00 16:00 17:00 18:00											18:30	19:00													
	L10 dB(A)	65.2	64.6	65.5	67.7	66.6	66.2	66.5	66.7	67.9	67.4	66.1	66.3	66.8	65.6	65.8	66.2	66.9	67.6	66.7	66.3	65.4	64.2	64.1	64.6
	L90 dB(A)	58.5	58.1	59.6	59.7	60.0	61.2	61.3	61.9	62.2	62.3	61.7	61.8	61.0	59.3	58.7	59.2	60.3	61.6	61.1	60.9	59.5	58.8	57.9	58.2
Measured Noise	Leq dB(A)	63.1	62.9	63.4	63.9	64.1	64.3	64.0	64.9	65.2	65.1	64.4	64.2	64.0	63.5	63.7	64.3	64.8	65.1	64.6	64.1	63.2	62.5	62.2	62.3
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												60	.4											
	Leq (30 min)												64	.0											
Noise Lir	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	B(A) durin	g examinat	on									
Site Co	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hu	nan Activiti	es and Veh	icle									-	

FFM

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

Noise Monitoring Record Sheet

Contract No: SS D505

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

D	· · · · ·												02/11	0010											
	ata of Monitoring												23/11												
Mc	nitoring Location												NSR	(EP)											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	iethod (Model and Serial No.)													WA5661 S 100B S/N0											
Weather	Status												Clo	udy											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)											
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
											19:00														
	L10 dB(A)	70.1	71.2	70.5	71.6	72.7	72.5	73.3	73.4	74.6	73.8	72.1	72.8	73.6	73.9	73.4	72.5	71.4	71.8	72.0	72.8	71.7	71.6	70.5	70.4
	L90 dB(A)	63.9	64.5	63.6	65.8	65.9	65.5	66.2	66.9	67.1	66.3	65.4	65.2	66.7	66.5	66.2	65.8	64.4	64.7	65.8	65.1	64.3	64.8	63.6	63.4
Measured Noise	Leg dB(A)	68.7	69.3	68.9	69.9	70.4	70.6	71.2	71.5	72.2	71.4	70.9	70.7	71.3	71.8	71.0	70.4	69.7	69.2	70.2	70.3	69.2	69.3	68.7	68.6
Level (dB(A))	L10 (Average)												72	.4											
	L90 (Average)												65	.4											
	Leq (30 min)												70	.4											
Noise Li	mit Level, Leq, (dB(A))												75d1	3(A)											
Site C	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hu	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

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

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

D	· (M 1/1												20/11	0010											
	ata of Monitoring												29/11												
Mo	onitoring Location												NSR I	(EP)											
Descri	iption of the Location											Sir	Ellis Kadoc	ne Sec Sch	ool										
Soi	und Level Method											Sound lev	el meter : A	WA5661 S	N304042										
(Mo	del and Serial No.)											Ca	librator: NE	9 S/N5072	58										
Weather	Weather Status Fine Condition Wind Strength (m/s) G(E) G(E) <td< td=""></td<>																								
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)										
Time of	Start	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
Monitoring	Monitoring Finish 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:00 11:00 12:00 12:00 13:00 14:00 14:00 14:00 15:00 15:00 16:00 16:00 17:00 17:00 18:00											19:00													
	L10 dB(A)	64.5	64.4	65.3	65.8	66.9	66.4	67.1	67.3	66.5	67.7	66.3	66.1	67.8	66.2	67.3	66.6	65.1	65.3	66.0	65.5	65.9	66.2	65.7	64.3
	L90 dB(A)	57.1	57.0	58.2	58.5	59.2	59.3	60.7	61.0	60.9	61.3	60.5	60.3	61.4	61.2	61.3	60.6	59.8	59.3	60.0	59.7	58.9	60.1	59.7	58.5
Measured Noise	Leq dB(A)	62.9	62.4	63.7	63.5	64.1	64.6	65.3	65.2	64.9	65.5	64.7	64.2	65.6	64.7	65.2	64.1	63.5	63.9	64.6	63.3	63.7	64.3	63.6	62.8
Level (dB(A))	L10 (Average)												66	.2											
	L90 (Average)												59	.9											
	Leq (30 min)												64	.3											
Noise Li	mit Level, Leq, (dB(A))										70	dB(A) for s	chool / 65 d	B(A) during	g examinati	on									
Site C	onstruction Activities												Drilling & I	lammering											
Other Noise S	Sources During Measurement											Hui	nan Activiti	es and Veh	icle										

EEM

	Name	Signature	Date
Recorded by	Mary Yiu	2	30/11/2018
Checked by	Calvin Lui	affin	30/11/2018

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												29/11	/2018											
Mc	nitoring Location												NSR	7 (EP)											
Descri	ption of the Location												Fu Yun	House											
Sound Level M	ethod (Model and Serial No.)													.WA5661 S 09 S/N5072											
Weather	Status												Fi	ne											
Condition	Wind Strength (m/s)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)	<5(E)											
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
Inte of Start 730 730 8300 850 930 920 1000 1150 1130 1200 1230 1300 1530 1300 1530 1300 1530 1530 15											17:30	18:00	18:30	19:00											
	L10 dB(A)	71.7	70.6	71.8	72.2	71.5	72.6	73.4	74.5	73.3	72.2	73.1	74.4	74.5	75.6	74.7	74.8	73.1	73.8	73.1	72.5	71.1	70.9	71.6	70.5
	L90 dB(A)	63.4	63.1	64.0	65.2	64.7	65.3	66.2	67.1	66.9	65.7	66.3	67.8	67.2	67.9	66.8	66.9	65.7	65.5	66.1	65.8	64.5	64.1	64.8	64.1
Measured Noise	Leq dB(A)	69.1	68.9	69.6	70.3	69.4	70.7	71.3	72.2	71.8	70.9	71.5	72.2	72.4	73.1	72.9	72.1	71.5	71.9	71.0	70.3	69.6	68.7	69.2	68.3
Level (dB(A))	L10 (Average)												73	.0											
	L90 (Average)												65	.8											
	Leq (30 min)												71	.0											
Noise Li	nit Level, Leq, (dB(A))												75d1	B(A)											
Site C	onstruction Activities												Drilling & I	Hammering											
Other Noise S	ources During Measurement											Hur	nan Activit	ies and Veh	icle										

	Name	Signature	Date
Recorded by	Mary Yiu	Y	30/11/2018
Checked by	Calvin Lui	afri	30/11/2018

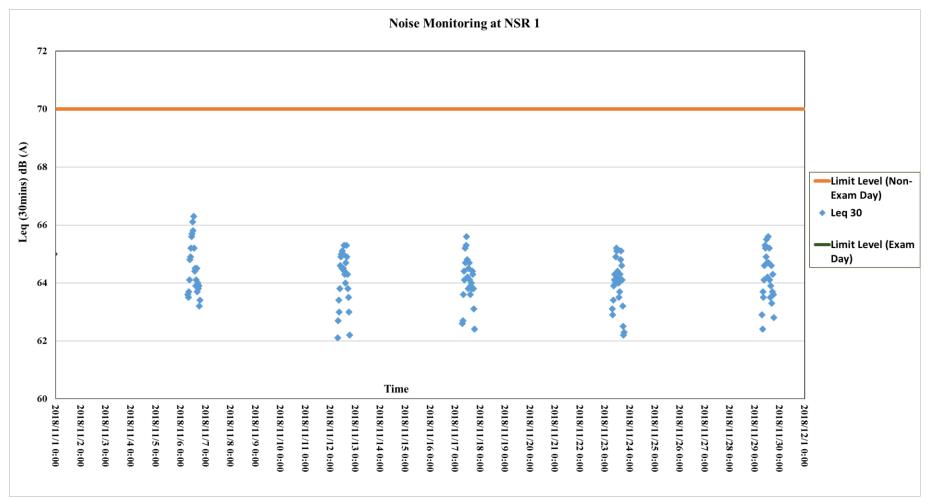
香港沙田火炭山尾街 18-24 號沙田商業中心 16 樓 9-10 室 Tel.: (852) 3563 7003 Fax.: (852) 3563 7018 網址: http://www.telemaxeem.com







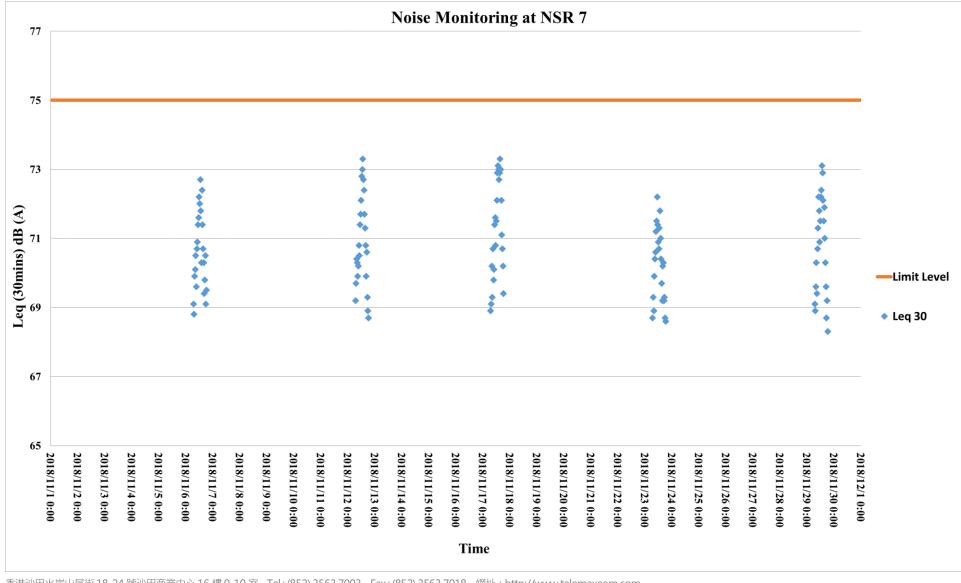
Appendix F Graphical Plot of Leq (30 min)







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Appendix G Monitoring Schedule

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

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

Remarks: IN – Impact Noise Monitoring

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

NSR 7 - Fu Cheong Estate Fu Yun House





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

Impact Monitoring Schedule (December 2018)

						December 2018
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	6	7	8
9	10	11 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	12	13	14	15
16	17 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	18	19	20		22 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900
23	24	25	26	27	28 IN - NSR 1 & NSR 7 NSR 1: 0700 -1900 NSR 7: 0700 -1900	29
30	31					

Remarks: IN - Impact Noise Monitoring

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

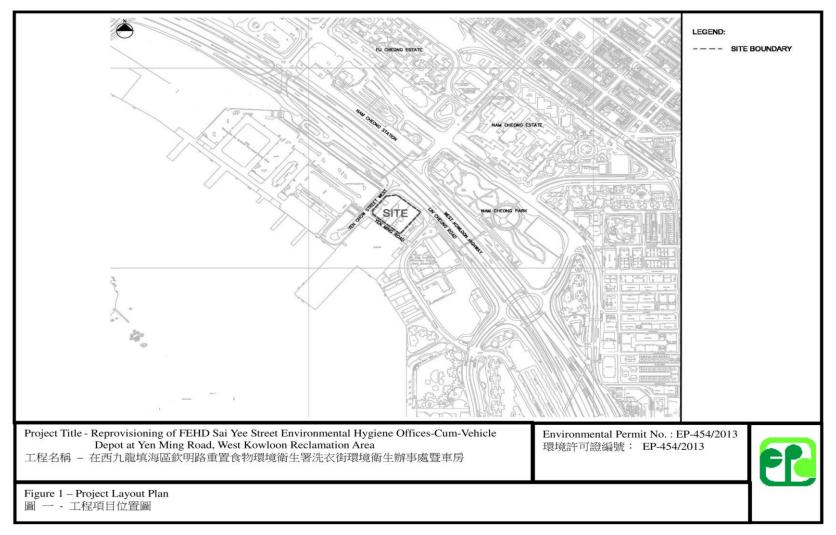
NSR 7 - Fu Cheong Estate Fu Yun House





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Appendix H Project Layout

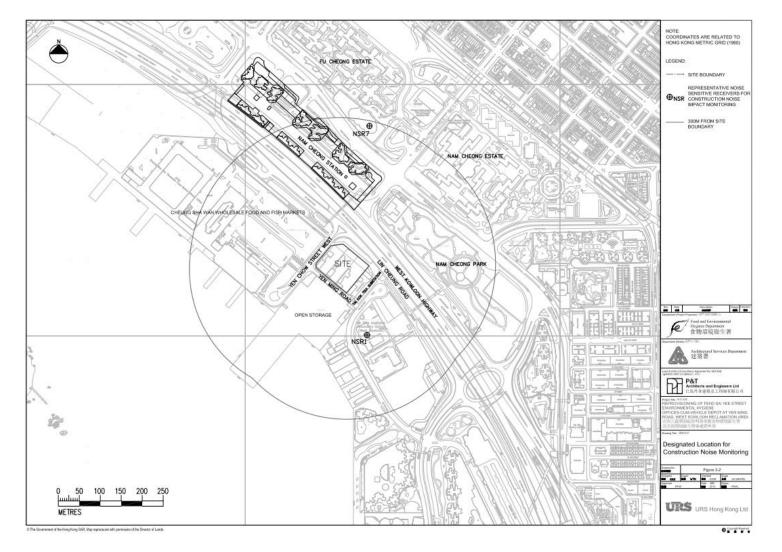






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Appendix I Location of the Impact Monitoring Locations





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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 Year of Record: 2018

Monthly Waste Flow Table

DD.MM.YY	Total Quantity	Total Quantity		Actual Quantities of Inert C&D Materials Generated Monthly								Actu	ual Quantitie	s of C&D M	aterials Ge	nerated Mo	nthly
	Generated	Generated (Excluded	Excavated Materials		Non-excavated Materials					Metals	Metals	Paper /	Plastics	Chemical	Other, e.g.		
		Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Landfill	Disposed in Sorting Facilities	(steel bar / metal strip) (1)	(aluminum can) ⁽¹⁾	cardboard packaging ⁽¹⁾		waste (wasted lubricant oil/oil container)	general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
	a1	a2	b	b	b	с	d	е	f	g	h	i	j	k	I	m	n
1-Nov-18	11.15	11.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.15
2-Nov-18	8.93	8.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93
3-Nov-18	8.45	8.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	7.90
5-Nov-18	8.97	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.97
6-Nov-18	125.17	6.82	118.35	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	6.82
8-Nov-18	12.79	12.79	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	12.79
9-Nov-18	3.45	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45
13-Nov-18	5.68	5.68	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	5.68
14-Nov-18	60.80	8.17	52.63	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	8.17
15-Nov-18	44.69	5.71	38.98	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	5.71
16-Nov-18	59.63	10.84	48.79	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	10.84
17-Nov-18	43.22	4.68	38.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.68
19-Nov-18	33.79	8.38	25.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.38
20-Nov-18	36.73	4.29	32.44	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	4.29
21-Nov-18	41.37	1.47	39.90	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	1.47
23-Nov-18	43.60	4.89	38.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89
24-Nov-18	12.18	12.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.18
26-Nov-18	29.01	6.12	22.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00	2.98
27-Nov-18	54.75	7.89	46.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.89
28-Nov-18	41.29	0.00	41.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29-Nov-18	8.74	8.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74
30-Nov-18	28.85	4.52	24.33	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	4.52
Total	723.24	154.12	569.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.69	0.00	0.00	0.00	0.00	150.43

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

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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 723.24
 tonnes
 a1=b+c+d+e+f+g+h+i+j+k+l+m+n

 154.12
 tonne
 a2=c+d+e+f+g+h+i+j+k+l+m+n

 3.69
 tonne
 a3=c+d+e+f+g+h+i+j+k+l+m+n

 0.02
 %
 a4=a3/a2 × 100%

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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 2018

Year of Record:

Overall Summary Waste Flow Table

DD.MM.YY	Total Quantity	Total Quantity	1	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Materials Generated Monthly					
DD.IVIIVI. I I	Generated	Generated							Metals	Metals	Paper /	Plastics	Chemical				
		(Excluded Excavated Material)	Disposed in Public Fill			Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill		Disposed in Sorting Facilities	(steel bar / metal strip)	(aluminum can) ⁽¹⁾	cardboard packaging ⁽¹⁾	(1) & (4)	waste (wasted lubricant oil/oil container)	general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	Projects)	(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	c	d	e	f	g	h	1	1	k	1	m	n
Mar-16	36.48	4.58	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	2.00
Apr-16	9.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.20
May-16	4.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
Jun-16	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20
Jul-16	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80
Aug-16	109.80	0.50	109.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Sep-16	659.70	8.10	651.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
Oct-16	1280.90	1.50	1279.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
Nov-16	1463.50	4.30	1459.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.30
Dec-16	2590.32	5.22	2585.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00	3.50
Jan-17	765.30	17.90	747.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.90
Feb-17	5265.80	4.50	5261.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
Mar-17	6161.20	5.00	6156.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
Apr-17	2230.12	24.12	2206.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.92	0.00	0.00	0.00	0.00	11.20
May-17	1592.44	26.74	1565.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	21.80
Jun-17	949.60	39.20	910.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.20
Jul-17	1081.92	31.88	1050.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.88
Aug-17	52.82	52.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.82
Sep-17	90.88	85.47	5.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.47
Oct-17	202.80	55.98	146.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.98
Nov-17	76.74	76.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.74
Dec-17	201.74	81.31	120.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.31
Jan-18	286.71	74.17	212.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.17
Feb-18	96.60	72.29	24.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.29
Mar-18	254.50	132.29	122.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.29
Apr-18	163.58	123.87	39.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.87
May-18	382.01	257.18	124.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	257.18
Jun-18	393.51	229.20	164.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	229.20
Jul-18	398.20	255.05	143.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	255.05
Aug-18	1822.02	220.44	1601.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220.44
Sep-18	781.30	170.83	610.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	170.83
Oct-18	906.88	242.15	664.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	242.15
Nov-18	723.24	154.12	569.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.69	0.00	0.00	0.00	0.00	150.43
Total	31042.41	2479.25	28563.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.85	0.00	0.00	0.00	0.00	2453.40

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

31042.41 tonnes 2479.25 tonne 25.85 tonne 1.04% %

a1=b+c+d+e+f+g+h+i+j+k+l+m+n a2=c+d+e+f+g+h+i+j+k+l+m+n a3=c+d+e+i+j+k+l a4=a3/a2 x 100%

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

(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 曰 期	- (Ken Y.K. Wong) Principal Environmental Protection Officer for Director of Environmental Protection 環境保護署署長

PART B (DESCRIPTION OF DESIGNATED PROJECT)

B部(指定工程項目的說明)

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

下列為本環境許可證(下稱"許可證")A部所提及的指定工程項目的說明:

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

PART C (PERMIT CONDITIONS)

C部 (許可證條件)

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1. <u>General Conditions</u> 一般條件

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

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

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

2. Specific Conditions

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

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

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

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

Management Organization of Main Construction Company

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

Submission of Landscape and Visual Mitigation Plan of the Project

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

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

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

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

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

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Project.

Measures for Mitigating Odour Impact during Operation of the Project

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

Measures for Mitigating Noise Impact during Operation of the Project

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

3. Environmental Monitoring and Audit Requirements

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

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provided upon request by the Director.

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

4. <u>Electronic Reporting of EM&A Information</u>

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

or otherwise as agreed by the Director.

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

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

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

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

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

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

Notes:

註:

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

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

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

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Schedule 2 of the EIAO without a valid environmental permit.

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

- Any person who constructs or operates the Project contrary to the conditions in the Permit, and is convicted of an offence under the EIAO, is liable: 如任何人在違反本許可證的條件下建造或營辦工程項目,根據環評條例,即屬犯罪-
 - on a first conviction on indictment to a fine of \$2 million and to imprisonment for 6 months;
 一經循公訴程序首次定罪,可處罰款200萬元及監禁6個月;
 - (ii) on a second or subsequent conviction on indictment to a fine of \$5 million and to imprisonment for 2 years;

一經循公訴程序第二次或其後每次定罪,可處罰款500萬元及監禁2年;

- (iii) on a first summary conviction to a fine at level 6 and to imprisonment for 6 months;
 一經循簡易程序首次定罪,可處第6級罰款及監禁6個月;
- (iv) on a second or subsequent summary conviction to a fine of \$1 million and to imprisonment for 1 year; and

一經循簡易程序第二次或其後每次定罪,可處罰款100萬元及監禁1年;及

- in any case where the offence is of a continuing nature, the court or magistrate may impose a fine of \$10,000 for each day on which he is satisfied the offence continued. 在任何情況下如該罪行屬連續性質,法院或裁判官可就其信納該罪行連續的每一天另處罰 款10,000元。
- The Permit Holder may appeal against any condition of this Permit under Section 17 of the EIAO within 30 days of receipt of this Permit.
 許可證持有人可在接獲本許可證後30天內,根據環評條例第17條就本許可證的任何條件提出上 訴。
- The Notes are for general reference only and that the Permit Holder should refer to the EIAO for details and seek independent legal advice.
 上述註解只供一般參考用,欲知有關詳情,許可證持有人須參閱環評條例及徵詢獨立法律意見。

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

Figure 1 Figure 2 Figure 3

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

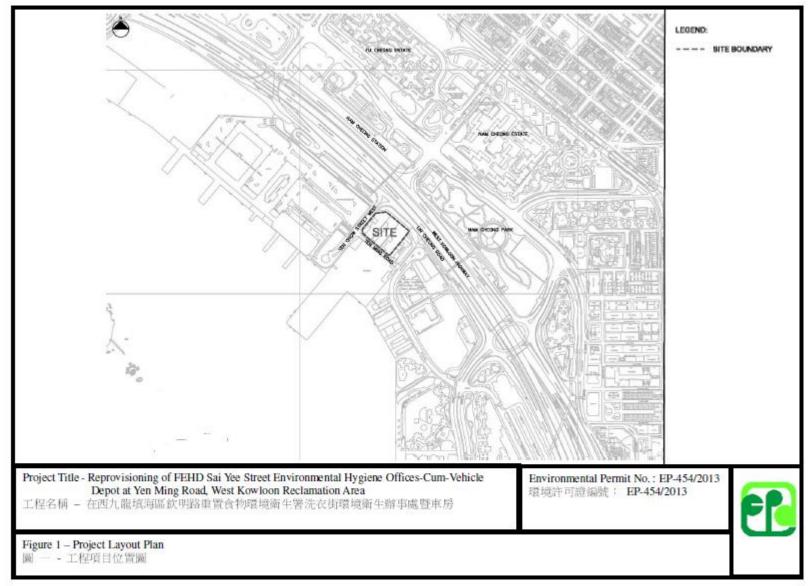
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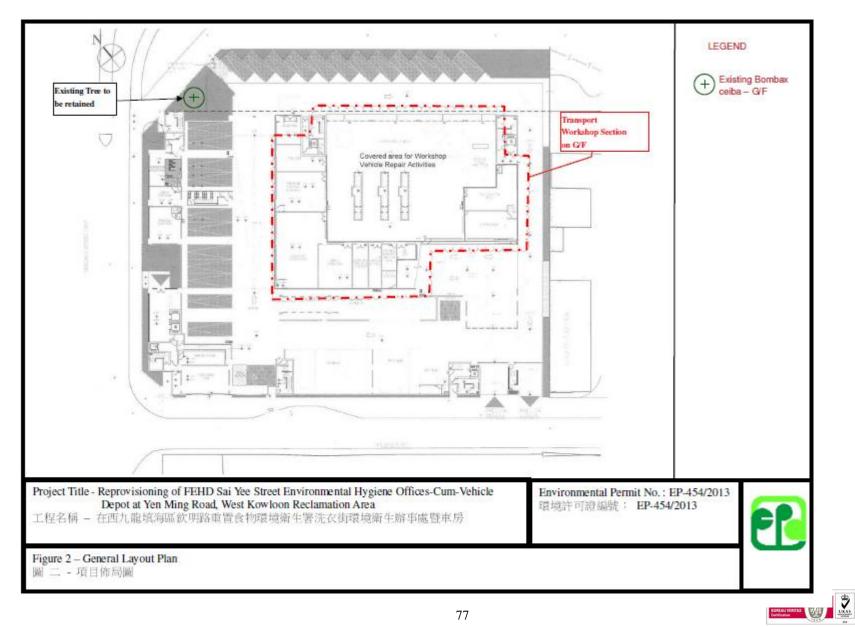
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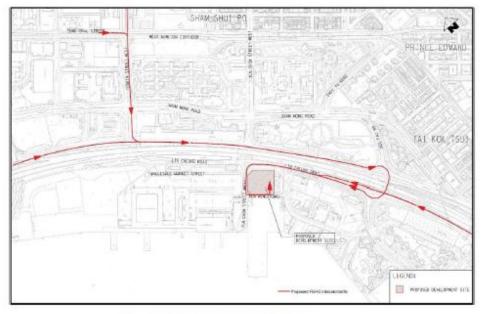




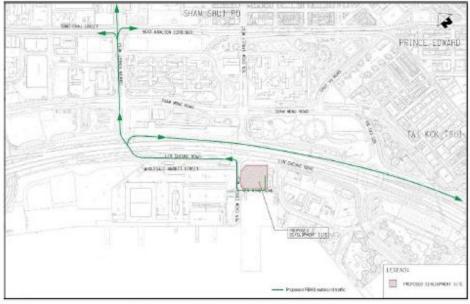
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OUT-BOUND TRAFFIC ROUTING



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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

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

Dear Sir / Madam,

Water Pollution Control Ordinance (WPCO) Junk Bay / Port Shelter / Mirs Bay / Eastern Buffer / Victoria Harbour (Phase I / II) Water Control Zone <u>Application for a licence to discharge from</u> <u>Construction Site of Reprovisioning of Food and Environmental Hygiene Department</u> <u>Sai Yee Street Environmental Hygiene Offices-Cum-Vehicle Depot at Yen Ming Road,</u> <u>West Kowloon Reclamation Area</u>

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

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

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

Thank you for your effort in protecting the environment.

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

Yours faithfully,

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

The Original WPCO Licence

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100 mmt 100 mmt BUREAU VENTAS 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

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

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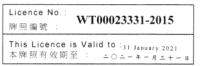


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ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署

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

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

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

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

22 January 2016

Date 日期

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

PARTA 甲部 : GENERAL TERMS 一般條款

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

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

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10 MM 10 HEAL EVENTSATION EV



SPECIFIC CONDITIONS 特別條件 PARTB 乙部 :

B1. Limitations on Discharge 排放限制

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

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

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

Range 上下限

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

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

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

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

所有監測結果須以摘要形式,每一個月/兩個月/三個月*作出紀錄,並呈交審閱。

*Delete as appropriate 將不適用者膨去

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PART C 丙 部 : STANDARD CONDITIONS 標 準 條 件

C1. The Discharge 排放

- C1.1 The discharge shall not contain polychlorinated biphenyls (PCB), polyaromatic hydrocarbon (PAH), fumigant, pesticide or toxicant, chlorinated hydrocarbons, flammable or toxic solvents, calcium carbide; any substance likely to damage the sewer or to interfere with any of the treatment processes, or to be harmful to the health and safety of any personnel engaged in the operation or maintenance of a sewerage system; waste liable to form scum or deposits in any part of the drainage or sewerage system, or the waters of Hong Kong; waste liable to form discolouration in any parts of the waters of Hong Kong; sludge, floatable substances or solids larger than 10 mm; and sludge or solid refuse of any kind. 排放不得含有多氢聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣; 會損毀污水渠結構或干擾任何處理程序的物質,或有損操作及維修排污系統人員健康及安全的任何物質;足以在排水或排污系統,或香港水域任何範圍內形成浮渣或沉積物的廢物;足以在香港水域任何範圍內形成變色的廢物;污泥、漂浮物質或體積超越10毫米的固體;及任何種類的污泥或固體垃圾。
- C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.

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

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

C2. Flow Measurement 量度流量

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

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

C3. Treatment 處理

C3.1 The Licensee shall provide necessary wastewater treatment facilities, and shall engage personnel with adequate qualification and experience to properly operate and maintain all wastewater treatment facilities at all times. Standby equipment shall be provided to guard against failure of major treatment equipment.

持牌人須提供必需的廢水處理設施,並須僱用有足夠資格及經驗的人士,時常妥善操作及保養所有廢水處 理設施。主要處理設施須配有後備裝置,以應付故障發生。

C3.2 In the event of loss of efficiency of operation, or failure of all or part of the wastewater treatment facility, the Licensee shall take all reasonable steps to the extent necessary to maintain compliance with this licence. Such steps shall remain until operation of the wastewater treatment facility is restored or an alternative method of treatment is provided.

倘若部份或整個廢水處理設施操作失靈或發生故障,持牌人須採取所有必要的合理措施,以求達到符合本 牌照的規定。此等措施須維持至廢水處理設施恢復如常操作或有其他代替的處理方法可供採用為止。

C3.3 If the wastewater treatment facilities are not properly operated and maintained to the satisfaction of the Authority, the Licensee shall take immediate and effective remedial actions as required by the Authority.

倘若廢水處理設施的操作及保養未能令監督滿意,持牌人須按監督之規定,採取即時及有效的補救行動。

C4. Disposal 棄置

Sludges, screenings, solids, oil and grease, filter backwash, or other pollutants removed in the course of treatment shall be disposed of in a proper manner^(Note b & c). 處理過程中所產生的污泥、隔濾物、固體、油脂、過濾器回洗或其他污染物,必須妥善地棄置^(MEE 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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Not	tes 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. Sameziring是否行合特別條件第 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核本的任何其他位置抽取樣本。只要在任何一個經分析的樣本中,證實任何一個測量物不符合表中所列的相應限度時,
	排放即被視為不符合特別條件第 B1 項。
(b)	An example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal. 妥善棄置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。
(c)	Proper disposal of grease trap waste includes but is not limited to employing any reputable firm or collector who will use the right equipment and dispose of the collected grease trap waste at West Kowloon Transfer Station. The updated list of grease trap waste collectors who are using the disposal service at West Kowloon Transfer Station is maintained in the EPD website and Green Restaurant website.
	妥善的隔油池廢物棄置方法包括卻不限於聘用任何信譽長好的公司/收集商使用適當的設備任四儿驅廢初轉運站業量內 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)	
	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
1.97	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. 持牌人須准許獲監督授權的人員進入處所內進行檢查、抽取樣本、審查紀錄或執行其他根據本條例第 37 及第 38 條 所授權的職務。
	(ii) Where the premises has security measures in force which would require proper identification and clearance before entry, the Licensee shall make necessary arrangements such that upon presentation of evidence of identity and of authorization, duly authorized officer(s) will be permitted to enter, without delay, for the purposes of performing duties. 倘若由於處所的保安理由而需先行鑑定來人的身份,持牌人必須作出必要的安排,以便獲授權人員在出示身份證明 及授權文件後,即可內進執行其職務而不致受延誤。
(g)	licence, apply under Section 19 of the Ordinance for a new licence. The Authority may grant the rectare of 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 西新牌照。聖譽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.
	2 months before expiry of the intence, apply under so that is of isorrespectively of the intence, apply under so that is a solution of the isorrespectively of the intence of the intence of the intence of the intence of the isorrespectively of th
(h)	Under Section 24 of the Ordinance, the Authority may by notice in writing, impose new or amended terms and conditions on this licence or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose licence has been so varied or
	cancelled may be entitled to compensation. 根據本條例第 24 條的規定,監督可以書面通知,向本牌照施加新訂或經修訂的條款及條件,或取消本牌照。根據本條例 第 25、26 及 27 條的規定,被更改或取消牌照的持牌人可能會獲得補償。
(i)	Under Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence. 根據本條例第 28 條的規定,持牌人可向監督申請更改本牌照。
(j)	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"

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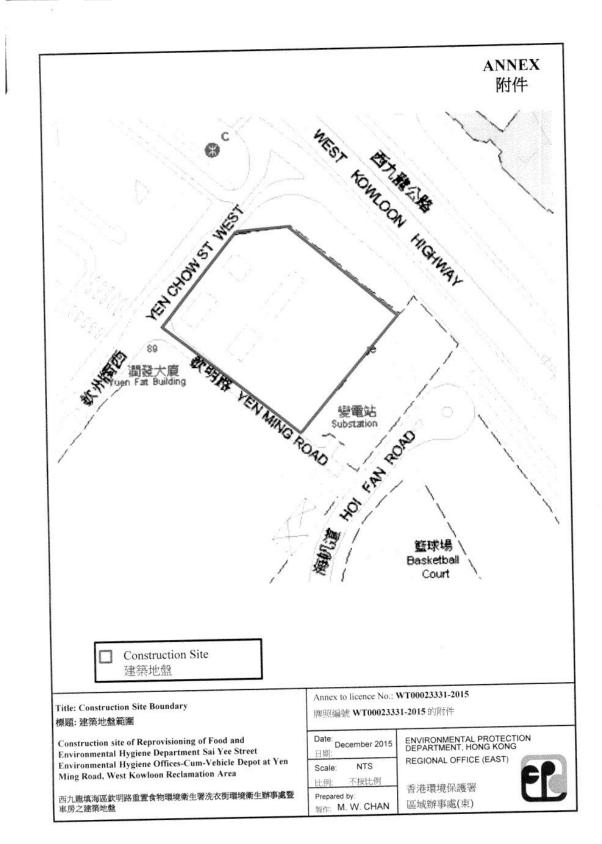


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Tel.: (852) 3563 7003 Fax: (852) 3563 7018 www.telemaxeem.com (c) Chemical Waste Producer Registeration

本著指號 Our Ref: 家函楷號 396912 電 話 Tel. No.: 2117 7539 圖文傳真 Fax No.: 2756 8588 電子郵件 E-Mail: 別 近 Homepage: http://www.epd.gov.hk/ <u>By Registered Post</u>	Environmental Protection Department Environmental Compliance Division Regional Office (East) 5th Floor, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon, Hong Kong. 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CCC. W	環境保護署 環保法規管理科 區域辦事處(東) 5巻九龍九龍海臨華街 十九號南聖商業中心五樓 ノの(EPD) 10 JAN 2015 CC KKFu/ Tele www, の人//b
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.





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	Environmental Protection Department 環境保護署							
	Waste Disposal Ordinance (Chapter 354)							
	香港法例第354章廢物處置條例							
	Waste Disposal (Chemical Waste)(General) Regulation 廢物處置(化學廢物)(一般)規例							
		Registration of Waste Producer						
F		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)						
		Address for Correspondence 通 訳 地 <u>北: FLAT 07-11, 23A/F., K.WAH CENTRE, 191 JAVA ROAD, NORTH POINT, HONG</u>						
		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,						
		$2 1 3^{-2} 6 9^{-1} 2 3 2 -1 8 is assigned to you in respect of the location or premises$						
	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)						
	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	出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						
		YEE STREET ENVIRONMENTAL HYGIENE OFFICES-CUM-VEHICLE DEPOT AT YEN						
		MING ROAD, WEST KOWLOON RECLAMATION AREA						
L								
		(CHAN Kin Ki)						
		for Director of Environmental Protection 環境保護署署長(陳健基 代行)						
		Date 15 1 2016 日期						
WAI	RNING : A	ny registered waste producer who fails to inform the Director of Environmental Protection of any						
睯	告:日	hange in his registration particulars commits an offence and is liable on conviction to a fine of \$10,000。 任何已登記的廢物產生者,若其登記資料有任何改變而不知會環境保護署署長,即屬違法,被定罪者最高罰款						
	灌	を幣10,000元。						

EPD 130

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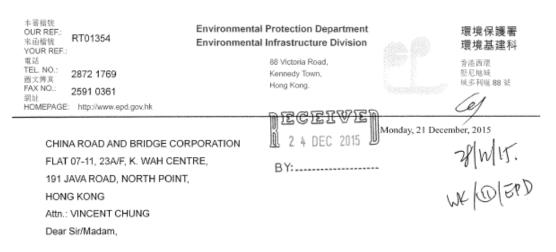


(Nov 2012)



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(d) Billing Account for Disposal of Construction Waste



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

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

Contract No.: SS D505

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

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

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

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

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

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

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

Yours faithfully,

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

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RECYCLED TATES

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(e) Construction Noise Permit

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

[reg.5(a)]

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

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

CONSTRUCTION NOISE PERMIT NO. GW-RE0704-18

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)	Twenty

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

 Date and time of commencement :
 01 November 2018
 at
 1900 hours

 Days and hours :
 0000-2400 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day not
 being a general holiday .

 This part of the permit expires on :
 28 February 2019
 at
 2400 hours

c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit is required to be kept on the construction site and made available for inspection by the Authority.

d. Other conditions imposed on the use of the powered mechanical equipment :

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

	Identification code of type of prescribed construction work	Description of type of prescribed construction work
		Nil
		it for the carrying out of the prescribed construction work: 01 November 2018 at 1900 hours
	Date and time of commencement : Days and hours : 0000-2400 hours o	01 November 2018 at 1900 hours n general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day
	being a general holiday.	
	This part of the permit expires on :	28 February 2019 at 2400 hours
c. {	of prescribed construction work descri- made available for inspection by the Au	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site
с. 4 4	of prescribed construction work descri- made available for inspection by the Au	-
с. 4 4	of prescribed construction work descri- made available for inspection by the Au	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority.
c. 4	of prescribed construction work descri- made available for inspection by the Au	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority.
c. 4 d. (of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin 	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority.
c. 4 d. (of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 d. (of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin 	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 d. (of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin 	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 d. (of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin 	hed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 4 d. 0	of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin construction noise permit or a copy the armation.	hed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 4 d. 0	of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin construction noise permit or a copy the armation.	bed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:
c. 4 4 4. 0	of prescribed construction work descri made available for inspection by the Au Other conditions imposed on the carryin construction noise permit or a copy the armation.	hed in this permit. The layout plan(s) is(are) required to be kept on the construction site thority. ag out of the prescribed construction work:

for Authority

* Delete as necessary

-2-

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表格3 噪音管制條例 (第400章) 第8(9)條

建築噪音許可證 為進行建築工程(撞撃式打樁除外) 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-RE0704-18

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 圖則是本建築嗓音許可證的一部分。

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

各項機動設備的議辦代碼 (如適用的話)	各項機動設備的說明	數目
CNP 283	潛水泵 (電動)	貳拾

b. 可使用機動設備的建築噪音許可證有效期:

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	a loce to re hour wire first to the balls wild .	42 HE HT . 0 1000 L3 12/04 142	2	
	生效日期及時間:	=	:零一八年十一月一日	下午七時
	日期及時間: 公眾假日	(包括星期日)的)	凌晨零時至晚上十二時,	公眾假日以外的任何一
	日凌晨零時至上午七時	及下午七時至晩上	:十二時。	
	此部分許可證屆滿日期	及時間:二	:零一九年二月二十八日 日期	晚上十二時 時間
	建築地盤須備有本建築 等照片須經監督認可。	桑音許可證所述每	F件機動設備的照片各一幀	,供監督随時查看;該
d .	規限使用機動設備的其体	也條件:		
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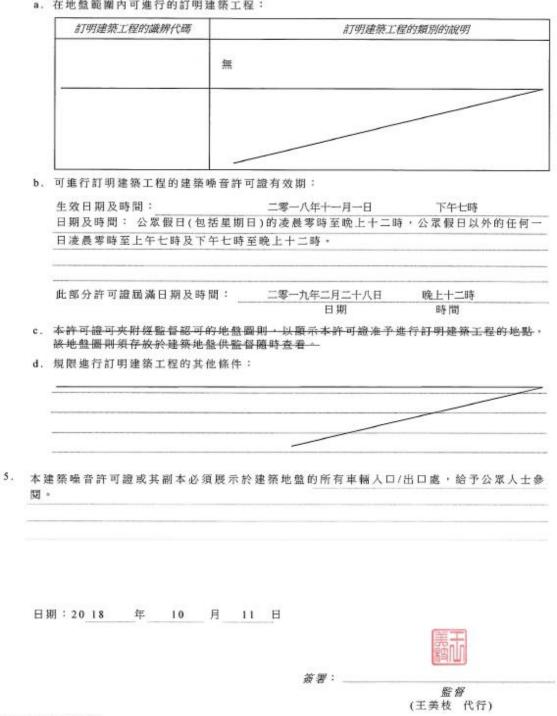
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- 4. 訂明建築工程
 - a. 在地盤範圍內可進行的訂明建築工程:



* 刪去不適用者

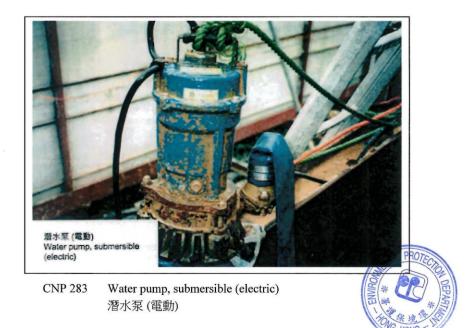
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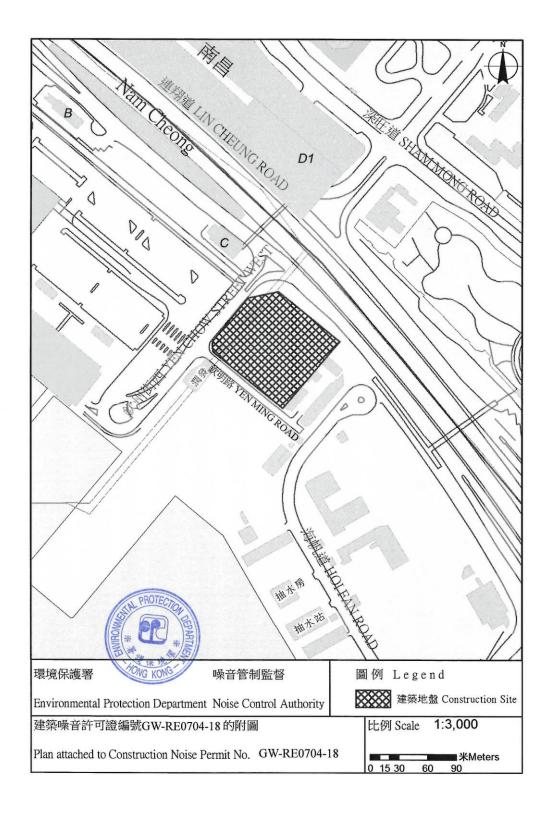


Photograph attached to Construction Noise Permit No. <u>GW-RE0704-18</u> 建築噪音許可證編號<u>GW-RE0704-18</u>的照片













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Appendix N NSR 1 School Calendar 2018-19

Sir Ellis Kadoorie	Secondary School	(West Kowloon)
Scho	ol Calendar 2018-20	10

Month	th Week Sun Mon Tue Wed Thu Fri Sat Holidays, Special Days & Examinations									
2018	week	эш	MIGH	Tue	wea	100	Fri	Sat	3	First Day of School Year
September	1	1	3	4	5	6	7	8		First Day of School Tea
(19 schol days)	2		10	11	12	13	14	15		
(ry sense anyo	3		17	18	12	20	21	22		
	4	2	24	10	26	20	28	29	25	The Day following the Mid-Autumn Festival
	-		24	10	20	61	20	67	~	The Day following the Material Testivit
	5	20		2	3	4	5	6	1	National Day
October	6	1	8	1/s	(10)	11	12	13	9,10	Sports Day (Heats), 1st Staff Development Day
(2) schol days)	7		15	16	10	18	12	20	17	Ching Yeung Festival
(av sensor days)	8	1	22	13	24	25	26	27	23	Sports Day (Finals)
	0		20	20	21	لتستنا		201	25/10-1/11	1st Term Test
						Π	2	3		
November	10	1	5	6	A	285	293	10	7, 8, 9	School Picnic, Festival of Diwali, Festival of Bhai Tika
(20 school day)	11		\$127	13	14	1A	1	17	15, 16	P6 Information Day, Parents' Night & AGM of PTA
	12	\mathbf{x}	19	20	21	22	23	24		
1 1	13	$\boldsymbol{\boldsymbol{\times}}$	26	27	28	29	30	-	26-30	ESTP Challenge Camp for S2 & S3
				-			~	1		
December	14	1	3	4	13	6	Λ	8	5.6.7	Speech Day Final Rehearsal, Half-day School, Speech Day
(14 school days)	15	1	10	11	12	13	14	15		
	16	1	17	18	19	120	21	22	20	Talent Show & Class Party
		8	24	2°	20	27	28	29	21/12-1/1	Christmas and New Year Holidays (12 days)
1 1		X	31	-						
2019	17			\checkmark	2	3	4	5	1	The First Day of January
January	18	×	(7)	(3)	0	00	(D)	12	7-21	Half-yearly Examination, Mock Examination for S6
G1 school days)	19	X	60	(5)	60	60	(i)	19	22	Post-examination Activities
	20	20	20	12	23	(24)	25	26	24	2nd Staff Development Day
1 1	21	X	28	29	30±	31			23, 25-29, 30	Discussion of Examination Papers, Friday Timetable
							1	2	1-12	Lunar New Year Holidays (12 days)
February		X	4	~~	~	\sim	8	9		
(12 school days)	22	X	11	12	13	14	15	16	13	2nd Term Commences
	23	X	18	(19)	20	21	12	23	22	S6 Graduation Day and Parents' Day
	- 24		25	26	27	28				
							1	2		
March	25	\langle	4	5	6	7	8	. 9		
(22 school days)	26	X	- 11	12	13	14	ß	<u>/ið</u>	15 & 16	Learning Celebrations and Open Days
1 1	27	X	18	19	20	21	22	23	22-29	2nd Term Test
1 1	28	24	25	26	27	28	29	30		
		X								
	29		1	2	3	4	\swarrow	6	5	Ching Ming Festival
April	- 30	1	8	9	107	11	12	13	10, 12-22	Friday Timetable, Easter Holidays (11 days)
(14 school days)		X	15	16	17	18	15	20		
1 1	- 31	X	X	23	24	25	26	27		
	32	15	29	30					29, 30	S3 TSA Oral Examination
						2	3	4	1	Labour Day
May	33	X	6	7	8	9	10	11		
(20 school days)	- 34	X	X	14	15	16*		18	13, 16, 17	Birthday of the Buddha, Friday Timetable, 3rd Staff Development Day
	35	X	20	21	22	23	24	25	1	
	36	10	27	28	29	30	31	<u> </u>		
								1		
June	37	X	3	4	5	- 567	~	8	6, 7	Festival of Eid, Tuen Ng Festival
(18 school days)	38		00	Q	02	(13)	94	15	10-25	Yearly Examination & S3 TSA Examination
	39	10	0	(18)	(19)	(20)	(\mathfrak{g})	22	26/6-2/7	Discussion of Examination Papers
	40	Z	3	(23)	26	27	28	29	10	
	-	X			~	~	~		1/7	HKSAR Establishment Day
	41		1	2	Δ	1	12	6	3-12	Post-examination Activities
July	42	/			/10	AN	<u> 1</u> 2	13	9, 10	Release of SSPA Results, Release of HKDSE Results
(10 school days)		X	<u> 13</u>	16	17	18	19	20	11, 12	S.1 Registration
		X	22	23	24	25	26	27	15, 16	Last School Day, Pre-S.1 Attainment Test
		10	29	- 30	31				16/7-31/8	Summer Vacation (47 days)
	0	Exam	ination)	Period	53	Discreti	mary Ho	lidav	\bigcirc	Collaborative Lesson Preparation and Teachers' Sharing on

Term Test Special Day Staff Development Day

ny H School Holiday Public Holiday Special Timetable

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on and Teachers' Sharing on ve Lesson Prepara Teaching Strategies (Students will leave school at 1:05 pm) No. of School Days: 190 No. of School Holidays & Discretionary Holidays: 90 + 3

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