

Environmental Protection Department

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Monthly EM&A Report For September 2019

[10/2019]

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T +852 2828 5757 F +852 2827 1823 mottmac.hk Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)
Environmental Permit No. EP-324/2008/E Condition 3.3 – Submission of Monthly EM&A Report – October 2019 for the portion of Stage 2 works under Contract No. HY/2012/06

13 November 2019 By Fax (2805 5028) & Hand

We refer to the Monthly EM&A Report – October 2019 received on 11 November 2019 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – October 2019 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is managed under Contract No. HY/2012/06.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

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Mr. Ricky Yeung

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

The construction works for this Project are delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under three works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)". The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

Pursuant to the EP (EP-324/2008/E) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 and 31 October 2019. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Site clearance
- Noise Barrier
- Excavation
- Backfilling
- Sign gantry installation
- Road resurfacing
- Landscape works

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

One (1) noise-related complaint was received on 28 October 2019 and followed up by the Environmental Team. The details of the complaint are described in Section 4.6.4 and the full investigation report is annexed in Appendix M.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site:
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are the expressways in the North East New Territories (NENT) connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links Hong Kong Island to the boundary at Shenzhen. At present, this section of Route 9 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is a dual-2 lane carriageway only. Severe congestion is a frequent occurrence during the peak periods, particularly in the Kowloon-bound direction.
- 1.1.2. The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.
- 1.1.3. The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.
- 1.1.4. The scope of the Project comprises mainly:
 - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
 - (ii) Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads:
 - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".
- 1.1.6. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for Contract No. HY/2012/06).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract No. HY/2012/06. Chiu Hing Construction & Transportation Company Limited (Chiu Hing) was commissioned as the Contractor of Contract No. 02/HY/2015. The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

- 1.1.8. AECOM Asia Co. Ltd. was commissioned by China State Construction Engineering (Hong Kong) Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Contract and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contract.
- 1.1.9. The construction phase of the Contract under the EP commenced on 21 November 2013.
- 1.1.10. According to the updated EM&A Manual of Stage 2 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 2 of the Project commenced on 21 November 2013.

1.2 Scope of Report

1.2.1 This is the seventy-third monthly EM&A Report under the Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in October 2019.

1.3 Project Organization

1.3.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06]	Environmental Officer	Michael Tsang	9277 4956	2672 2501
(China State Construction Engineering (Hong Kong) Limited)		C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-

Party	Position	Name	Telephone	Fax
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.4 Summary of Construction Works

- 1.4.1 The construction phase for the Contract under the EP commenced on 21 November 2013.
- 1.4.2 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:
 - Site clearance
 - Noise Barrier
 - Excavation
 - Backfilling
 - Sign gantry installation
 - Road resurfacing
 - Landscape works
- 1.4.3 The Construction Programme is shown in Appendix B.
- 1.4.4 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting period and forthcoming months;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA study final report; and
 - Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and Model	
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)	
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)	

2.3 Monitoring Locations

2.3.1 The monitoring station was set up at the proposed location in accordance with updated EM&A Manual. Table 2.2 describes details of the monitoring station. The locations are shown in Figure 1.3a.

Table 2.2 Locations of Impact Air Quality Monitoring Station

Location	Monitoring Station	
AM2 (SR2)	Fanling Government Secondary School	

2.4 Monitoring Parameters and Frequency

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters and Frequency

Parameter	meter Frequency	
24-hour TSP	Once every 6 days	
1-hour TSP	3 times every 6 days while the highest dust impact was expected	

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
 - (v) No furnace or incinerator flues nearby.
 - (vi) Airflow around the sampler was unrestricted.
 - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (viii) A secured supply of electricity was obtained to operate the samplers.
 - (ix) The sampler was located more than 20 meters from any dripline.
 - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
- (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

- (i) The power supply was checked to ensure the HVS works properly.
- (ii) The filter holder and the area surrounding the filter were cleaned.
- (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
- (vi) Then the shelter lid was closed and was secured with the aluminum strip.
- (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- (viii) A new flow rate record sheet was set into the flow recorder.
- On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
- (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
- (xi) The initial elapsed time was recorded.
- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.

- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
- (iii) Calibration certificate of the HVSs are provided in Appendix E.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

- (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
- (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting period

2.6.1 The schedule for environmental monitoring in October 2019 is provided in Appendix F.

2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM2 (Fanling Government Secondary School)	63.4	58.1 – 72.2	317.8	500

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM2 (Fanling Government Secondary School)	34.5	28.3 – 39.2	200.7	260

- 2.7.2 The major dust source during the monitoring was mainly from nearby traffic emission.
- 2.7.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting period.
- 2.7.4 The event action plan is annexed in Appendix J.
- 2.7.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

3.3.1 Monitoring stations M2 and M3 were set up at the proposed locations in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
M2	West Tai Wo	1.2m from the ground floor free-field of the Residential
M3	Fanling Government Secondary School	1m from the exterior of the roof top façade of the school

3.4 Monitoring Parameters and Frequency

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. Leq, L10 and L90 would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) Façade measurement was made at monitoring station M3, while free-field measurement was made at monitoring station M2.
- (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at monitoring station M2.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30-minutes)}$ during non-restricted hours i.e. 07:00-1900 on normal weekdays; $L_{eq(5-minutes)}$ during restricted hours i.e. 19:00-23:00 and 23:00-07:00 of normal weekdays, whole day of Sundays and Public Holidays
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting period

3.6.1 The schedule for environmental monitoring in October 2019 is provided in Appendix F.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	Leg (30 mins)	L _{eq (30 mins)}	L _{eq (30 mins)}
M2* (West Tai Wo)	69.2	67.7 – 70.6	75
M3 [#] (Fanling Government Secondary School)	65.1	60.1 – 67.4	65/70

^{*+3}dB(A) Façade correction included

[#] Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 3.7.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 3.7.3 Major noise sources during noise monitoring in the reporting period were mainly road traffic noise.
- 3.7.4 The event action plan is annexed in Appendix J.

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting period, 4 site inspections were carried out respectively on 8, 15, 24 and 29 October 2019 for the Contract. While no specific observation was recorded, recommendations on remedial actions were given to the Contractor for precautionary purpose.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections are described below:

Contract No. HY/2012/06

Air Quality

- 4.1.4 The Contractor was reminded to replace the decolored NRMM label at SA346.
- 4.1.5 Stockpile stored without cover was observed at SA310. The Contractor was advised to cover the stockpile on site for preventing dust spread.
- 4.1.6 The haul road at SA310 was observed dry. The Contractor was advised to implement dust control measure for dust suppression.

Noise

4.1.7 No adverse observation was identified in the reporting period.

Water Quality

4.1.8 Stockpile placed near to river was observed at SA310. The Contractor was advised to provide a blockage on the boundary of stockpile to prevent the silt enter the river.

Chemical and Waste Management

- 4.1.9 The Contractor was reminded to provide an entire surrounding for the construction material storage area at SA310.
- 4.1.10 Improper storage of construction waste was observed at SA342. The Contractor was advised to sort the construction waste on site and store in a proper area.

Landscape and Visual Impact

4.1.11 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.12 No adverse observation was identified in the reporting period.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 Contract No. HY/2012/06 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.
- 4.2.2 As advised by the Contractor of Contract No. HY/2012/06, 570 m³ of inert C&D material was generated in the reporting month (172 m³ disposed of as public fill to Tuen Mun 38, 306 m³ of inert C&D materials was reused in other projects and 92 m³ was broken concrete). For C&D wastes, 150 m³ of general refuse was disposed of at NENT landfill, 102 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling Contractors, and 0 kg of chemical wastes was collected by licensed Contractors in the reporting period.
- 4.2.3 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.1.

Table 4.1 Summary of Waste Flow Table for Contract No. HY/2012/06

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	172 m ³	Tuen Mun 38
Broken concrete	92 m³	Tuen Mun 38
C&D wastes disposed as general refuse	150 m ³	NENT Landfill
Paper/cardboard packaging	102 kg	Recycling Facilities
Plastics	0 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	306 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

4.2.4 The Contractors were advised to maintain on-site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for Stage 2 of the Project and valid in the reporting period is summarized in Table 4.2.

Table 4.2 Summary of Environmental Licensing and Permit Status

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Nemarks
EIAO	Environment al Permit	EP-324/2008/E	26/01/2017	N/A	HyD	
WPCO	Discharge License	WT-00031556- 2018	20/09/2018	30/09/2023	CSHK	
WICO	(Site)	WT00027968- 2017	22/05/2017	31/05/2022	Chiu Hing	
WDO	Chemical Waste Producer Registration	5213-722- C3822-01	05/09/2013	N/A	CSHK	Chemical waste produced in Contract HY/2012/06
WDO	Billing Account for Disposal of	7017860	N/A	N/A	CSHK	Waste disposal in Contract HY/2012/06
WDO	Construction Waste	7024392	N/A	N/A	Chiu Hing	Waste disposal in Contract 02/HY/2015
	Notification Under Air Pollution	361991	15/07/2013	N/A	CSHK	
APCO	Control (Constructio n Dust) Regulation	414360	08/03/2017	N/A	Chiu Hing	
		GW-RN0351-19	5-Jun-2019	13-Oct-2019	CSHK	NB, Zone 1 Laying of Cross Road Duct
		GW-RN0412-19	25-Jun-2019	31-Oct-2019	CSHK	Zone 1 & 2 Installation of Streetlight Pole Road Marking Alternation
NCO	Construction Noise	GW-RN0590-19	28-Aug- 2019	31-Oct-2019	CSHK	Zone 1 & 2 Road Marking Alternation
	Permit	GW-RN0424-19	25-Jun-2019	31-Oct-2019	CSHK	Zone 1&2A Road Resurfacing
		GW-RN0570-19	25-Aug- 2019	31-Oct-2019	CSHK	Zone 1 & 2 Sign Gantry Installation
		GW-RN0427-19	6-Jul-2019	31-Oct-2019	CSHK	Zone 2B Road resurfacing

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Remarks
						between CH21.7 and CH22.5
		GW-RN0436-19	26-Jun-2019	31-Oct-2019	CSHK	Zone 4 Tree Felling
		GW-RN0560-19	12-Aug- 2019	8-Oct-2019	CSHK	Zone 4 Road Marking Alternation betweem CH23.8 - CH24.2
		GW-RN0602-19	26-Aug- 2019	25-Oct-2019	CSHK	Zone 4 Laying of cross road duct at Pak Wo Road
		GW-RN0600-19	26-Aug- 2019	25-Oct-2019	CSHK	Pak Wo Road, Zone 4 Road Resurfacing
		GW-RN0601-19	26-Aug- 2019	25-Oct-2019	CSHK	NB, Zone 4 Road Marking Alternation betweem CH23.4 - CH24.1
		GW-RN0613-19	2-Sep-2019	31-Oct-2019	CSHK	SB, Zone 4 Road Resurfacing CH23.4 - CH24.3
		GW-RN0659-19	24-Sep-2019	31-Oct-2019	CSHK	NB, near Hong Lok Yuen Road Resurfacing CH20.6 - CH21.7
		GW-RN0707-19	16-Oct-2019	20-Dec- 2019	CSHK	Zone 1 & 2 Road Resurfacing for Tai Wo Service Road West
		GW-RN0711-19	16-Oct-2019	18-Dec- 2019	CSHK	Zone 1 & 2a Installation of Street Light Pole
		GW-RN0730-19	17-Oct-2019	31-Dec- 2019	CSHK	NB, Zone 4 between CH24.0 & CH 24.1 Installation of Noise Barrier Panel

Statutory	License/	License or	Valid I	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW-RN0728-19	19-Oct-2019	18-Dec- 2019	CSHK	SN, Zone 2 Erection of Steel Frame for THFB & TWFB
		GW-RN0771-19	30-Oct-2019	7-Nov-2019	CSHK	Pak Wo Road, Zone 4 Road Resurfacing
		GW-RN0774-19	30-Oct-2019	29-Dec- 2019	CSHK	SB, Zone 4 Modification of Manhole Cover and Road Pavement
		GW-RN0776-19	30-Oct-2019	2-Jan-2020	CSHK	SB, Zone 4 Modification of Sign Gantry (G36)

4.4 Implementation Status of Environmental Mitigation Measures

4.4.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C.

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 4.5.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 4.5.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 No notification of summons and successful prosecution was received in the reporting period.
- 4.6.3 One (1) noise-related complaint was received on 28 October 2019 and followed up by the Environmental Team. The details of the complaint are described in Section 4.6.4 and the full investigation report is annexed in Appendix M.
- 4.6.4 The EPD received a complaint on 28 October 2019. The complaint was referred to the Environmental Team by the Contractor on 28 October 2019.
- 4.6.5 The complainant was regarded to the use of powered mechanical equipment not in accordance with the conditions stipulated in the Construction Noise Permit (CNP) GW-RN0602-19 in Pak Wo Road near Fanling Highway on 24 September 2019.
- 4.6.6 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Months

- 5.1.1 The major construction works for Contract No. HY/2012/06 in November 2019 will be:
 - Site clearance
 - Noise Barrier
 - Excavation
 - Backfilling
 - Sign gantry installation
 - Road resurfacing
 - Landscape works

5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in November 2019:
 - Properly store and label oils and chemicals on site;
 - Chemical, chemical waste and waste management;
 - Collection of construction waste should be carried out regularly;
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Exposed slopes should be covered up properly if no temporary work will be conducted;
 - Quieter powered mechanical equipment should be used;
 - Suppress dust generated from excavation activities and haul road traffic; and
 - Tree protective measures for all retained trees should be well maintained.

5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in November 2019 is provided in Appendix F.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of the Contract commenced on 21 November 2013.
- 6.1.2 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.3 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 6.1.4 4 environmental site inspections were carried out in October 2019. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.5 No notification of summons and successful prosecution was received in the reporting period
- 6.1.6 One (1) noise-related complaint was received on 28 October 2019 and followed up by the Environmental Team. The details of the complaint are described in Section 4.6.4 and the full investigation report is annexed in Appendix M.

6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting period, the following recommendations on remedial actions were provided to the Contractor for precautionary purpose:

Contract No. HY/2012/06

Air Quality Impact

- The Contractor was reminded to replace the decolored NRMM label on site.
- The Contractor was advised to cover the open stockpile on site for preventing dust spread.
- The Contractor was advised to implement dust control measure on haul road for dust suppression.

Noise Impact

No adverse observation was identified in the reporting period.

Water Quality Impact

 The Contractor was advised to provide a blockage on the boundary of stockpile near to river to prevent the silt enter the river.

Chemical and Waste Management

- The Contractor was reminded to provide an entire surrounding for the construction material storage area on site.
- The Contractor was advised to sort the construction waste on site and store in a proper area.

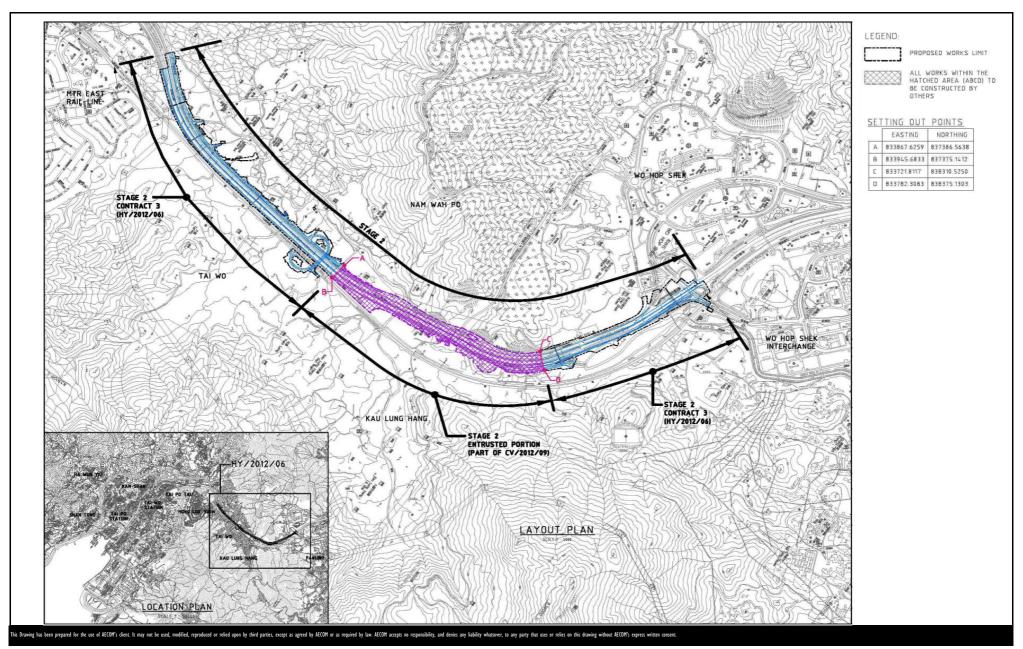
Landscape and Visual Impact.

No adverse observation was identified in the reporting period.

Miscellaneous

No adverse observation was identified in the reporting period.

FIGURES



CONTRACT NO. HY/2012/06

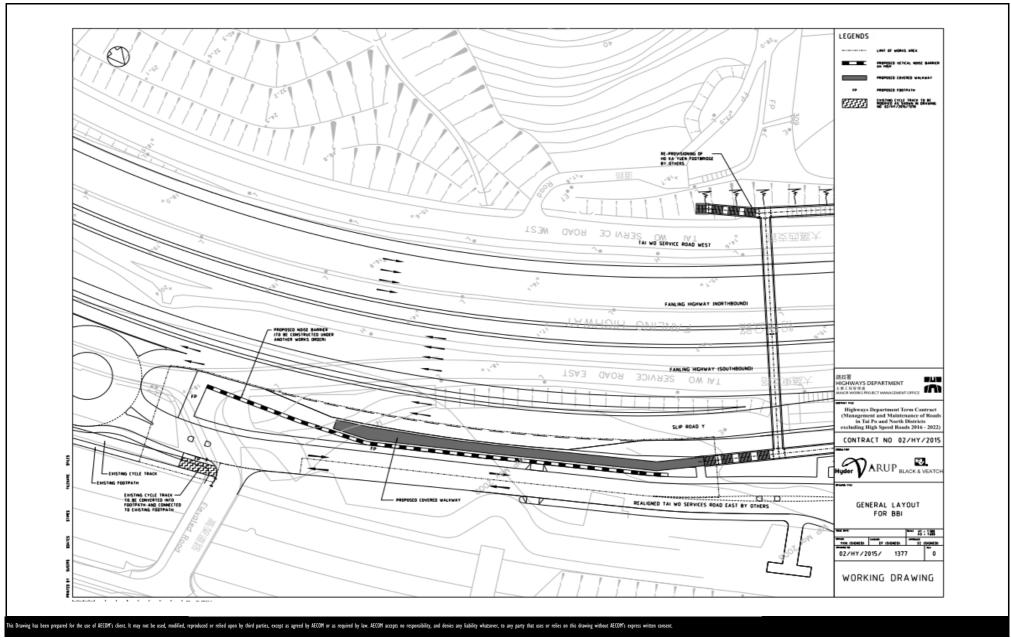
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Layout Plan

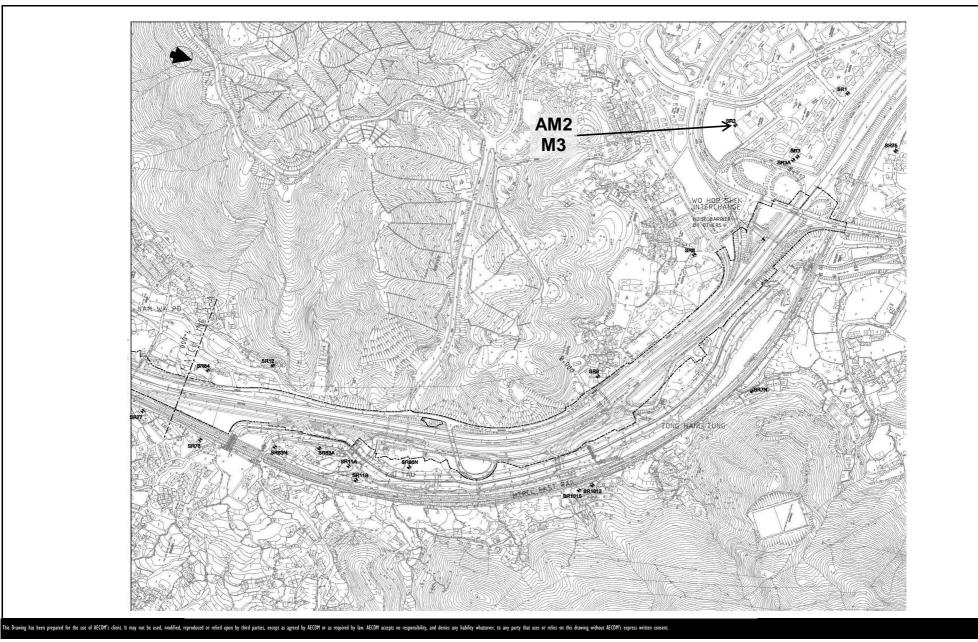
Date: Dec 2013 Figure 1.1



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND

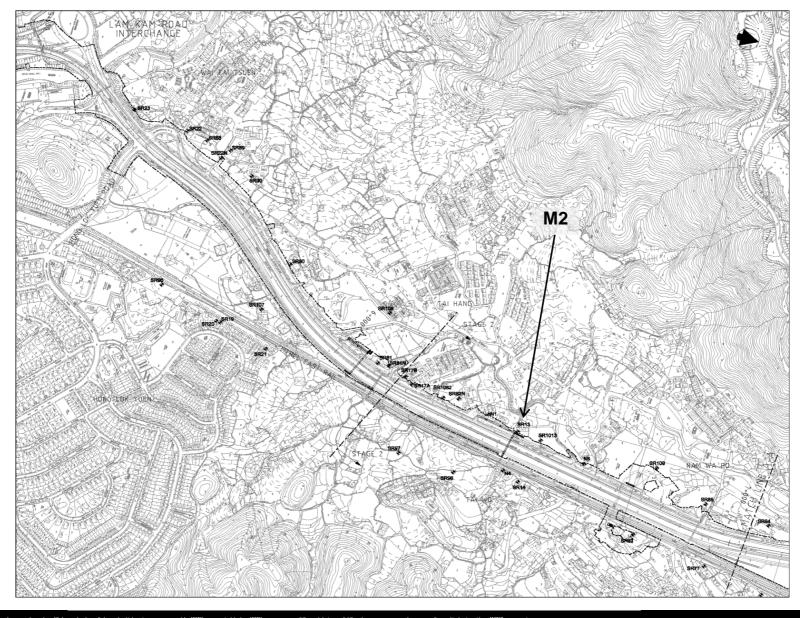




CONTRACT NO. HY/2012/06
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

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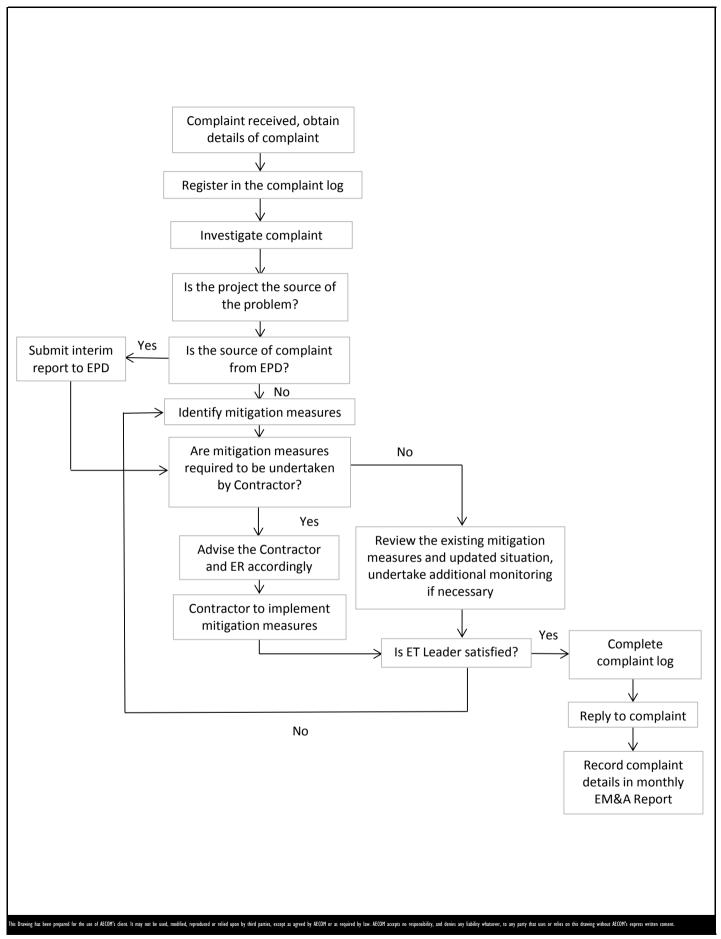
WIDENING OF FANLING HIGHWAY

CONTRACT NO. HY/2012/06

- TAI HANG TO WO HOP SHEK INTERCHANGE



Date: Dec 2013 Figure 1.3b



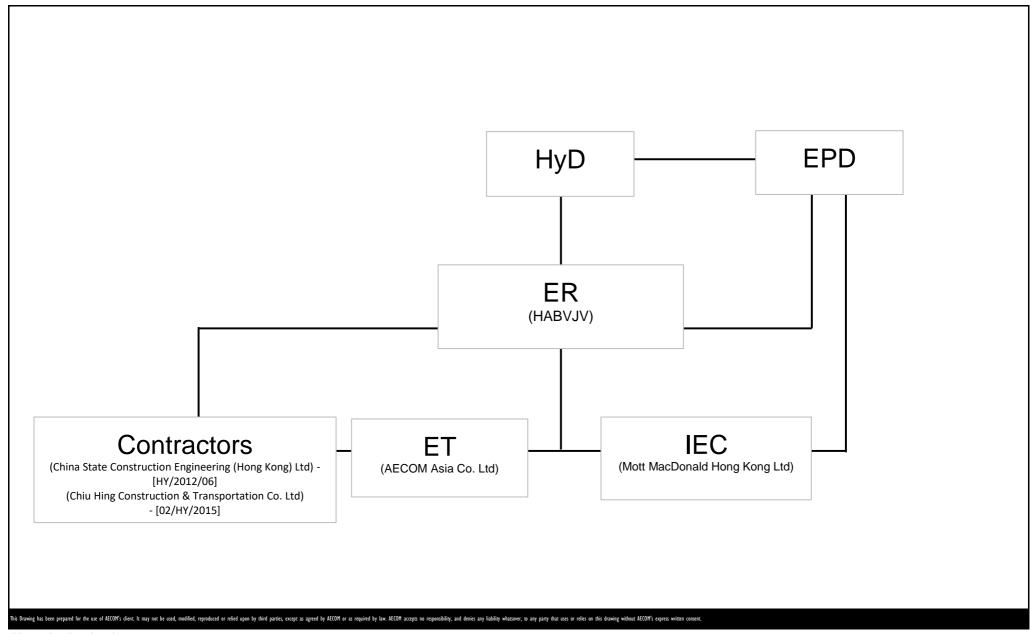
CONTRACT NO. HY/2012/06
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE



Project No.: 60307376 Date: Dec 2013 Figure 4.1

APPENDIX A PROJECT ORGANIZATION STRUCTURE



CONTRACT NO. HY/2012/06

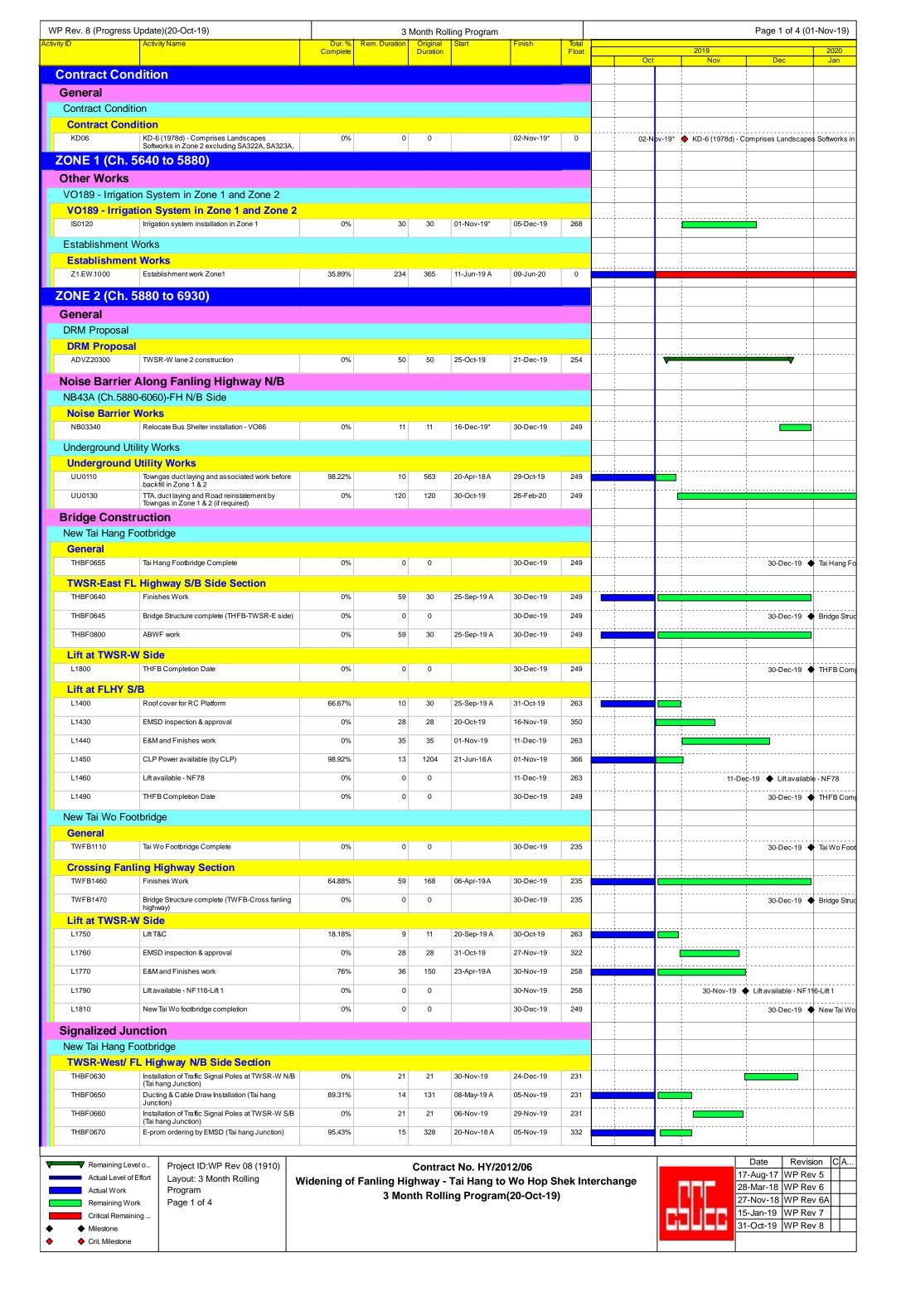
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE



Project No.: 60307376 Date: Apr 2017 Appendix A

APPENDIX B CONSTRUCTION PROGRAMMES



Rev. 8 (Progress Upda	ate)(20-Oct-19) tivity Name	Dur. %	Rem. Duration		Olling Program Start	Finish	Total				Page 2 of 4 (01-Nov
AC	arty Hallio	Complete	Rem. Duration	Duration		1 111511	Float			2019	20
THBF0680 Du	cting & cable draw inspection by EMSD (Tai	0%	6	6	06-Nov-19	12-Nov-19	270		Oc	Nov	Dec J
ha	ng Junction) acting & cable draw rectification (Tai hang	0%	12		13-Nov-19	26-Nov-19	270	ļ	L		-
Ju	nction)								: 		-
	CW cable installation & connection (Tai hang nction)	0%	6	6	27-Dec-19	03-Jan-20	246		! !		—
	ISD cable & equipment installation (Tai hang nction)	0%	21	21	27-Dec-19	21-Jan-20	231		+ ! !		
WSR-West Con	,								1 1 1		
Drainage & Road W									1 1 1		1
Ch 5880-6740	UIKS								1 1 1		1
	(CH5880-6930) : New TWSR- West Road	0%	0	0		21-Dec-19	254				21-Dec-19 ◆ Z2 (CH58
wo	rks (2 lanes) complete				07.0					<u></u>	
RDZ20170 Z2	: New TWSR-Westroad Works (lane 2)	0%	50	50	25-Oct-19	21-Dec-19	254		! !		1
Other Works									1		
TCSS Works									1 1 1		1
Civil Provision fo	r TCSS Works								1 1 1		
	0 for CCTV	0%	14	14	31-Dec-19	16-Jan-20	235		L		
TCSS2180 Pil	lar box, isolator & associated duct work - PL204	0%	16	16	21-Oct-19	07-Nov-19	292		: 		
for	G30 & G55										
	lar box, isolator & associated duct work - PL205 G54 & M10	0%	16	16	21-Oct-19	07-Nov-19	292		! ! !	1	
	lar box, isolator & associated duct work - PL206 G32	0%	16	16	21-Oct-19	07-Nov-19	292				
	vil Provision for TCSS works available (Zone 2)	0%	0	0		07-Nov-19	292		L	07-Nov-19 ♦ Civil Provisi	on for TCSS works available (
C54									! !		
G54 TCSS2120 Sig	gn Gantry Erection - G54	68%	8	25	04-Sep-19 A	29-Oct-19	300		L		-
	•	68%	8	∠5	0 4 -3ер-19 А	29-00F19	300		! !		
	system in SA328 and SA329								1		
VO184 - Irrigation	System in SA328 and SA329									<u></u>	
IS0140 Irri	gation system installation in SA328 and SA329	34.69%	32	49	04-Sep-19 A	26-Nov-19	276			!	
VO189 - Irrigation S	system in Zone 1 and Zone 2								1 1 1		
	System in Zone 1 and Zone 2								 	1	
	gation system installation in Zone 2	34.69%	32	49	04-Sep-19 A	26-Nov-19	276		ļ 		
	,	2070	<u></u>	-	-11				! !		
Landscape Softwork									1 1 1 1		1
Landscape Works					1				 	<u></u>	
Z2.LW.1000 La	ndscape soft work Zone2	62.5%	12	32	25-Sep-19 A	02-Nov-19	0				1
Establishment Worl	(S								 		1 1 1
Establishment Wo	orks								1 1 1		1
Z2.EW.1000 Es	tablishment work Zone2	0%	365	365	02-Nov-19	01-Nov-20	0		<u>-</u>		
ai Lau in Tai Ha									 	1	
PL01050 Pa	i Lau Superstructure	12.31%	57	65	07-Oct-19A	27-Dec-19	210				
PL01070 Ma	terial submission approval	0%	30	30	19-Oct-19 A	23-Nov-19	192		1 1 1		
PL01080 Ma	terial Order & delivery on site	0%	45	45	25-Nov-19	18-Jan-20	192				
Pourth Duffor Zo	no 4 (CD74) (within Zono (WCh C74	0.4- 0020						1		
	ne 1 (SBZ1) (within Zone 2	2)(Cn.674	U to 6930)					1 1 1		1
Bridge Construc	tion								! !		1
Kau Lung Hang Veh	nicular Bridge								! ! !		1
KLH Bridge - Wes	t Ramp								! !		
KLH.1290 W	est Ramp - Planting	0%	21	21	15-Nov-19*	09-Dec-19	265				
KLH Bridge - Dec	k 1								1 1 1		
	ck 1 - Planting	0%	21	21	15-Nov-19	09-Dec-19	265		 !		<u>-</u> ;
KLH Bridge - Dec		201	0.1	04	15 Nov. 10	00 Dec 40	265		- 		<u> </u>
	ck 3 - Planting	0%	21	21	15-Nov-19	09-Dec-19	265		! ! !		
VI U Delder E	D										
KLH Bridge - East	Ramp				1	00 D	265	[
	st Ramp - Planting	0%	21	21	15-Nov-19	09-Dec-19			:		1
KLH.3590 Ea	st Ramp - Planting	0%	21	21	15-Nov-19	09-Dec-19			i	1	1
KLH Bridge - Stai	st Ramp - Planting	75.61%	21		15-Nov-19	31-Oct-19	268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1	st Ramp - Planting rcase S1 - Roof steel frame installation	75.61%	10	41	11-Sep-19 A	31-Oct-19			 		
KLH.3590 Ea KLH Bridge - Stai S1 Z2.KLH.1500 S1 Z2.KLH.1750 S1	st Ramp - Planting rcase S1 - Roof steel frame installation - Corrugated steel roof	75.61% 0%	10	41	11-Sep-19 A 01-Nov-19	31-Oct-19 21-Nov-19	268				
KLH.3590 Ea KLH Bridge - Stai S1 Z2.KLH.1500 S1 Z2.KLH.1750 S1	st Ramp - Planting rcase S1 - Roof steel frame installation	75.61%	10	41	11-Sep-19 A	31-Oct-19					
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1	st Ramp - Planting rcase S1 - Roof steel frame installation - Corrugated steel roof	75.61% 0%	10	41 18 12	11-Sep-19 A 01-Nov-19	31-Oct-19 21-Nov-19	268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works	75.61% 0% 0%	10 18 12	41 18 12	11-Sep-19 A 01-Nov-19 22-Nov-19	31-Oct-19 21-Nov-19 05-Dec-19	268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Work	st Ramp - Planting rcase S1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works	75.61% 0% 0% 0%	10 18 12 12	41 18 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19	268 268 268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road World Bridge Ro	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works	75.61% 0% 0%	10 18 12	41 18 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19	31-Oct-19 21-Nov-19 05-Dec-19	268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Word Z2.KLH.2040 La Lift at TWSR-W Si	st Ramp - Planting rcase S1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB	75.61% 0% 0% 0%	10 18 12 12 12	41 18 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19	268 268 268 273				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Word Z2.KLH.2040 La Lift at TWSR-W Si	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works	75.61% 0% 0% 0%	10 18 12 12	41 18 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19	268 268 268				
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 S1 Z2.KLH.1760 S1 S1 Z2.KLH.1770 S1 S1 Bridge Road World Carrell La La Lift at TWSR-W S L01130 Fire	st Ramp - Planting rcase S1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB	75.61% 0% 0% 0%	10 18 12 12 12	41 18 12 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19	268 268 268 273		29-00	-19 ♦ Lift available - NF1	17-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 S1 Z2.KLH.1760 S1 S1 Z2.KLH.1770 S1 S1 Bridge Road Wor Z2.KLH.2040 La Lift at TWSR-W S1 L01130 Fir L01150 Lift Lift	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB ide iishes work available - NF117-Lift 1	75.61% 0% 0% 0% 78.66%	10 18 12 12 35	41 18 12 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19	268 268 268 273		29-00	2-19 ♦ Lift available - NF1	77-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Word Z2.KLH.2040 La Lift at TWSR-W SI L01130 Fir L01150 Lift Bignalized Junct	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB ide iishes work available - NF117-Lift 1	75.61% 0% 0% 0% 78.66%	10 18 12 12 35	41 18 12 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19	268 268 268 273		29-00	Lift available - NF1	17-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Word 22.KLH.2040 La Lift at TWSR-W S L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Veh	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k Indecape work of KLHVB Ide Iishes work I available - NF117-Lift 1 Ion Inicular Bridge	75.61% 0% 0% 0% 78.66%	10 18 12 12 35	41 18 12 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19	268 268 268 273		29-00	Lift available - NF1	17-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 S1 Z2.KLH.1760 S1 S1 Z2.KLH.1770 S1 S1 Bridge Road World State Control La Lift at TWSR-W Sinch Louis Louis L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Veh KLH Bridge - West	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB ide iishes work available - NF117-Lift 1 ion iicular Bridge t Ramp	75.61% 0% 0% 78.66% 95.06% 0%	10 18 12 12 35 8 0	18 12 12 12 164 162 0	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19 29-Oct-19 29-Oct-19	268 268 268 273 300 300		29-00	2-19 ♦ Lift available - NF1	77-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Wor Z2.KLH.2040 La Lift at TWSR-W S L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Ver KLH Bridge - Wes Z2.KLH.1032 Ins	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k Indecape work of KLHVB Ide Iishes work I available - NF117-Lift 1 Ion Inicular Bridge	75.61% 0% 0% 0% 78.66%	10 18 12 12 35	41 18 12 12 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19	268 268 268 273		29-00	2-19 ♦ Lift available - NF1	17-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Wor Z2.KLH.2040 La Lift at TWSR-W S L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Ver KLH Bridge - Wes Z2.KLH.1032 [ks] Z2.KLH.1052 [hs]	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB ide nishes work available - NF117-Lift 1 ion nicular Bridge tt Ramp tallation of Trafic Signal Poles at TWSR-W N/B LHVB) tallation of Trafic Signal Poles at TWSR-W S/B	75.61% 0% 0% 78.66% 95.06% 0%	10 18 12 12 35 8 0	18 12 12 12 164 162 0	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19 29-Oct-19 29-Oct-19	268 268 268 273 300 300		29-00	Lift available - NF1	17-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Worl Z2.KLH.2040 La Lift at TWSR-W S L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Veh KLH Bridge - Wes Z2.KLH.1032 Ins (KI Z2.KLH.1052 Ins (KI	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k Indecape work of KLHVB Idecape work Idecape wor	75.61% 0% 0% 78.66% 95.06% 0%	10 18 12 12 35 8 0	164 162 0	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A 20-Mar-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19 29-Oct-19 29-Oct-19	268 268 268 273 300 300		29-Oc	2-19 ♦ Lift available - NF1	17-Lift 1
KLH 3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Worl Z2.KLH.2040 La Lift at TWSR-W Si L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Veh KLH Bridge - Wes Z2.KLH.1032 Ins (KI Z2.KLH.1052 Ins (KI Z2.KLH.1082 Du	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k Indection of KLHVB idectication of Trafic Signal Poles at TWSR-W N/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB) Intertion of Trafic Signal Poles at TWSR-W S/B LHVB	75.61% 0% 0% 78.66% 95.06% 0% 0% 50%	10 18 12 12 35 8 0	164 162 0 21 21 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A 20-Mar-19 A 14-Nov-19 21-Oct-19 19-Oct-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19 29-Oct-19 29-Oct-19 13-Nov-19 26-Oct-19	268 268 268 273 300 300 245 245 245		29-00	2-19 ♦ Lift available - NF1	77-Lift 1
KLH.3590 Ea KLH Bridge - Stai Z2.KLH.1500 S1 Z2.KLH.1750 S1 Z2.KLH.1760 S1 Z2.KLH.1770 S1 Bridge Road Wor Z2.KLH.2040 La Lift at TWSR-W S L01130 Fir L01150 Lift Signalized Junct Kau Lung Hang Veh KLH Bridge - Wes Z2.KLH.1032 Ins (K) Z2.KLH.1052 Ins Z2.KLH.1082 DL Z2.KLH.1092 PC	st Ramp - Planting rcase \$1 - Roof steel frame installation - Corrugated steel roof - Handrail - Lighting & finishes works k ndscape work of KLHVB ide nishes work available - NF117-Lift 1 ion nicular Bridge t Ramp tallation of Trafic Signal Poles at TWSR-W N/B LHVB) tallation of Trafic Signal Poles at TWSR-W S/B LHVB)	75.61% 0% 0% 78.66% 95.06% 0% 0%	10 18 12 12 35 8 0	164 162 0 21 21 12	11-Sep-19 A 01-Nov-19 22-Nov-19 22-Nov-19 23-Apr-19 A 20-Mar-19 A	31-Oct-19 21-Nov-19 05-Dec-19 05-Dec-19 29-Nov-19 29-Oct-19 29-Oct-19 13-Nov-19	268 268 268 273 300 300 245 245		29-00	≥-19 ♦ Lift available - NF1	17-Lift 1

Rev. 8 (Progress	Activity Name	Dur. % R	3 IV	Original	Iling Program Start	Finish	Total					Page 3 of 4	
טו	Activity Name	Complete	tem. Duration	Duration	Start	Finish	Float		Oc		2019 Nov	Dec	2020 Jan
Z2.KLH.1112	Traffic Signal Installation complete (KLHVB)	0%	0	0		04-Jan-20	245				1407	04-Jai	
orth Buffer	Zone 2 (NBZ2) (within Zone 4) (Ch. 7925	to 8100						1		 	 	
Bridge Const									1		1	1	
New Ho Ka Yue									1 1 1		1 1 1		
TWSR-West/ F	FL Highway N/B Side Section								1		1		
HKY1520	VO11 - slope improvement work	0%	45	45	21-Nov-19	15-Jan-20	236			Ī			
ONE 4 (Ch.	7925 to 8700)								1		1	1	
Noise Barrier	Along TWSR-West and Laying	New Utilitie	S						1		1	1	
Underground Ut	ility Works								1		1	 	
DN450 DI Wate	ermain "A" (Ch 1989-2529)										! ! !		
DI0220	DN450 DI watermain laying at TWSR-W (CHA 2070)	20%	12	15	27-Sep-19 A	02-Nov-19	236	_			<u> </u>		
DI0240	DN450 DI watermain laying at TWSR-W (CHA 2370)	0%	15	15	04-Nov-19	20-Nov-19	236						
Bridge Const	ruction								1		i i i	 	
*	hek Pedstrian & Cycle Bridge								1		1	1	
General	lui ii a i a i a i a i a i a i a i a i a	901	ا م			10.5	0.50		; ;		; ; ;		
WHS1110	Wo Hop Shek Bridge Complete	0%	0	0		16-Dec-19	259		1		1	16¦Dec-19 ◆ Wo	Hop Shek Br
	FL Highway N/B Side Section	07.500/	40	204	40 1.140 4	40 Dec 40	050		<u> </u> 		<u>.</u> 		
WHS1420	Ramp Finishes Work	87.56%	49	394	13-Jul-18 A	16-Dec-19	259				<u> </u>		
WHS1430	Bridge Structure complete (WHS-TWSR-W side)	0%	0	0		16-Dec-19	259		1			16-Dec-19 ◆ Brid	dge Structure
	onal Retaining Wall in Zone 4 Near at 0	Grade Cycle T	rack and Fo	ootpath	at WHS Brid	lge			1		1	1	
Cycle Track WHS1560	Retaining Wall construction	0%	24	24	14-Nov-19*	11-Dec-19	116		!	ļ			
WHS1570		0%	10			23-Dec-19			 	ļ			
	Concrete Footing for railing			10	12-Dec-19		116			ļ	 		
WHS1580	Concrete Footing for Expressway boundary fence	0%	10	10	24-Dec-19	07-Jan-20	116	ļ	 	<u></u>	! ! !	}	
WHS1590	300 U-channel	0%	12	12	08-Jan-20	21-Jan-20	164						
Footpath									ļ 		<u> </u>		
WHS2150	Concrete Footing for railing	0%	15	15	08-Jan-20	24-Jan-20	116						
WSR-West C									1			1	
Drainage & Roa									1		1	1	
TWSR-West/ F	TWSR -W Road Works rectification	0%	18	18	04 Nev 40	11 Dec 10	263		<u> </u> 	ļ	¦ ¦ <u>-</u>		
KDZ41100	TVV SK -VV KOdu VVOIKS TECHIICAHOTI						203						
Drainage & Roa	way Construction ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work	73.63%	24	91	21-Nov-19 20-Jun-19A	11-Dec-19	284						
Drainage & Roa TWSR-West/ F	nd Works FL Highway N/B Side Section												
Drainage & Roa TWSR-West/ F RDZ41170 Other Works	nd Works FL Highway N/B Side Section												
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works	ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work												
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works	nd Works FL Highway N/B Side Section												
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted)	73.63%	24	91	20-Jun-19A	16-Nov-19	284						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180	ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work nstruction Works	73.63%	24	91	20-Jun-19A	16-Nov-19	284						
TWSR-West/ FRDZ41170 Ther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio	ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works	73.63%	24	91	20-Jun-19A 21-Oct-19	16-Nov-19	284						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Pastruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV	73.63%	0	91	20-Jun-19A 21-Oct-19 02-Jan-20*	21-Oct-19	308						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2160	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207	73.63% 0% 0%	0	91 0 14	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19	21-Oct-19 21-Oct-19 17-Jan-20 05-Nov-19	308						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2160 TCSS2170	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35	73.63% 0% 0% 0% 0%	0 14 14 14 14	91 0 14 14	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19	308						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2230	ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51	73.63% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30	91 0 14 14 14 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 06-Nov-19* 11-Dec-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20	308 0 -4 -4 -4 204						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2230 TCSS2240	ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251	73.63% 0% 0% 0% 0% 0%	24 0 14 14 14 30	91 0 14 14 14 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 06-Nov-19*	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 05-Nov-19	308 0 -4 -4						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2230	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by	73.63% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30	91 0 14 14 14 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 06-Nov-19* 11-Dec-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20	308 0 -4 -4 -4 204						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2230 TCSS2240 DS50 TCSS1850	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending)	73.63% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20	308 0 -4 -4 -4 204						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2230 TCSS2240 DS50	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending)	73.63% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20	308 0 -4 -4 -4 204						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2160 TCSS2170 TCSS2210 TCSS2240 DS50 TCSS1850 TCSS Hub Ro	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending) TCSS Hub Room Finishes	73.63% 0% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20 21-Oct-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20	284 308 0 -4 -4 -4 204 204						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2210 TCSS2240 DS50 TCSS1850 TCSS1850 TCSS1910 TCSS1920	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending) TCSS Hub Room Finishes TCSS Hub Room BS provision	73.63% 0% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20 21-Oct-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20 21-Oct-19	308 0 -4 -4 -4 204 204 308						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2240 DS50 TCSS1850 TCSS1850 TCSS1910 TCSS1920 VO190 - Irrigatio	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending) TCSS Hub Room Finishes TCSS Hub Room BS provision On System near Ho Ka Yuen Footbridgen.	73.63% 0% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20 21-Oct-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20 21-Oct-19	308 0 -4 -4 -4 204 204 308						
Drainage & Roa TWSR-West/ F RDZ41170 Dther Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2240 DS50 TCSS1850 TCSS1850 TCSS1910 TCSS1920 VO190 - Irrigatio	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending) TCSS Hub Room Finishes TCSS Hub Room BS provision on System near Ho Ka Yuen Footbridgetion System near Ho Ka Yuen Footbridgetion System installation near Ho Ka Yuen	73.63% 0% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30 30	91 0 14 14 14 30 30 30	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20 21-Oct-19	16-Nov-19 21-Oct-19 17-Jan-20 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20 21-Oct-19	308 0 -4 -4 -4 204 204 308						
Drainage & Roa TWSR-West/ F RDZ41170 Other Works TCSS Works TCSS Pre-Cor TCSS0180 Civil Provisio TCSS2150 TCSS2150 TCSS2170 TCSS2210 TCSS2210 TCSS2240 DS50 TCSS1850 TCSS1910 TCSS1920 VO190 - Irrigatio	Ad Works FL Highway N/B Side Section Complete Slip road V and associated slope work Instruction Works Sign Gantry Factory production - FVMS1 (Deleted) In for TCSS Works M12 for CCTV P51 for VSLS P52 for VSLS Pillar box, isolator & associated duct work - PL207 for G34 & G35 Pillar box, isolator & associated duct work - PL251 for G51 Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02 Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending) TCSS Hub Room Finishes TCSS Hub Room BS provision on System near Ho Ka Yuen Footbridge Irrigation system installation near Ho Ka Yuen Footbridge	73.63% 0% 0% 0% 0% 0% 0% 0% 0% 0%	24 0 14 14 14 30 30 30 30 7 45	91 0 14 14 14 30 30 30 0	20-Jun-19A 21-Oct-19 02-Jan-20* 21-Oct-19 21-Oct-19 11-Dec-19 18-Jan-20 21-Oct-19 29-Aug-19 A 29-Oct-19	21-Oct-19 17-Jan-20 05-Nov-19 05-Nov-19 10-Dec-19 17-Jan-20 24-Feb-20 21-Oct-19 28-Oct-19 19-Dec-19	284 308 0 -4 -4 204 204 204 256 256						
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(Progress Update)(20-Oct-19) Activity Name	Dur 9/ L	3 Month Roll	ling Program Start Finish	Total				Page 4 of 4 (0	
		Rem. Duration Original Duration	Fillish	Float		Oct	2019 Nov	Dec	202 Jar
g Works in Traffic Signalized Junction a	at Pak Wo Road						1	1	
Interchange 050 Duct Laying (Road Crossing) - Pak Wo Ro	Road 0%	60 46	17-Sep-19 A 31-Dec-19	99			 	 	
		43 43	17-Sep-19 A 31-Dec-19 02-Jan-20 22-Feb-20	99					•
Existing Slope Crest or Planter)	otion U%	43	02-0a11-20	99					
No Road and Jockey Club Road Junct 260 Existing MJ modified by HyD structure	ction 0%	61 61	26-Oct-19* 08-Jan-20	101					ļ
270 Road Construction & reinstatement (new 2 stage after MJ modification by HyD)		35 35	09-Jan-20 20-Feb-20	101			1		
stage after MJ modification by HyD) missioning of Traffic Signalized Junct								1	
220 Eprom procurement	0%	60 60	16-Dec-19 28-Feb-20	99			 		

APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)

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

Air Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V
	All stockpiles of excavated materials or spoil of more than 50m³ shall be enclosed, covered or dampened during dry or windy conditions.		@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@
	All spraying of materials and surfaces shall avoid excessive water usage.		V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V
	Materials shall be dampened, if necessary, before transportation.		V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V

Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V
	Reduce the number of equipment and their percentage on-time.		V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V*
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V*
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V*
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V*
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V*
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V*
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V*
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		V*
Noise during operation	Noise Barrier built based on Figure 4a – Layout of Noise Barrier of Environmental Permit.	Review of required noise barrier layout	V*
	Noise Barrier built based on Figure 4b – Layout of Noise Barrier of Environmental Permit.	during the design stage	V*
	Noise Barrier built based on Figure 4c – Layout of Noise Barrier of Environmental Permit.		V*
	Noise Barrier built based on Figure 4d – Layout of Noise Barrier of Environmental Permit.		@
	Noise Barrier built based on Figure 4d (i) – Layout of Noise Barrier of Environmental Permit.		@

Noise Barrier built based on Figure 4e – Layout of Noise Barrier of Environmental Permit.	V*
Noise Barrier built based on Figure 4e (i) – Layout of Noise Barrier of Environmental Permit.	V*

^{*} Permanent noise barriers have been erected.

Water Quality – Schedule of Recommended Mitigation Measures

Waste - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Waste management during construction	 General Waste Transport of wastes off site as soon as possible. Maintenance of accurate waste records. Minimisation of waste generation for disposal (via reduction/recycling/re-use). No on-site burning will be permitted. Use of re-useable metal hoardings/signboards. 	During construction	@
	Vegetation from site clearance Segregation of materials to facilitate disposal. Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.		V
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V
	 Excavated Materials Segregation of materials to facilitate disposal / reuse. Appropriate stockpile management. Re-use of excavated material on or off site (where possible). Special handling and disposal procedures in the event that contaminated materials are excavated. 		V
	 Construction Wastes Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). Appropriate stockpile management. Planning to reduce over ordering and waste generation. Recycling and re-use of materials where possible (e.g. metal, wood from formwork) For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 		V
	Bentonite Slurries - Bentonite slurries should be reused as far as possible Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.		#

Chemical Wastes	V
- Storage within locked, covered and bunded area.	
- The storage area shall not be located adjacent to sensitive receivers e.g. drains.	
- Minimise waste production and recycle oils/solvents where possible.	
- A spill response procedure shall be in place and absorption material available for minor spillages.	
- Use appropriate and labelled containers.	
- Educate site workers on site cleanliness/waste management procedures.	
- If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.	
- The chemical wastes shall be collected by a licensed chemical waste collector.	
Municipal Wastes	@
 Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. Regular, daily collections are required by an approved waste collector. 	•

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology during construction	 Accurate Delineation of Works Area Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V
	Vegetation Clearance No fires shall be lit within the works area for the purpose of burning cleared vegetation. The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land.		V
	 Dust generation There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction: Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; All temporary site access roads shall be sprayed with water to suppress dust as necessary; All dusty materials should be sprayed with water immediately prior to any handling; and All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V
	Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport).		V

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibility
Landscape & Visual during construction	Preservation of Existing Vegetation Trees identified for retention within the project limit would be protected during the works; The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V
	Temporary Works Areas Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V
	 Top Soils The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis. 		#
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level	
AM2	317.8 μg/m3	500 μg/m3	

Table 2 - Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level	
AM2	200.7 μg/m3	260 μg/m3	

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
M3*	weekdays, is received	65/70 dB(A)
	from any one of the sensitive	
	receivers	

^{*}Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX E
CALIBRATION CERTIFICATES OF
MONITORING EQUIPMENTS



RECALIBRATION
DUE DATE:

December 31, 2019

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 31, 2018

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 0843

Pa: 741.7 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3830	3.2	2.00
2	3	4	1	0.9820	6.4	4.00
3	5	6	1	0.8780	7.9	5.00
4	7	8	1	0.8360	8.7	5.50
5	9	10	1	0.6890	12.7	8.00

	Data Tabulation							
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)			
0.9883	0.7146	1.4089	0.9957	0.7199	0.8889			
0.9840	1.0020	1.9925	0.9914	1.0095	1.2571			
0.9820	1.1184	2.2277	0.9893	1.1268	1.4054			
0.9809	1.1733	2.3365	0.9883	1.1821	1.4740			
0.9756	1.4159	2.8179	0.9829	1.4265	1.7777			
	m=	2.00999		m=	1.25862			
QSTD[b=	-0.02384	QA	b=	-0.01504			
	r=	0.99998		r=	0.99998			

	Calculation	s	
	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd= Vstd/∆Time		Qa= Va/ΔTime	
	For subsequent flow rate	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

298.15 ° _K 760 mm Hg
760 mm U.
700 mm ng
Key
nanometer reading (in H2O)
manometer reading (mm Hg)
ute temperature (°K)
netric pressure (mm Hg)

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Total Suspended Particulates (TSP) Sampler Field Calibration Report

Station	Fanling Governm	ent Secondary	School (AM2)		Operator:	Choi Wir	ng Ho	
Date:	10-Sep-19				Next Due Date:	10-Nov-19		
Model No:	TE-5170	_			Verified Against:	O.T.S 988		
Equipment No.:	A-001-74T				Expiration Date:			
					32			
			Ambient C	Condition				
Temperat	ture, Ta	306.0	Kelvin	Pressu	re, Pa	755.4	mmHg	
Section (1) Section (1) - Control (1)			(1)					
		Oı	rifice Transfer Sta	ndard Informat	tion			
Equipme	nt No.:	988	Slope, mc	1.98	356	Intercept, bc	-0.02592	
Last Calibra	tion Date:	6-Jun-19	n	nc x Qstd + bc =	= [H v (Pa/760)	v (208/Ta)1 ^{1/2}		
Next Calibra	ation Date:	6-Jun-20	11	iic x Qstu + bc -	- [II x (I a//00)	X (290/1a)		
							70	
			Calibration of					
Calibration	Н		sov (200 / 201/2	Qstd	W	[ΔW x (Pa/760) :	x (298/Ta)] ^{1/2}	
Point	in. of water	[H x (Pa/7)	60) x (298/Ta)] ^{1/2}	(m³/min)	in. of oil	Y-axis		
	7.0		2.60	X - axis	<i>E. E.</i>	221		
1	5.6		2.60	1.33	5.5	2.31		
2			2.33	1.19	4.4	2.06		
3	4.5		2.09	1.07	3.3	1.79		
4	3.4	-	1.81	0.93	2.5	1.56		
5	2.6		1.59	0.81	1.8	1.32	<u> </u>	
By Linear Regre		•						
Slope, mw =		-		Intercept, bw =		-0.223	39	
Correlation C	oefficient* = _	0	.9992					
		· · · · · · · · · · · · · · · · · · ·						
			Set Point Ca	alculation			19180	
From the TSP Fie	eld Calibration C	Curve, take Qs	$std = 1.21 \text{ m}^3/\text{min} (4)$	13 CFM)				
From the Regress	sion Equation, th	ne "Y" value a	ccording to					
***		m v	Qstd + b = [W x (F)]	Da/760) v (209/T	(a)1 ^{1/2}			
		III X	Qsta + b = [W X (I	a//00) x (250/1	<i>a)</i> j			
Therefore, S	et Point W = (n	n x Qstd + b)	2 x (760 / Pa) x (7	Ta / 298) =	4	.48		
*If Correlation C	a afficient < 0.00	O abaals and	librata accin					
- If Correlation C	oemcient < 0.99	o, check and	recamorate again.					
Remarks:								
		100						
QC Reviewer:	WS CH.	AN	Signature:	41		Date: 10/69	119	

EQUIPMENT CALIBRATION RECORD

Type: Manu	facturer/Brand:			_	Laser Du SIBATA	ıst Moni	tor			
Model					LD-3					
	ment No.:			_	A.005.07		20			
Sensit	ivity Adjustment	Scale Se	tting:	_	557 CPI	И	1			
Opera	tor:			_	Mike She	k (MSKN	A)			
Standa	rd Equipment									
Equip	ment:	D.	nnroo	ht 9 Do	taahniak	TEOM®				
Venue					tashnick		abaal)			
Model				400AB	ing Seco	nuary 30	211001)			
Serial			ntrol:		DAB21989	20002	18.10			
Serial	NO.						V . 40	F00		
Last C	Calibration Date*:		nsor: <i>1ay 20</i>		00C14365	9803	K _o : _128	500		
							\$850			
*Remar	ks: Recommend	ed interva	al for h	nardwai	e calibra	tion is 1 y	/ear			
Calibra	tion Result					1000 10				
	ivity Adjustment ivity Adjustment						557 557	CPM CPM		
Hour	Date		Time		Amb		Concentration		Total	Count/
	(dd-mm-yy)				Cond	dition	(mg/m ³)	(Count ²	Minute ³
					Temp	R.H.	Y-axis			X-axis
1	04-05-19	09:15	-	10:15	(°C) 23.7	(%) 81	0.04765		1914	31.90
2	04-05-19	10:15		11:15	23.7	82	0.05036		2025	33.75
3	04-05-19	11:15		12:15	23.8	82	0.05251		2103	35.05
4	04-05-19	12:15		13:15	23.8	82	0.05587		2231	37.18
Note:	Monitoring of 2. Total Count Count/minut	was logg	ed by	Laser [Rupprecl Dust Mon	itor	shnick TEOM®			
By Linea	ar Regression of	Y or X								
Slope	(K-factor):		0.0	0015						
Correl	ation coefficient:		0.9	9977						
Validit	y of Calibration F	Record:	41	May 202	20					
Remark	s:									
OC Re	eviewer: VW F	- -una		Signat	ure:	4/	Г)ate:	06 May	2010

EQUIPMENT CALIBRATION RECORD

Model Equip	Type: Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setting:				ust Moni Da M	itor		
Opera	ator:		-	Mike She	ek (MSKI	M)		
Standa	rd Equipment	57						
	e: l No.:	Cyb Seri Con Sen 2 M	sor: 12 lay 2019	Ying Seco 0AB21989 00C14369	99803 59803	K _o : <u>12500</u>		
Calibra	tion Result							
	tivity Adjustment tivity Adjustment					797 CP		
Hour	Date (dd-mm-yy)	Т	ime	1.00	dition	Concentration ¹ (mg/m³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1 2	04-05-19 04-05-19	09:45 10:45	- 10:45 - 11:45	23.7	(%) 81 82	0.04813 0.05032	1925 2022	32.08 33.70
3	04-05-19 04-05-19	11:45 12:45	- 12:45 - 13:45	23.8	82 82	0.05264	2118	35.30
Note:	Monitoring of 2. Total Count 3. Count/minut	lata was m was logge e was cald	neasured by ed by Laser	Rupprecl Dust Mon	nt & Pata itor	O.05515 ashnick TEOM®	2220	37.00
Slope	ar Regression of (K-factor): ation coefficient:	Y or X	0.0015 0.9976					
Validit	y of Calibration F	Record:	4 May 20	20				
Remark	s:							
OC Re	eviewer: YW F	- una	Signa	ture:	W	Date	o: 06 May	2010



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

19CA0327 01-02

Page:

to:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

B&K

Type/Model No .: Serial/Equipment No.: 4231

3006428 / N004.03

Adaptors used:

Item submitted by

Curstomer:

AECOM ASIA CO LIMITED

Address of Customer:

Request No.: Date of receipt:

27-Mar-2019

(N.004.03)

Date of test:

27-Mar-2019

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable t
Lab standard microphone	B&K 4180	2341427	20-Apr-2019	SCL
Preamplifier	B&K 2673	2743150	27-Apr-2019	CEPREI
Measuring amplifier	B&K 2610	2346941	08-May-2019	CEPREI
Signal generator	DS 360	33873	24-Apr-2019	CEPREI
Digital multi-meter	34401A	US36087050	23-Apr-2019	CEPREI
Audio analyzer	8903B	GB41300350	23-Apr-2019	CEPREI
Universal counter	53132A	MY40003662	24-Apr-2019	CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

55 ± 10 % 1005 ± 5 hPa

Test specifications

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate

Feng Jung

Approved Signatory:

Date:

29-Mar-2019

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

19CA0327 01-02

Page:

2

1, Measured Sound Pressure Level

> The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties

(Output level in	dB re 20 µPa)
Estimated	Evpanded

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	94.23	0.10

2. Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.014 dB

Estimated expanded uncertainty

0 005 dB

3, **Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 1000.0 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.3 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

End

Calibrated by:

Fung Chi Yip

Date: 27-Mar-2019

Date:

29-Mar-2019

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

C Soils & Materials Engineering Co., Ltd.

Form No.CARP156-2/Issue 1/Rev.C/01/05/2005



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CERTIFICATE OF CALIBRATION

Certificate No.:

19CA0327 01-01

Page

of

2

Item tested

Description: Manufacturer: Sound Level Meter (Type 1) B & K Microphone B & K 4188

Type/Model No.: Serial/Equipment No.: 2238 2285692

2250455

Expiry Date:

Adaptors used:

_

_

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No.:

27-Mar-2019

(N.009.04)

Date of test:

Date of receipt:

28-Mar-2019

Reference equipment used in the calibration

Description:

Signal generator

Multi function sound calibrator Signal generator

B&K 4226 DS 360 DS 360

Model:

Serial No.

2288444 23-Aug-2019 33873 24-Apr-2019 61227 26-Dec-2019 Traceable to:

CIGISMEC CEPREI CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 55 ± 10 %

1005 ± 5 hPa

Relative humidity: Air pressure:

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets

Feng Jung

Approved Signatory:

Date:

29-Mar-2019

Company Chop:

家ENGINEGA 综合試驗 COM 有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No CARP152-1/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

19CA0327 01-01

1, **Electrical Tests**

> The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

4, Remark: This calibration certificate supersedes the last certificate 18CA0406 02-01

Calibrated by:

Checked by:

Fung Chi Yip

Date:

Fong Chun Wai 28-Mar-2019

29-Mar-2019

The standard(s) and equipment used in the calibration are traceable to national ∮r international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

End

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

19CA0912 01

Page

Microphone

of

2

Item tested

Description: Manufacturer: Sound Level Meter (Type 1)

B&K 2238

B&K 4188 2791211

Type/Model No.: Serial/Equipment No.: Adaptors used:

2800927

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No.

Date of receipt:

12-Sep-2019

Date of test:

16-Sep-2019

Reference equipment used in the calibration

Description:

Signal generator

Model:

DS 360

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

61227

23-Aug-2020

CIGISMEC

26-Dec-2019

CEPREI

Ambient conditions

Temperature:

Relative humidity:

21 ± 1 °C 55 ± 10 %

Air pressure:

1000 ± 5 hPa

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Feng Jungi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

16-Sep-2019

Company Chop:

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



香港 黄 竹 坑 道 3 7 號 利 達 中 心 1 2 樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

19CA0912 01

Page

01

2

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
	oubicot.	Otatas.	Gilocriainty (GB)	1 dotor
Self-generated noise	Α	Pass	0.3	
•	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
• • • • • • • • • • • • • • • • • • • •	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date: Fung Chi Yip 16-Sep-2019

End

Checked by

Date: 16

16-Sep-2019

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007

APPENDIX F EM&A MONITORING SCHEDULES

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Impact Monitoring and Audit Schedule for October 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Oct	2-Oct		4-Oct	5-Oct
				1-hr TSP		
				24-hr TSP		
				Noise		
	- 0 ·	2.2.		10.0		10.0
6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
			1-hr TSP			
			24-hr TSP			
			Noise			
		Site Audit				
13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
		1-hr TSP				
		24-hr TSP				
		Noise				
		Site Audit				
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
				Site Audit		
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct		
		Site Audit				

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for November 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
					1-hr TSP	
					24-hr TSP	
					Noise	
3-Nov	4-Nov	5-Nov	6-Nov		8-Nov	9-Nov
				1-hr TSP		
				24-hr TSP		
				Noise		
		Site Audit				
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
			1-hr TSP			
			24-hr TSP			
			Noise			
		Site Audit				
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
		1-hr TSP				
		24-hr TSP				
		Noise				
				Site Audit		
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	1-hr TSP					
	24-hr TSP					
	Noise					
		Site Audit				

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

APPENDIX G
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION

Appendix G Impact Air Quality Monitoring Results

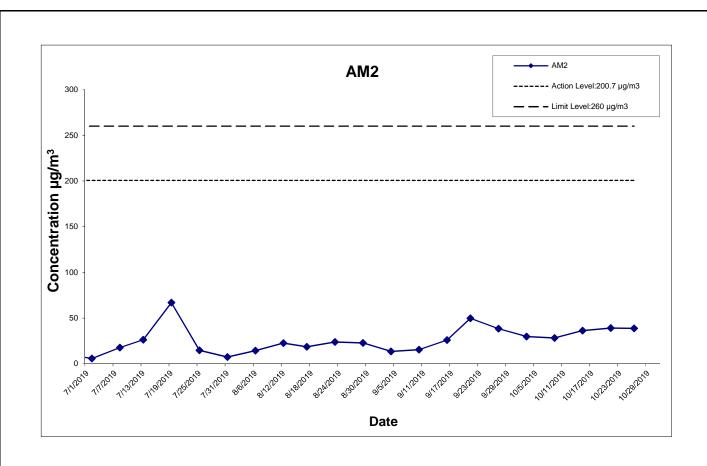
24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Ai			e (m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition Temp	(°C)Pressure(hPa	a) Initial	Final	(m³/min)	(m³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m ³)	(µg/m ³)
3-Oct-19	Sunny 29	.0 1012.1	1.324	1.324	1.324	1906.6	2.6815	2.7385	0.0570	12486.02	12510.02	24.00	29.9	200.7	260
9-Oct-19	Sunny 27	.8 1014.7	1.324	1.324	1.324	1906.6	2.6704	2.7244	0.0540	12510.02	12534.02	24.00	28.3	200.7	260
15-Oct-19	Sunny 26	.0 1019.0	1.324	1.324	1.324	1906.6	2.6743	2.7437	0.0694	12534.02	12558.02	24.00	36.4	200.7	260
21-Oct-19	Sunny 25	.3 1014.0	1.324	1.324	1.324	1906.6	2.6304	2.7051	0.0747	12558.02	12582.02	24.00	39.2	200.7	260
26-Oct-19	Cloudy 25	.9 1017.0	1.324	1.324	1.324	1906.6	2.6277	2.7015	0.0738	12582.02	12606.02	24.00	38.7	200.7	260

 Average
 34.5

 Min
 28.3

 Max
 39.2



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AECOM

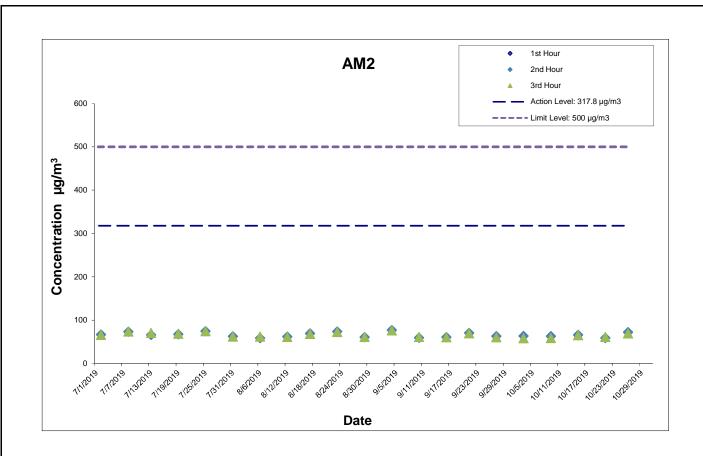
CONTRACT NO. HY/2012/06

Project No.: 60307376 Date: Nov-19 Appendix G

Appendix G Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
3-Oct-19	9:30	62.1	63.1	58.1
9-Oct-19	13:00	61.1	62.8	58.5
15-Oct-19	13:45	62.0	66.0	65.0
21-Oct-19	10:15	60.3	58.7	61.1
26-Oct-19	10:20	70.7	72.2	69.3
			Average	63.4
			Min	58.1
			Max	72.2



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CONTRACT NO. HY/2012/06
WIDENING OF FANLING HIGHWAY
- TAI HANG TO WO HOP SHEK INTERCHANGE



Project No.: 60307376 Date: Nov-19 Appendix G

APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH

11/8/2019 **Daily Extract**





繁體版 简体版

SEARCH Enter search keyword(s)

🔎 SITE MAP 🖂

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Daily Extract of Meteorological Observations, October 2019

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7 10 0 0 1 0 0			Vea	r 2019	▼ Month	10 ▼	Go					
HKO Updates			Tea							King's		
Our Services			Hong Kong Observatory							Park	Waglan Island^	
Visitors Figures			Air T	emper	ature	Mean	Maan	Mean		Tatal	Duarrailina	Maara
Press releases	Day	Mean	Absolute	Mean	Absolute	Dew	Mean Relative	Amount	Total	Total Bright	Prevailing Wind	Mean Wind
Weather Note (Chinese)		Pressure (hPa)	Daily Max	(deg.	Daily Min	Point (deg.	Humidity	of Cloud	Rainfall (mm)	Sunshine	Direction	Speed
Weather Warning			(deg. C)	(C)	(deg. C)	C)	(%)	(%)		(hours)	(degrees)	(km/h)
Local Weather	01	1009.4	33.2	30.3	28.4	21.2	59	11	0.0	10.7	***	***
Observations	02	1011.2	32.1	29.5	27.9	23.7	71	20	0.0	10.6	***	***
Weather Forecast	03	1012.1	31.8	29.0	27.4	22.3	67	22	0.0	10.5	***	***
Weather Monitoring	04	1012.2	31.3	28.6	26.9	22.4	70	22	0.0	8.0	***	***
Imagery	05	1012.9	32.3	29.1	26.8	22.7	69	18	0.0	9.9	***	***
Computer Forecast	06	1014.7	29.1	26.3	23.1	22.8	81	87	46.8	0.2	***	***
Products	07	1015.4	28.3	26.3	23.2	23.7	86	83	17.9	3.2	***	***
MyObservatory	08	1015.6	30.4	27.7	25.3	23.6	79	66	4.9	8.4	***	***
Earth Weather	09	1014.7	29.8	27.8	26.7	22.9	75	55	Trace	9.0	***	***
Met on Map	10	1013.5	30.3	27.9	26.6	23.3	76	35	0.0	8.4	***	***
Tropical Cyclones	11	1011.8	31.1	28.5	26.3	23.5	75	24	0.0	10.1	***	***
Aviation Weather	12	1011.8	31.5	28.6	27.4	24.4	78	51	0.3	4.8	***	***
Services	13	1014.6	30.8	27.2	24.5	24.2	84	81	13.6	5.0	***	***
Marine Meteorological	14	1017.6	28.9	25.8	24.2	23.1	86	80	52.1	2.2	***	***
Services	15	1019.0	29.7	26.0	23.1	20.8	74	56	10.4	8.4	***	***
Weather Information for	16	1018.3	28.9	25.5	23.2	18.9	67	37	0.0	9.4	***	***
Sports	17	1017.2	29.7	26.2	23.9	20.1	70	31	0.0	10.4	***	***
Weather Information for	18	1016.9	29.0	26.5	24.7	20.3	70	57	Trace	8.3	***	***
Communities	19	1017.2	29.6	26.2	24.2	20.7	72	34	0.0	9.0	***	***
China Weather	20	1016.5	28.3	25.4	23.4	20.7	76	42	3.5	7.7	***	***
World Weather	21	1014.0	28.8	25.3	23.5	19.9	72	35	0.0	8.5	***	***
Climatological Information	22	1012.2	28.0	25.0	23.4	18.6	68	21	0.0	9.9	***	***
Services	23	1012.2	28.7	25.5	23.5	19.8	71	28	0.0	10.2	***	***
> Climate Watch	24	1014.9	29.5	26.2	24.5	20.4	71	51	0.0	8.7	***	***
> Climate Statistics	25	1016.7	28.3	25.8	24.3	21.0	75	33	0.0	9.6	***	***
> Climate Prediction	26	1017.0	28.3	25.9	24.7	21.0	75	73	Trace	4.3	***	***
> Climate Knowledge	27	1015.3	29.0	25.7	24.0	21.3	76	59	Trace	8.1	***	***
> Need More	28	1014.7	29.0	25.2	22.4	20.8	77	79	Trace	3.2	***	***
Information?	29	1015.7	24.7	22.7	20.3	15.9	65	54	0.0	4.5	***	***
> Global Climate	30	1016.7	26.4	24.0	21.5	15.6	60	81	0.0	4.4	***	***
Services	31	1016.2	27.2	24.8	23.2	18.3	68	78	0.0	5.1	***	***
> Other Useful Links	Mean/Total	1014.8	29.5	26.6	24.6	21.2	73	49	149.5	230.7	***	***
Climate Forecast	Normal§	1014.1	27.8	25.5	23.7	20.2	73	58	100.9	193.9	080	27.4
Climate Change			,									

Climate Change

El Nino and La Nina

Earthquakes and

Tsunamis

Astronomy, Space

Weather and

Geomagnetism

*** unavailable

^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal, unless otherwise specified

APPENDIX I
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION

Appendix I Impact Daytime Construction Noise Monitoring Results

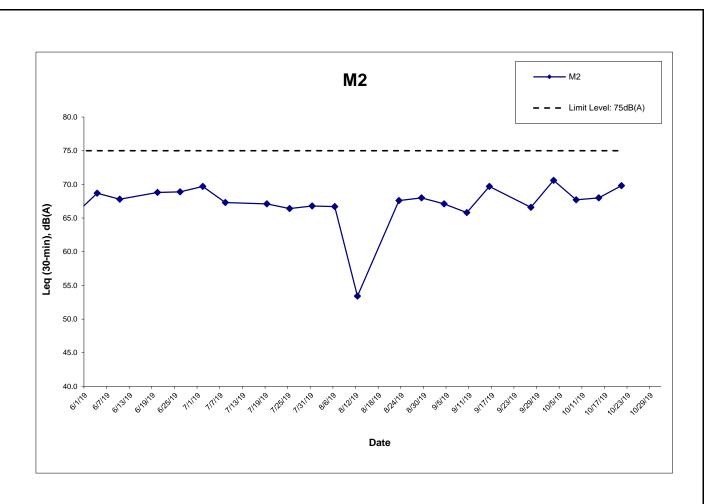
Location : M2 (West Tai Wo - Free Field)Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

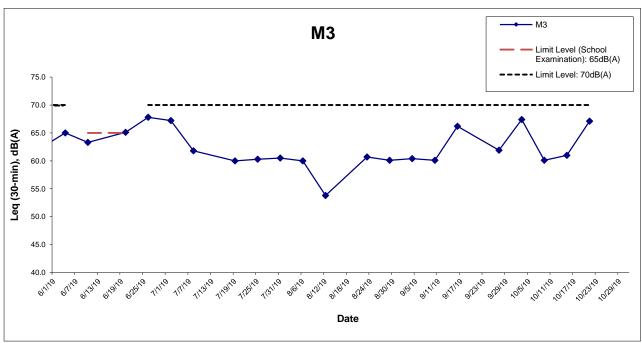
	Meas	ured Noise Le	Limit Level,	Exceedance		
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
3-Oct-19	10:15	70.6	72.5	68.4	75	N
9-Oct-19	13:55	67.7	69.0	65.0	75	N
15-Oct-19	14:45	68.0	70.0	62.0	75	N
21-Oct-19	11:15	69.8	71.2	67.8	75	N
	Min	67.7	69.0	62.0		
	Max	70.6	72.5	68.4		
	Average	69.2	70.9	66.5		

Location: M3 (Fanling Government Secondary School- Façade)
Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	Limit Level,	Exceedance		
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
3-Oct-19	9:30	67.4	68.9	64.5	70	N
9-Oct-19	13:00	60.1	61.0	56.5	70	N
15-Oct-19	13:50	61.0	63.5	58.0	70	N
21-Oct-19	10:30	67.1	68.6	65.9	70	N
	Min	60.1	61.0	56.5		
	Max	67.4	68.9	65.9		
	Average	65.1	66.7	62.9		

^{* +3}dB(A) Façade effect correction included ^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.





CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Project No.: 60307376 Date: Nov-19

AECOM

Appendix I

APPENDIX J EVENT ACTION PLAN

Appendix J – Event Action Plan

Event / Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level				
Exceedance for one sample	Identify source; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to dailv.	Check monitoring data submitted by ET; Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented.	Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

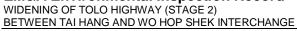
Event / Action Plan for Air Quality

Event	Action			
Action Level	ET Leader	IEC	ER	Contractor
Limit Level				
Exceedance for one sample	 Identify source; Inform IEC, ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase frequency to daily; Analyse Contractor's working procedures to determine possible mitigation to be; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by ER until the exceedance is abated.

Event / Action Plan for Noise Impact

Event	t Action			
Limit Level	ET Leader	IEC	ER	Contractor
Action Level	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	Review with analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures.	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.
Limit Level	 Notify, IEC, ER, EPD and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 		 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

APPENDIX K SITE INSPECTION SUMMARIES





Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	8 October 2019
Time:	14:00
Inspection No.:	308

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ΙV	101 I-	CUII	IVII	ıaıı	ᅜᆫ

Nil

O<u>bservations</u>

Follow-up Observation(s)

- 1. Water spraying was implemented at the haul road for dust suppression.
- 2. The improper stored general refuse was removed.
- 3. Water spraying was implemented during dust cleaning work carried at the construction site.

New Observation(s)

Nil

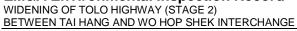
Reminder(s)

4. The Contractor was reminded to provide an entire surrounding for the construction material storage area at SA310.

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	Alee	8 October 2019
Checked by	Y W Fung	/	8 October 2019







Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	15 October 2019
Time:	14:00
Inspection No.:	309

Non-compliance

Nil

O<u>bservations</u>

Follow-up Observation(s)

1. An entire surrounding was provided to the construction material stored at SA310.

New Observation(s)

2. Stockpile placed near to river was observed at SA310. The Contractor was advised to provide a blockage on the boundary of stockpile to prevent the silt enter the river.

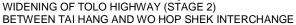
Reminder(s)

3. The Contractor was advised to replace the decolored NRMM label at SA346.

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	flee	15 October 2019
Checked by	Y W Fung	/	15 October 2019









Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	24 October 2019
Time:	14:00
Inspection No.:	310

Noi	า-com	plian	ce
1 101	, ,,,,,,	pilai	

Nil

Observations

Follow-up Observation(s)

- 1. Impervious sheeting was provided to the boundary of stockpile stored at SA310 to prevent the silt of stockpile enter the river.
- 2. The decolored NRMM label was replaced by new one.

New Observation(s)

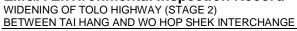
- 3. Stockpile stored without cover was observed at SA310. The Contractor was advised to cover the stockpile on site for preventing dust.
- 4. Improper storage of construction waste was observed at SA324. The Contractor was advised to sort the construction waste on site and store in a proper area.

Reminder(s)

Nil

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	Alee	24 October 2019
Checked by	Y W Fung	1	24 October 2019





Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	29 October 2019
Time:	14:00
Inspection No.:	311

Non-compliance		

Observations

Nil

	Observation(s)
FUIIUW-UD	Observationisi

- 1. The uncovered stockpile at SA310 was removed. (Closed)
- 2. The Improper stored construction waste at SA324 was removed. (Closed)

New Observation(s)

3. The haul road at SA310 was observed dry. The Contractor was advised to implement dust control measure for dust suppression.

Reminder(s)

Nil

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	flee	29 October 2019
Checked by	Y W Fung	/	29 October 2019

APPENDIX L
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS

Appendix L Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	4	0
complaints	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed	1	9

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	EPD referred an air complaint on 24 October 2014.			
	A resident complained against the excavation works of Tai Wo			
23 October	Service Road West between Nam Wah Po & Tai Hang Tsuen, which			
2014	have piled up high stockpiles, causing serious dust nuisance to his house.	Closed		
	The resident also complained that the stockpiles have not been			
	covered and watered properly. He now requires the EPD to follow up.			
	The location of complaint is near Lamppost Location EB5717.			
	EPD referred a water complaint on 31 December 2014.			
31	The complainant complained about the muddy river outside Tai Hang			
December	Village Office on 29 December 2014. It was suspected that the muddy	Closed		
2014	water was discharged from the construction works of the Project.			
	He required the EPD to follow up.			
	EPD referred a water complaint on 25 March 2015.			
	The complainant complained about the generation of the smell of			
25 March	gasoline from the Widening of Fanling Highway construction site on			
2015	Tai Wo Service Road West, causing serious nuisance to nearby	Closed		
	houses.			
	The situation has continued for a few weeks and she asked the EPD			
	to follow up as soon as possible.			

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
5 January 2017 (Referred by the Contractor on 13 January 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017. The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village. The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.	Closed		
22 May 2017 (Referred by the Contractor on 23 May 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017. A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s). The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
25 February 2018 (Referred by the Contractor on 1 March 2018)	The 1823 enquiry and complaint hotline received a complaint on 25 February 2018. The complaint was referred to the Environmental Team by the Contractor on 1 March 2018. A complainant complained that noise nuisance was caused continuously by road construction works at Fanling Highway near Tai Hang Village during 01:30 to 04:00 on 25 February 2018. The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	28 September 2019 (Referred by the EPD on 28 October 2019)	The EPD received a complaint on 28 October 2019. The complaint was referred to the Environmental Team by the Contractor on 28 October 2019. The complainant was regarded to the use of powered mechanical equipment not in accordance with the conditions stipulated in the Construction Noise Permit (CNP) - GW-RN0602-19 in Pak Wo Road near Fanling Highway on 24 September 2019. The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		
Notification of summons	-	<u>-</u>	-	0	0
Successful Prosecutions	-	-	-	0	0

Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

APPENDIX M
INVESTIGATION REPORT ON
COMPLAINT NON-COMPLIANCE

CONTRACT NO. HY/2012/06

Widening of Fanling Highway

Between Tai Hang and Wo Hop Shek Interchange (Stage 2)

ENVIRONMENTAL COMPLAINT ACTION FORM

Environmental Enquiry No.: EC-09 (Related Previous Enquiry No.: --)

COMPLAINT DETAILS

Date Received	28 October 2019	
Parameter	* Air / Noise / Water / Waste / Landscape	
Enquirer's Details		
Name	Not disclosed	
Contact Tel No.	Not disclosed	
Address	Not disclosed	

FOLLOW-UP ACTION

First Contact with the Complaint by	* Telephone / Site Visit / Referral from EPD/-Referral from the 1823 enquiry and complaint hotline
Date of the First Contact	24 September 2019

Details of Complaint:

The EPD received a complaint on 28 October 2019. The complaint was referred to the Environmental Team by the Contractor on 28 October 2019.

The complainant was regarded to the use of powered mechanical equipment not in accordance with the conditions stipulated in the Construction Noise Permit (CNP) - *GW-RN0602-19* in Pak Wo Road near Fanling Highway on 24 September 2019.

Investigation and Findings:

As advised by the Contractor (China State Construction Engineering (HK) Ltd.), laying of cross road dust was conducted at Pak Wo Road was undertaken during the concerned period under the Construction Noise Permit (CNP), GW-RN0602-19. The complaint reply email from the Contractor was provided at **Attachment 2**. Loading, unloading and handling of rubble were scheduled to restricted hours to avoid causing serious interruption to road transport. EPD and the publics were notified in accordance with the requirement stipulated in the permit. The works area is shown in **Figure 1**. The CNP was provided in **Attachment 1**.

Construction works were carried out during restricted hours under CNP: GW-RN0602-19.

Works Area	CNP No.	Effective Date
CH24.1 – CH24.2	GW-RN0602-19	26 August 2019 – 25 October 2019

According to the Contractor, the PME used are summarized in the following table.

_	
Identification code of item of powered	PME used (with No. of Units)
mechanical equipment (if applicable)	
Group A CNP203	1 no. of Saw, concrete
Group B	1 no. of Mini Excavator
Group C	1 no. of Hand-held Breaker
Group D	1 no. of Dump truck
Group E	1 no. of Dump truck
Group F CNP 186	1 no. of Roller
CNP 050	1 no. of Compactor
Group G	1 no. of Lorry

The construction works carried out within the concerned period, which was reported by the Contractor, was considered to be in compliance with the CNP. As advised by the Contractor, all conditions stipulated in the CNP were strictly complied and compliance check has been conducted by Contractor's supervisory staff on site.

The Contractor is advised to implement the mitigation measures as stated in "Recommended Mitigation Measures".

Exceedance Associated with Site	* No Exceedance / Action / Limit
Activity to	NO Exceedance / Action / Entitle

Recommended Mitigation Measures:

- 1) Strictly follow all terms and conditions of a valid CNP;
- 2) Communicate with operation team to draw their attention on relevant Noise Control Ordinance;
- 3) Inspect the PMEs regularly and well maintain them to ensure that they are operating efficiently and in good condition;
- 4) Display the copy of CNP at the construction site entry/exit area for public information;
- 5) Review and relocate the position of fixed plant to minimize nuisance to the neighboring properties and public; and
- 6) Foster better public relations with the sensitive receivers and complainants nearby.

^{*} Delete where inappropriate

R	я	1	M	IT	0	D	IN	-
I۱	"	u	IV		u		IN	C.

Ad hoc Monitoring undertaken	* Yes / No	

Prepared	by:
----------	-----

Y W Fung

Designation:

Environmental Team Leader

Signature:

0/

Date:

12 November 2019

^{*} Delete where inappropriate



Figure 1 – Site Layout Plan



ATTACHMENT 1 - Noise Control Permit (GW-RN-0602-19)

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

CC	NST	RUCTION NOISE PERMIT	NO. <u>GW-RN0602-19</u>					
То	: Cl	hina State Construction Engir	neering (Hong Kong) Limited					
pow	This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of owered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of rescribed 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					
_	2		to the transfer of the department on words may be appropried					
1.			chanical equipment and/or prescribed construction work may be employed: ag Highway CH24.1 and CH24.2, Fanling, New Territories (Widening of Fa					
) (HyD Contract No.: HY/2012/06). Lot No.					
			y of the area within which the powered mechanical equipment may be					
	const	truction work may be carried out is	delineated on the attached plan which forms part of this construction noise	permit.				
2.	*PAI	RT/WHOLE of the site falls *WITH	IIN/ OUTSIDE a designated area					
3.	Powe	ered Mechanical Equipment						
	a.	Items of powered mechanical equip	ment which may be used inside the site boundary:					
		Identification code of item of	Description of item of					
		powered mechanical equipment (if applicable)	Powered mechanical equipment	No. of units				
			Refer to attached sheet	1				
		14						
		ā						
				·				
	b.		ermit for the use of the powered mechanical equipment:					
		Date and time of commencement:		1000 0400				
			urs on general holidays (including Sundays), 0000-0700 hours and					
			at note Condition 3.d.1 below for the operating hours within which					
		listed powered mechanical equi	pment is allowed].					
		This part of the permit expires on:	The second of th					
	c.	One photograph, endorsed by the A is required to be kept on the constru	authority, of each item of powered mechanical equipment described in this of action site and made available for inspection by the Authority.	construction noise permit				
	d.	Other conditions imposed on the us	e of the powered mechanical equipment:					
		Refer to the attached sheets for	conditions imposed for this construction noise permit [which is issue	ued as a special case				
		due to constraints on working h	ours to avoid causing serious interruption to road transport].					

a.	Type of prescribed construction work v	which may be carried out inside the site boundary:
	Identification code of type of prescribed construction work	Description of type of prescribed construction work
	PCW 002	Loading, unloading or handling of rubble
з		
b.	Validity of the construction noise perm	it for the carrying out of the prescribed construction work:
	Date and time of commencement : 20	6 August 2019 at 0000 hours
	Days and hours: 0000-2400 hours	on general holidays (including Sundays), 0000-0700 hours and 1900-2400 on any day
	not being a general holiday [but no	te Condition 4.d.1 below for the operating hours within which the carrying out of the
	above listed prescribed construction	n work is allowed].
	This part of the permit expires on: 25	5 October 2019 at 2400 hours
c. d.	of prescribed construction work descrimade available for inspection by the Adordance of the Construction o	thority, may be attached with the permit to indicate the locations permitted for the carrying out bed in this permit. The layout plan(s) is(are) required to be kept on the construction site and athority. In a out of the prescribed construction work: Inditions imposed for this construction noise permit [which is issued as a special g hours to avoid causing serious interruption to road transport].
	case due to constraints on working	nours to avoid causing serious interruption to road transport
	4	
	is construction noise permit or a copy the ard of adequate size for public inform	reof must be displayed on the construction site at both ends of road section on a standing
sigii bo	ard of adequate size for public inform	iduon.
		e v
Dated t	his 23 rd Day of August	2019
Dated ti	ilis Day 01 Augusi	Colling
		Signed:
		(CHENG Kai-wa) for Authority

4. Prescribed Construction Work

Delete as necessary

-2-

表格3 噪音管制條例 (第400章) 第8(9)條

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

Z由公	CII-EL:	音許可證編號: GW-RN06	02.10	
	5 000	中國建築工程(香港)有限公司		
致:				
擊式	打	噪音許可證是按照《噪音 樁工程以外的建築工程及 築工程,許可證可遭撤銷	音管制條例》第8條的規定而發出的。現准予使用機動設立 之/或進行訂明建築工程,但須受以下條件規限。若不按 前,而且會受到檢控。	備以進行撞 照該等條件
			<i>條 件</i>	
1.	可侵	申用機動設備及/或進行	訂明建築工程的建築地盤:	
			8鏈距 CH24.1 及鏈距 CH24.2 之間的百和路(粉嶺公路擴闊工程-泰亨至	
5	和合	石交匯處) (路政署合約編號:	HY/2012/06)。	
		盆範圍(即可使用機動設備 大建築噪音許可證的一部)	i及進行訂明建築工程的地方範圍)已描劃於夾附的圖則上分。	,而該圖則
2.	該均	也盤部份/全部*位於指定的	範圍之內/外*	
3.	幾重			
á	a.	在地盤範圍內可使用的各	項機動設備:	
		各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
			參見附頁	
				8
			•	
			*	
			1 ++ >6	
	b.	可使用機動設備的建築噪		
		生效日期及時間:		
		and the same of th	(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	反令叮土工
			特[但須注意條件 3.d.1 有關可以使用上列機動設備的時間]。	
		此部分許可證屆滿日期及	と時間: 二零一九年十月二十五日 晚上十二時 日期 時間	
			17/4	* 手 · · · · · · · ·
	c.	建築地盤須備有本建築。 照片須經監督認可。	操音許可證所述每件機動設備的照片各一幀,供監督 隨 時	笡 有 ,
	d.		噪音許可證的規限條件[該條件是鑒於本建築噪音許可證屬	
		而註明的。而該特別個	案是為 <u>避免</u> 於其他時段施工時引致 <u>嚴重妨礙道路交通</u> 的情	況而處理

的]。

1	当丁	HH	建	築	Т	积
4.	Ē.	47	处土	FR	ட	在王

	在地	舟分	節圍	内口	催行	的訂	明	建築	工程	1
•	1+ 111	12X	田11 1	NA P	2年1	D / E	4	件 完		

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
PCW 002	装卸或處理瓦礫

b.	可進行訂明建築工程的建築噪音許可證有效期:
	生效日期及時間: 二零一九年八月二十六日 凌晨零時
	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
	七時及下午七時至晚上十二時[但須注意條件 4.d.1 有關可進行上列訂明建築工程的時間]。
	此部分許可證屆滿日期及時間: 二零一九年十月二十五日 晚上十二時
	日期
c.	本許可證可夾附經監督認可的地盤圖則,以顯示本許可證准予進行訂明建築工程的地點。該
	地盤圖則須存放於建築地盤供監督隨時查看。
d.	規限進行訂明建築工程的其他條件:
	請參見附頁有關本建築噪音許可證的規限條件[該條件是鑒於本建築噪音許可證屬特別個案
	而註明的。而該特別個案是為 <u>避免</u> 於其他時段施工時引致 <u>嚴重妨礙道路交通</u> 的情況而處理
	的]。
	建築噪音許可證或其副本必須展示於建築地盤的 工程前後兩端所施工位置所豎立的適當告示
_ ,	給予公眾人士參閱。
п.	
月:	二零一九年八月二十三日
	尼为的
	<i>簽署</i> :
	监督 監督
	(鄭啟華 代行)

日期

删去不適用者

5.

Sheets Attached to Construction Noise Permit No. GW-RN0602-19

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

Identification code of item of powered mechanical equipment (if applicable)		Description of item of powered mechanical equipment	No. of units
Group A	CNP 203	Saw, concrete (petrol)	
Group B	,	Mini Excavator	One
Group C		Breaker, hand-held (electric), with Noise Emission Label showing a Sound Power Level of ≤ 103dB(A)	One
		Generator, portable	One
Group D		Dump truck, with grab, 5.5 tonne <gross td="" tonne<="" vehicle="" weight="" ≤38=""><td>One</td></gross>	One
Group E		Dump truck, 5.5 tonne <gross td="" tonne<="" vehicle="" weight≤38=""><td>One</td></gross>	One
		Mini Excavator	One
Group F	CNP 186	Roller, vibratory	One
	CNP 050	Compactor, vibratory	One
Group G		Lorry, with crane, 5.5 tonne< gross vehicle weight ≤ 38 tonne	One



Signed:

(CHENG Kai-wa) for Authority

Sheets Attached to Construction Noise Permit No. GW-RN0602-19

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

1. Subject to conditions 3.d.3 below, the powered mechanical equipment listed in condition 3.a. shall only be operated during the hours shown below:

Any day not being a general holiday	If the preceding day is a 2200 – 2400 hours general holiday	
	If the preceding day is not a	0000 - 0530 hours and
	general holiday	2200 – 2400 hours

- 2. The powered mechanical equipment listed in condition 3.a. of this Construction Noise Permit shall not be operated when any construction work covered by the Construction Noise Permits No. **GW-RN0600-19** is being carried out.
- 3. Breaker, hand-held (electric), with Noise Emission Label, showing a Sound Power Level ≤ 103dB(A), Saw, concrete (petrol) (CNP 203) and Mini Excavator shall not be operated between 2330 and 0530 hours on the next day.
- 4. Only one group of the powered mechanical equipment listed in condition 3.a. shall be allowed to be operated at any time.
- 5. Breaker, hand-held (electric), with Noise Emission Label, showing a Sound Power Level ≤ 103dB(A), Saw, concrete (petrol)(CNP 203) and Generator, portable (petrol) shall only be operated inside the transportable acoustic enclosure so that no part of such equipment is VISIBLE from any nearby noise sensitive receiver. The acoustic enclosure shall be composed of four side-panels and one top-panel. The panels shall be made of minimum 50mm thick sound absorbing lining and minimum 10mm thick plywood (or minimum 1mm thick steel) outer skin, or equivalent construction.
- 6. Breaker, hand-held (electric), with Noise Emission Label, showing a Sound Power Level ≤ 103dB(A) shall only be used for pavement removal within 300mm around manholes/channels or at other positions where there is access difficulty or where the use of quiet method is impracticable.
- 7. All flaps and panels of Roller, vibratory (CNP 186) shall be closed.
- 8. Roller, vibratory (CNP 186) shall be equipped with the following noise control measures:
 - minimum 50mm thick sound absorbing lining to the engine compartments as far as possible;
 - effective engine exhaust silencers; and
 - sound baffles comprised of minimum 50mm thick sound absorbing lining and 10mm thick plywood (or 1mm thick steel) backing mounted near all openings of the engine compartments so that there is no direct line of sight to the interior of the engine compartments.
- 9. The construction work in this Construction Noise Permit shall be appropriately supervised and monitored during all the time periods when the construction work is being carried out in order to control the noise nuisance caused.
- 10. All care shall be taken to ensure that the construction work is carried out as quickly as possible with due regard to the potential noise intrusion which may result.
- 11. Portable phones or walkie-talkies with headphones shall be used for site communication. No whistles, horns and loudspeakers shall be used. No shouting shall be allowed.
- 12. The construction work in relation to this Construction Noise Permit shall only be carried out with prior notification to the Authority of the location, date and time of the work as well as the details of work program (including the date and time for carrying out different phases or sequence of work) etc. Such notification shall be made by logging in the following webpage (http://cnp-advancenotification.hk) and submitting all information required. Such notification shall be made within 14 days but no less than 48 hours before commencement of work for every work location.

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Signed: _

(CHENG Kai-wa) for Authority

Sheets Attached to Construction Noise Permit No. GW-RN0602-19

4.d. Other conditions imposed on the carrying out of the prescribed construction work:

 The prescribed construction work listed in condition 4.a shall only be carried out during the hours shown below:

Any day not holiday	being a gener	al If the preceding day is a general holiday	2200 – 2400 hours
nonday		If the preceding day is not a general holiday	0000 – 0530 hours and 2200 – 2400 hours

- The prescribed construction work listed in condition 4.a of this Construction Noise Permit shall not be carried
 out when any construction work covered by the Construction Noise Permits No. GW-RN0602-19 is being carried
 out.
- 3. Rubber paddings or sheeting of minimum 10mm thick, or appropriate resilient materials shall be placed between hard surfaces when carrying out the loading, unloading or handling of rubble (PCW002).
- 4. The construction work in this Construction Noise Permit shall be appropriately supervised and monitored during all the time periods when the construction work is being carried out in order to control the noise nuisance caused.
- 5. Portable phones or walkie talkies with headphones shall be used for site communication. No whistles, horns and loudspeakers shall be used. No shouting shall be allowed.
- 6. All care shall be taken to ensure that the construction work is carried out as quickly as possible with due regard for the potential noise intrusion which may result.
- 7. The construction work in relation to this Construction Noise Permit shall only be carried out with prior notification to the Authority of the location, date and time of the work as well as the details of work program (including the date and time for carrying out different phases or sequence of work) etc. Such notification shall be made by logging in the following webpage (http://cnp-advancenotification.hk) and submitting all information required. Such notification shall be made within 14 days but no less than 48 hours before commencement of work for every work location.

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Signed:

(CHENG Kai-wa) for Authority

建築噪音許可證 第 GW-RN0602-19 號之附頁

3.a. 在地盤範圍內可使用的各項機動設備:

各項機動設備的識辨代碼 (如適用的話)		各項機動設備的說明	數目
Group A	CNP 203	混凝土鋸 (汽油)	
Group B		小型挖土機	壹
Group C		破碎機,手提型(電動),備有噪音標籤顯示聲 功率級≦103分貝(A)	壹
		發電機,手提型	壹
Group D		抓斗卸土車,5.5 噸<總重量≤38 噸	壹
Group E		卸土車,5.5 噸<總重量≤38 噸	壹
		小型挖土機	壹
Group F	CNP 186	滾壓機震盪型	壹
	CNP 050	壓實機,震動式	壹
Group G	222	吊臂貨車, 5.5 噸<總重量≤38 噸	壹



原網

簽署:

監督 (鄭啟華 代行)

建築噪音許可證 第 GW-RN0602-19 號之附頁

3.d. 規限使用機動設備的其他條件:

1. 除以下條件 3.d.3 另有規定外, 祇可於以下時間使用列在條件 3.a.內的機動設備:

	如前一日是公眾假日	晚上十時 至 晚上十二時
公眾假日以外的任何一日	如前一日不是公眾假日	凌晨零時 至 上午五時三十分 及晚上十時 至 晚上十二時

- 2. 當進行建築噪音許可證編號 GW-RN0600-19 的建築工程時,不可使用此建築噪音許可證內列在條件3.a. 內的機動設備。
- 3. 破碎機,手提型(電動),備有噪音標籤顯示聲功率級≤103分貝(A),混凝土鋸 (汽油)(CNP 203)及小型挖土機不可在晚上十一時三十分至翌日上午五時三十分内使用。
- 4. 在任何時間內,祇可使用列在條件3.a.內的機動設備的其中一組。
- 5. 破碎機,手提型(電動),備有噪音標籤顯示聲功率級≤103分貝(A)、混凝土鋸(汽油)(CNP 203)及發電機,手提型(汽油)祇可在可搬運的隔音罩內操作,使該設備的任何部份均無法在任何鄰近噪音感應強的地方內見到。該隔音罩必須由四件側板障及一件上板障所組成及必須以不少於50毫米厚的吸音襯墊及不少於10毫米厚的木板或不少於1毫米厚的鋼板造成或同等效果的隔音物料造成。
- 6. 破碎機,手提型(電動),備有噪音標籤顯示聲功率級 ≤ 103分貝(A) 祗可在沙井/溝渠 300毫米範圍內用作移 除鋪路材料或在較難到達的地方或在不適合應用較寧靜的設備下使用。
- 7. 滾壓機震盪型(CNP 186)的所有覆蓋及嵌板必須關閉。
- 8. 在滾壓機震盪型(CNP 186)上,必須裝上下列的控制噪音措施:
 - 在引擎間格內盡量襯墊最少50毫米厚的吸音材料;
 - 有效的引擎死氣喉滅聲器;及
 - 在引擎間格的所有通氣出入口裝上隔音板障,該板障必須以不少於50毫米厚的吸音襯墊及10毫米厚的木板或1毫米厚的鐵板造成,以防止引擎的噪音直接散發於外間。
- 9. 進行此許可證有關工程時,此許可證持有人須適當地監督及監察整個工程的進行,確保工程噪音得到有效控制。
- 10. 持證人須確保竭力從速完成該等建築工程,並小心防範會引起的噪音干擾。
- 11. 地盤通訊必須使用手提電話或連耳筒對講機,不可使用哨子、號角及擴音器,不准喧嘩。
- 12. 在進行此建築噪音許可證內所載列的建築工程時,必須確保就每個施工地點於施工前48小時至施工前14日內,登入以下網上平台 (http://cnp-advancenotification.hk/tc) 並就每個施工地點於施工前48小時至施工前14日內填妥及提交有關施工地點、日期及時間、及施工程序安排(包括不同階段或工序施工 日期及時間的安排)等所需資料。



居行部 準炎(

簽署:

監督 (鄭啟華 代行)

建築噪音許可證 第 GW-RN0602-19 號之附頁

4.d. 規限進行訂明建築工程的其他條件:

1. 祇可於以下時間內進行列在條件 4.a 內的訂明建築工程:

	如前一日是公眾假日	晚上十時 至 晚上十二時
公眾假日以外的任何一日	如前一日不是公眾假日	凌晨零時 至 上午五時三十分 及晚上十時 至晚上十二時

- 2. 當進行建築噪音許可證編號 GW-RN0600-19 的建築工程時,不可進行此建築噪音許可證內列在條件 4.a 內的訂明建築工程。
- 3. 在進行裝卸或處理瓦礫(PCW 002)時,必須將不少於10毫米厚的膠墊或彈性襯墊分隔開硬物。
- 4. 進行此許可證有關工程時,此許可證持有人須適當地監督及監察整個工程的進行,確保工程噪音 得到有效控制。
- 5. 地盤通訊必須使用手提電話或連耳筒對講機,不可使用哨子、號角及擴音器,不准喧嘩。
- 6. 持證人須確保竭力從速完成該等建築工程,並小心防範會引起的噪音干擾。
- 7. 在進行此建築噪音許可證內所載列的建築工程時,必須確保就每個施工地點於施工前 48 小時至施工前 14 日內,登入以下網上平台 (http://cnp-advancenotification.hk/tc) 並就每個施工地點於施工前 48 小時至施工前 14 日 內填妥及提交有關施工地點、日期及時間、及施工程序安排(包括不同階段或工序施工 日期及時間的安排)等所需資料。





簽署:



Dump truck, 5.5 tonne<gross vehicle weight≦38 tonne 卸土車,5.5 噸< 總重量 ≦ 38 噸



Dump truck, with grab, 5.5 tonne<gross vehicle weight≤38 tonne 抓斗卸土車,5.5 噸<總重量≤38 噸



CNP 203 Saw, concrete (petrol) 混凝土鋸 (汽油)



Mini Excavator 小型挖土機

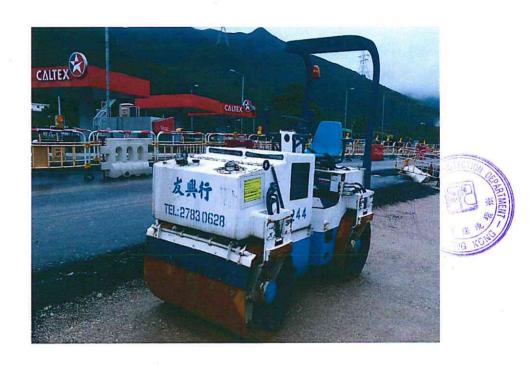


Breaker, hand-held (electric), with Noise Emission Label showing a Sound Power Level of $\leq 103 dB(A)$

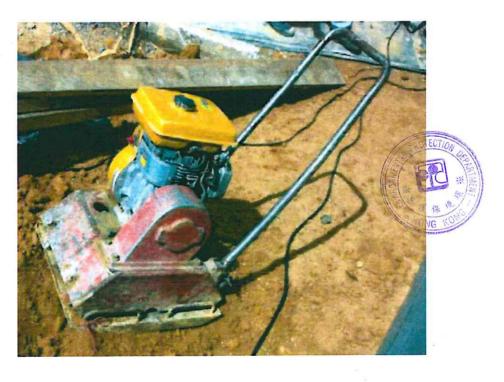
破碎機,手提型(電動),備有噪音標籤顯示聲功率級≤103分貝(A)



Generator, portable 發電機,手提型



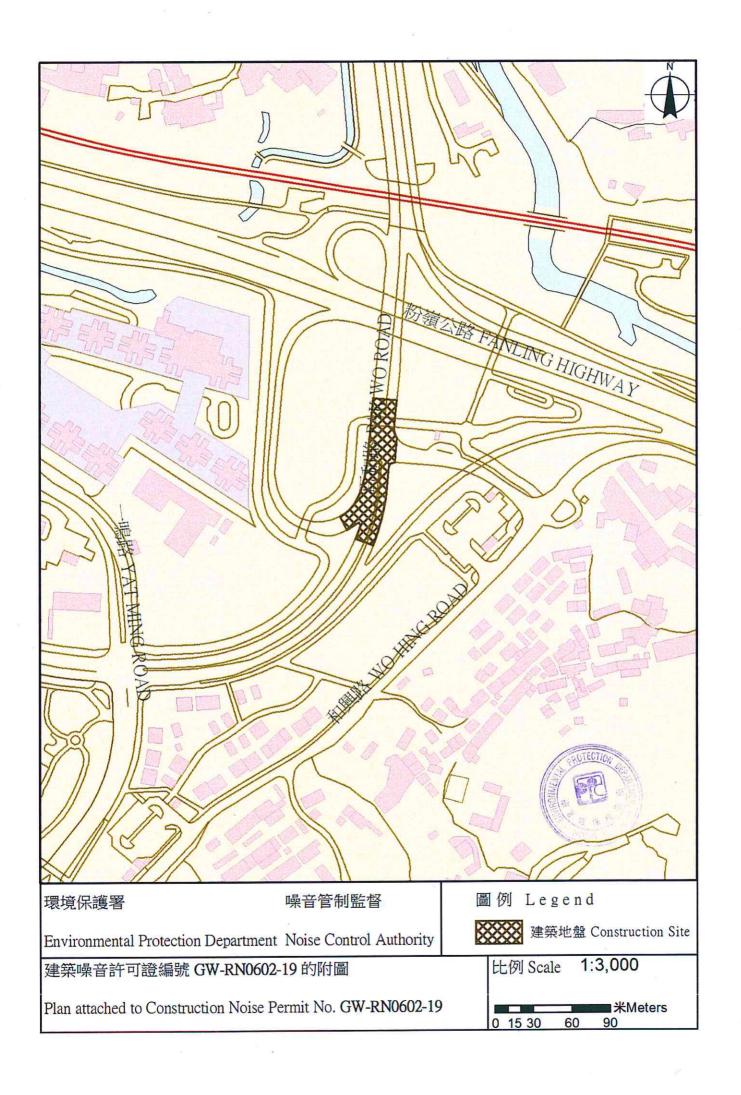
CNP 186 Roller, vibratory 滚壓機震盪型



CNP 050 Compactor, vibratory 壓實機,震動式



Lorry, with crane, 5.5 tonne< gross vehicle weight \leq 38 tonne 吊臂貨車,5.5 噸<總重量 \leq 38 噸



ATTACHMENT 2 - Complaint Reply from the Contractor

Chan, Yi Chun (Alex)

From: 曾川銘 < michael_tsang@cohl.com>

Sent: November 5, 2019 6:05 PM

To: Chan, Yi Chun (Alex)

Cc: 鍾發明; Poon, Chin Yu (CN - Hong Kong); samfung5555@yahoo.com.hk; 黃健明;

'RE-Benson Lam'; 'ARE-Warren Yeung'

Subject: RE: Receive of a Complaint Notification from EPD

Dear Alex,

The information you requested for complaint investigation is as below:

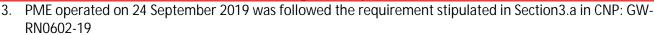
- 1. Major construction works:
 - Road resurfacing
 - Bridge roof, noise barrier and sign gantry installation
 - Landscape soft works

2. No similar works was executed in the morning on 27 September 2019

on 24 September night was followed CNP: GW-RN0602-16

According to the email reply of

Contractor, the PME operated



 The main activity was laying of cross road duct at Pak Wo Road. PME listed in CNP: GW-RN0602-19 were operated

5. No photos were taken on 24 September 2019

Regards,

Michael Tsang

From: 曾川銘

Sent: Thursday, October 31, 2019 6:27 PM To: 黃健明 <wongkinming@cohl.com>

Cc: 鍾發明 <fm_chung@cohl.com>; Poon, Chin Yu (CN - Hong Kong) <chinyu_poon@cohl.com>;

'samfung5555@yahoo.com.hk' <samfung5555@yahoo.com.hk> Subject: RE: Receive of a Complaint Notification from EPD

Dear Keith,

Would you please assign someone to provide the following information to me or reply directly to ET for assisting them to investigate the complaint?

Regards,

Michael

From: Chan, Yi Chun (Alex) [mailto:Alex.Chan1@aecom.com]

Sent: Wednesday, October 30, 2019 4:37 PM

To: 曾川銘 <michael_tsang@cohl.com>

1

Cc: 'RE-Benson Lam' < re.bensonlam@tolo3.com >; 'ARE-Warren Yeung' < are.warrenyeung@tolo3.com >; 鍾發明 < fm_chung@cohl.com >; 黃健明 < wongkinming@cohl.com >; Yeung, Charles < Charles.Yeung@mottmac.com >; alex.ho1@mottmac.com

Subject: RE: Receive of a Complaint Notification from EPD

Dear Michael,

To facilitate investigation for the construction noise complaint on 24 September 2019, could you please confirm or provide us the relevant information as shown below as soon as possible?

- Were the major construction works carried out from 23 September to 27 Sep 2019 mainly in the construction site?
- Were similar works undertaken within the work area on the monitoring day 27 September 2019?
- Which powered mechanical equipment were operated on 24 September 2019? Are they operated on the monitoring day 27 September 2019?
- The major construction works carried and PME operated on 24 September 2019 in "Zone 4 Laying of cross road duct at Pak Wo Road"? Are they operated on the monitoring day 27 September 2019?
- Any other related document or photo record?

Should you have any enquiry, please feel free to contact me.

Regard

Alex Chan Assistant Environmental Consultant 3922 8845

AECOM

15/F, Tower 1, Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories, Hong Kong aecom.com

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From: 曾川銘 <michael_tsang@cohl.com>

Sent: October 29, 2019 5:29 PM

To: Chan, Yi Chun (Alex) < Alex. Chan1@aecom.com>

Cc: 'RE-Benson Lam' <re.bensonlam@tolo3.com>; 'ARE-Warren Yeung' <are.warrenyeung@tolo3.com>; 鍾發明

<<u>fm_chung@cohl.com</u>>; 黃健明 <<u>wongkinming@cohl.com</u>>; Yeung, Charles <<u>Charles.Yeung@mottmac.com</u>>;

alex.ho1@mottmac.com

Subject: Receive of a Complaint Notification from EPD

Dear Alex.

We have just received a complaint notification from EPD regarding a noise complaint on 24 September 2019 and would like to inform you in according to the complaint procedure.

Regards,

Michael Tsang