AECOM

Environmental Protection Department

Contract No. HY/2012/06

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

Monthly EM&A Report For March 2018

[4/2018]

	Name		Signature
Prepared & Checked:	Sammi Lam	1	Gensla
Reviewed & Approved:	Y W Fung		N
			/
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AECOM Asia Co. Ltd. 15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com M MOTT MACDONALD

Hyder-Arup-Black & Veatch Joint Venture c/o Arcadis 20/F, AXA Tower, Landmark East, 100 How Ming Street, Kwun Tong, Hong Kong Attn: Mr. James Penny

Your Reference

Our Reference JFP/EC/ST/pl/T329380/22 .05/L-0212

20/F AIA Kowloon Tower Landmark East 100 How Ming Street Kwun Tong Kowloon Hong Kong

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 – March 2018 for the portion of Stage 2 works under Contract No. HY/2012/06

13 April 2018 By Fax (2805 5028) & Hand

We refer to the Monthly EM&A Report – March 2018 received on 12 April 2018 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – March 2018 (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

c.c. HyD AECOM

Mr. Ricky Yeung Mr. Y W Fung By Fax (2714 5198) By Fax (3922 9797)

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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)".

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 March 2018. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise Barrier
- Excavation
- Backfilling
- Drainage
- Foot Bridge demolition
- Bridge construction
- Piling

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in the reporting period were:

- Erection of NB panels
- Metal frame & roof cladding of bus shelter

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 1 March 2018 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;
 - 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.
- 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 fifty-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 March 2018.

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.

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]		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	-
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

Table 1.1 Contact Information of Key Personnel

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
 - Ground investigation
 - Pipe laying
 - Retaining wall construction
 - Noise Barrier
 - Excavation
 - Backfilling
 - Drainage
 - Foot Bridge demolition
 - Bridge construction
 - Piling

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- Erection of NB panels
- Metal frame & roof cladding of bus shelter
- 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	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.
 - (ix) 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 March 2018 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
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Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	66.8	61.6 – 72.3	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)	39.7	26.1 – 53.7	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
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Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	Rion NC-74

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. L_{eq} , L_{10} and L_{90} 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}, L₁₀ and L₉₀ 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 March 2018 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.

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),	
	L _{eq} (30 mins)	L _{eq} (30 mins)	L _{eq} (30 mins)	
M2* (West Tai Wo)	67.3	66.0 - 67.8	75	
M3 [#] (Fanling Government Secondary School)	64.9	60.5 – 66.1	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 6, 15, 20 and 27 March 2018 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 cover the exposed stockpile of dusty materials at SA346 entirely with impervious sheeting for dust suppression.
- 4.1.5 The Contractor was reminded to clean up the dust on public access road at Tai Wo Service Road West regularly.
- 4.1.6 Exposed stockpiles of dusty materials were observed at SA340 and SA329. The Contractor was advised to cover the stockpiles entirely with impervious sheeting for dust suppression.
- 4.1.7 Mud trail and dusty materials were observed near vehicle exit points at NB60. The Contractor was advised to clear the dusty materials and pave the wheel washing area with hardcore.

Noise

4.1.8 No adverse observation was identified in the reporting period.

Water Quality

4.1.9 Public access road near site boundary was observed dusty at SA310. The Contractor was advised to clean up the road and implement effective measures to prevent muddy surface runoff being spilled from the site to public area.

Chemical and Waste Management

- 4.1.10 Chemical containers without secondary containment were observed at SA340. The Contractor was advised to provide drip tray for the chemical containers to avoid potential leakage.
- 4.1.11 The Contractor was reminded to plug the opening of the drip tray observed at NB60 to prevent potential leakage.

Landscape and Visual Impact

4.1.12 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.13 No adverse observation was identified in the reporting period.

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Air Quality

4.1.14 Exposed stockpile of dusty materials without proper cover was observed. The Contractor was advised to cover the stockpile entirely with impervious sheeting.

Noise

4.1.15 No adverse observation was identified in the reporting period.

Water Quality

4.1.16 No adverse observation was identified in the reporting period.

Chemical and Waste Management

4.1.17 No adverse observation was identified in the reporting period.

Landscape and Visual Impact

4.1.18 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.19 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, 3,781 m³ of inert C&D material was generated in the reporting month (806 m³ disposed of as public fill to Tuen Mun 38, 1,355 m³ of inert C&D materials was reused on site, 1,068 m³ of inert C&D materials was reused in other projects and 552 m³ was broken concrete). For C&D wastes, 85 m³ of general refuse was disposed of at NENT landfill, 59 kg of paper/cardboard packaging, 1,225 kg of plastics and 13,324 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.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	806 m ³	Tuen Mun 38
Broken concrete	552 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	85 m ³	NENT Landfill
Paper/cardboard packaging	59 kg	Recycling Facilities
Plastics	1,225 kg	Recycling Facilities
Metals	13,324 kg	Recycling Facilities
C&D materials reused on site	1,355 m ³	Site Area
C&D materials reused in other projects	1,068 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

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

- 4.2.4 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 1 m³ of inert C&D material was generated in the reporting month (0 m³ disposed of as public fill to Tuen Mun 38, 0 m³ of inert C&D materials was reused on site, 0 m³ of inert C&D materials was reused in other projects and 1 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 1 kg of paper/cardboard packaging, 1 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.
- 4.2.5 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.2.

Table 4.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos.CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	0 m ³	Tuen Mun 38
Broken concrete	1 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	1 kg	Recycling Facilities
Plastics	1 kg	Recycling Facilities

Waste Type	Actual Amount	Disposal/Reuse Locations
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects

4.2.6 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 4.3.

Statutory	License/ Permit	License or			License / Permit	Remarks
Reference		Permit No.	From	То	Holder	
EIAO	Environmental Permit	EP-324/2008/E	26/01/2017	N/A	HyD	
WPCO	Discharge	WT00017159- 2013	18/09/2013	30/09/2018	CSHK	
WFCO	License (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
	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	APCO Control (Construction Dust) Regulation	414360	08/03/2017	N/A	Chiu Hing	
	NCO Construction	GW-RN0790-17	09/12/2017	22/03/2018	СЅНК	Zone 2A Deck Concreting for THFB
NCO		GW-RN0792-17	17/12/2017	18/03/2018	CSHK	Zone 2 Road Marking Alternation Between CH21.7 and CH22.5
		GW-RN0802-17	12/12/2017	22/03/2018	CSHK	Zone 4 Road Marking Alternation at

 Table 4.3
 Summary of Environmental Licensing and Permit Status

Statutory	License/	License or	Valid	Valid Period		Remarks
Reference	Reference Permit	Permit No.	From	То	/ Permit Holder	
						SB of Fanling Highway between CH23.4 and CH23.9
		GW-RN0804-17	21/12/2017	29/03/2018	СЅНК	Zone 1 Manhole Adjustment at Slip Rd from Hong Lok Yuen to Northbound of Fanling Highway
		GW-RN0814-17	21/12/2017	20/03/2018	СЅНК	Zone 2B Installation of Temporary Tai Wo Footbridge
		GW-RN0829-17	07/01/2017	15/04/2018	СЅНК	Zone 2A Concreting for TH FB3 & TH RP2
		GW-RN0007-18	14/01/2018	04/02/2018	СЅНК	Zone 4 Road Marking Alternation at SB of Fanling Highway between CH23.4 and CH23.9
		GW-RN0021-18	28/01/2018	03/06/2018	СЅНК	Zone 1 & 2A Road Marking Alternation at Northboound of Fanling Highway between CH21.7 and CH22.5
		GW-RN0026-18	25/01/2018	09/06/2018	СЅНК	Zone 2A Demolition of Tai Hang Bridge
		GW-RN0028-18	28/01/2018	08/04/2018	СЅНК	Zone 2B Road Resurfacing at Northbound of Fanling Highway between CH21.8 and CH22.5
		GW-RN0029-18	28/01/2018	25/03/2018	СЅНК	Zone 2B Installation of Bridge Tower next to MTR

Statutory	License/	License or	Valid	Valid Period		Remarks
Reference	Permit	Permit No.	From	То	/ Permit Holder	
						Track
		GW-RN0032-18	04/02/2018	03/06/2018	СЅНК	Zone 1 & 2A Road Marking Alternation at Northboound of Fanling Highway_ Between CH21.3 and CH21.8
		GW-RN0034-18	29/01/2018	02/06/2018	CSHK	Zone 4 Drain Rehabilitation
		GW-RN0037-18	04/02/2018	03/06/2018	СЅНК	Zone 4 Road Marking Alternation at SB of Fanling Highway between CH23.4 and CH24.0
		GW-RN0041-18	06/02/2018	07/06/2018	СЅНК	Zone 1 & 2 Road Resurfacing at SB of Fanling Highway_betwe en CH21.4 and CH22.5
	GW-RN0045-18	11/02/2018	10/06/2018	СЅНК	Zone 1 & 2 Road Marking Alternation at SB of Fanling Highway_betwe en CH21.3 and CH22.5	
		GW-RN0081-18	23/02/2018	26/04/2018	СЅНК	Zone 2B Demolition of Tai Wo Footbridge
		GW-RN0116-18	29/03/2018	31/05/2018	СЅНК	Zone 2B Welding works for of Bridge Tower next to MTR Track

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 1 March 2018 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 A complaint was received by the 1823 enquiry and complaint hotline on 25 February 2017. The complaint was referred to the Environmental Team by the Contractor on 1 March 2018.
- 4.6.5 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.
- 4.6.6 The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.
- 4.6.7 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 April 2018 will be:-
 - Site clearance
 - Ground investigation
 - Pipe laying
 - Retaining wall construction
 - Noise Barrier
 - Excavation
 - Backfilling
 - Drainage
 - Foot Bridge demolition
 - Bridge construction
 - Piling
- 5.1.2 The major construction works for Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in April 2018 will be:-
 - Construction of footpath & bus lay-by
 - Installation of lighting facilities
 - KMB works

5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in April 2018:-
 - 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 April 2018 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 March 2018. 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 1 March 2018 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 advised to cover the exposed stockpile of dusty materials entirely with impervious sheeting for dust suppression.
- The Contractor was advised to clean up the dust on public access road regularly.
- The Contractor was advised to clear the dusty materials near vehicle exit points and pave the wheel washing area with hardcore.

Noise Impact

• No adverse observation was identified in the reporting period.

Water Quality Impact

• The Contractor was advised to clean up the public access road near site boundary and implement effective measures to prevent muddy surface runoff being spilled from the site to public area.

Chemical and Waste Management

- The Contractor was advised to provide drip tray for the chemical containers to avoid potential leakage.
- The Contractor was advised to plug the opening of the drip tray to prevent potential leakage.

Landscape and Visual Impact.

• No adverse observation was identified in the reporting period.

Miscellaneous

• The Contractor.

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Air Quality Impact

• The Contractor was advised to cover the exposed stockpile of dusty materials entirely with impervious sheeting.

Noise Impact

• No adverse observation was identified in the reporting period.

Water Quality Impact

• No adverse observation was identified in the reporting period.

Chemical and Waste Management

• No adverse observation was identified in the reporting period.

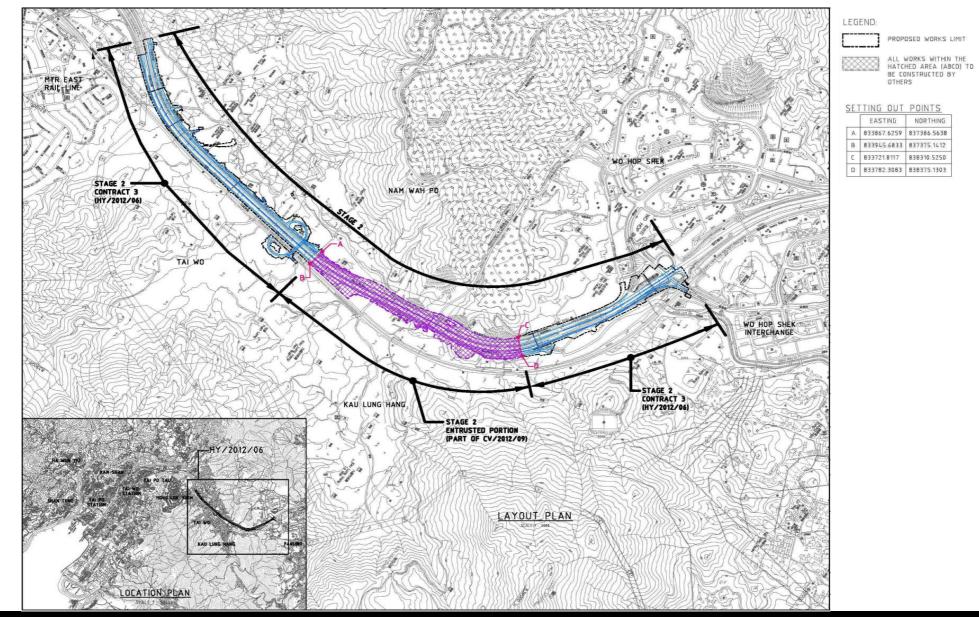
Landscape and Visual Impact.

• No adverse observation was identified in the reporting period.

Miscellaneous

• No adverse observation was identified in the reporting period.

FIGURES

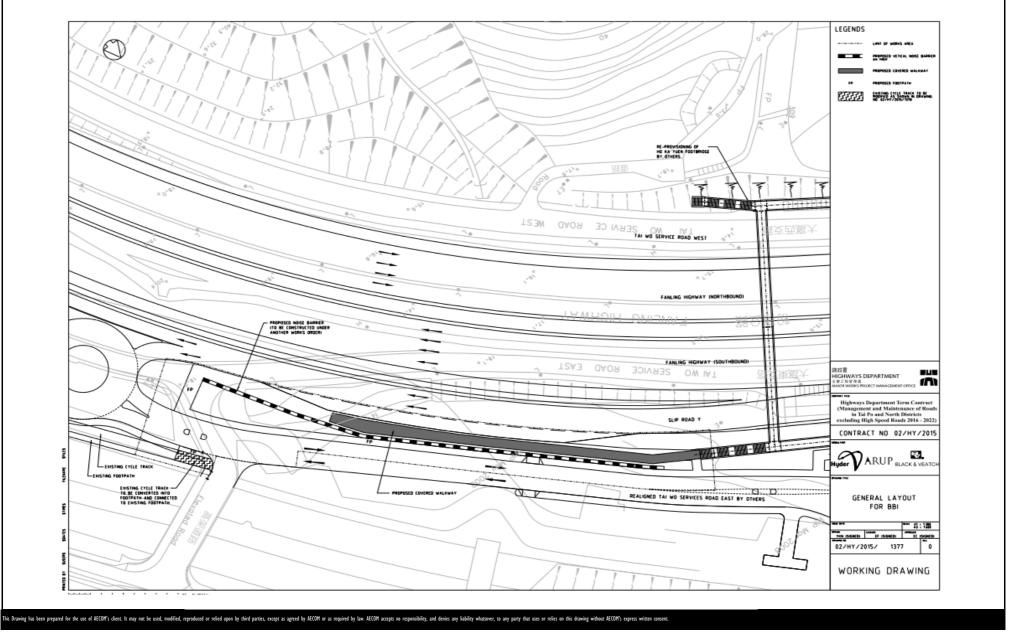


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



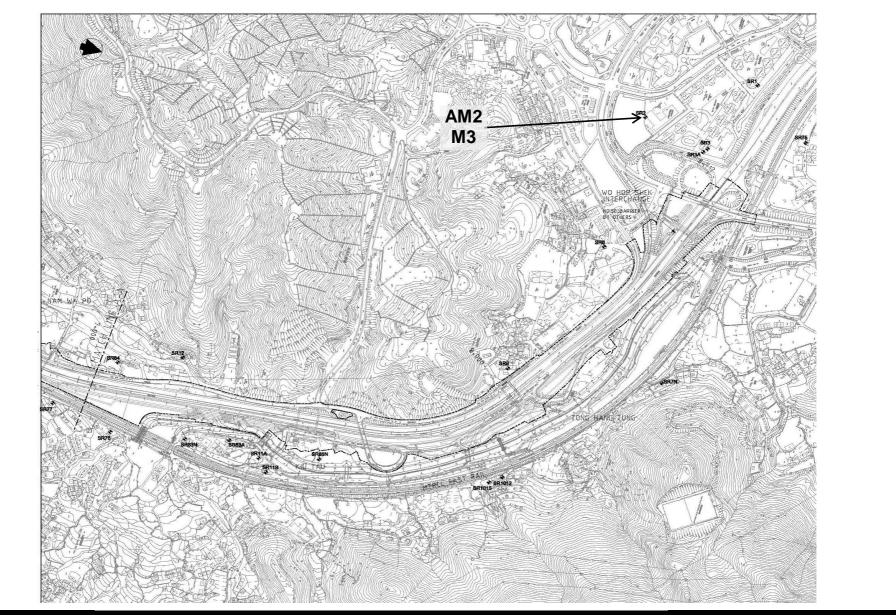
Layout Plan



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



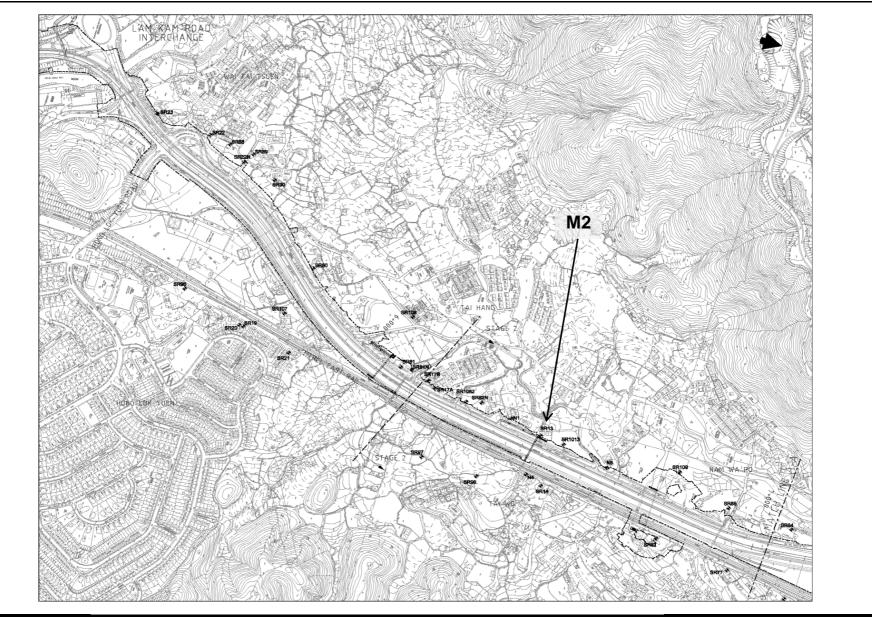


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

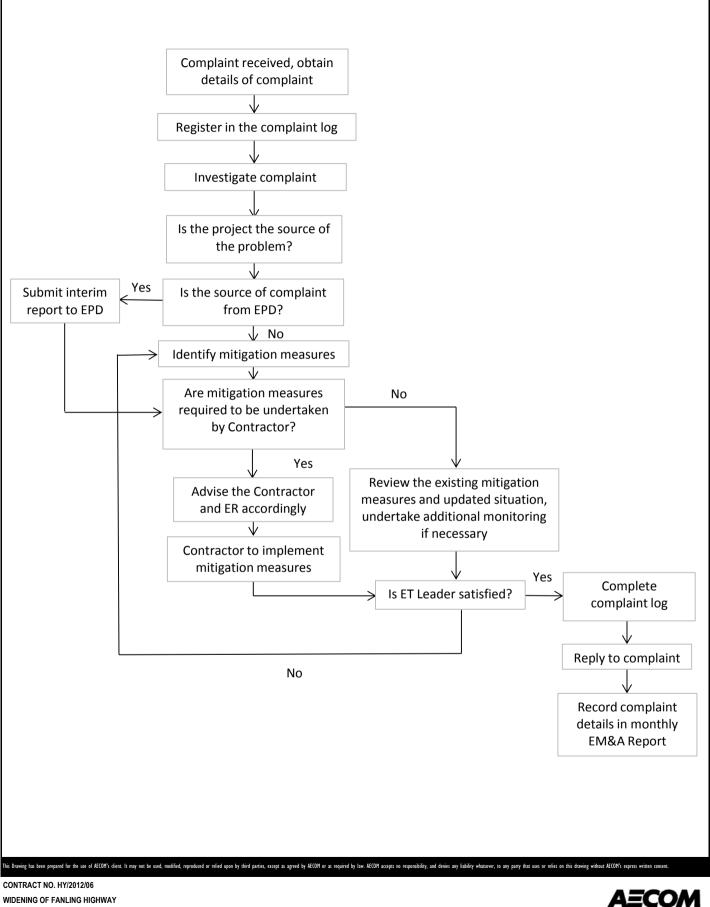


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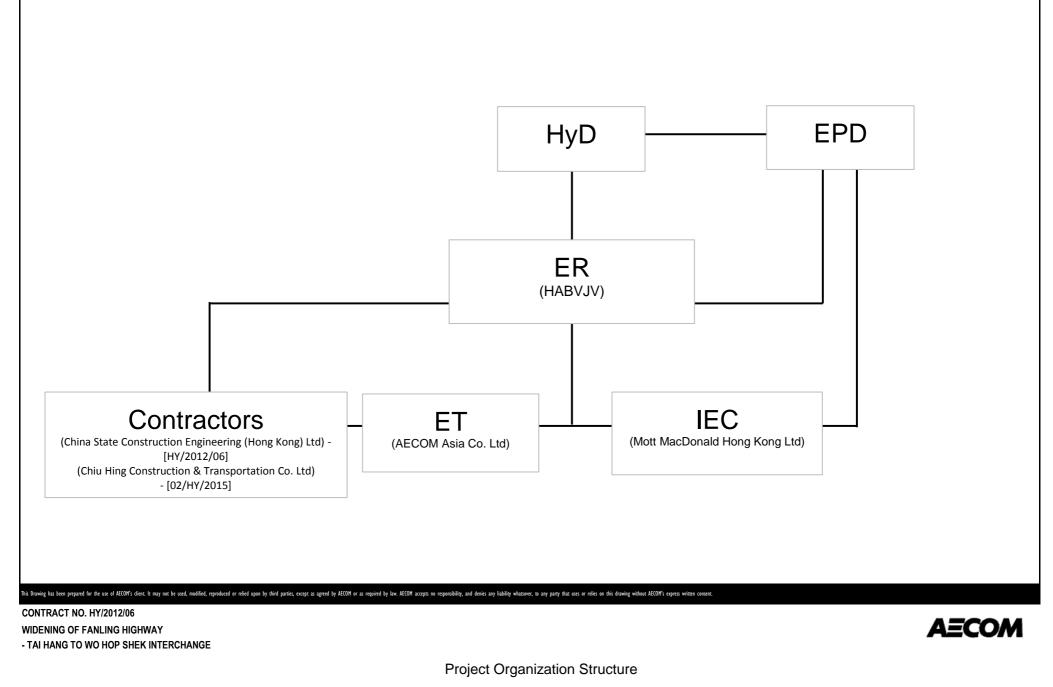


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

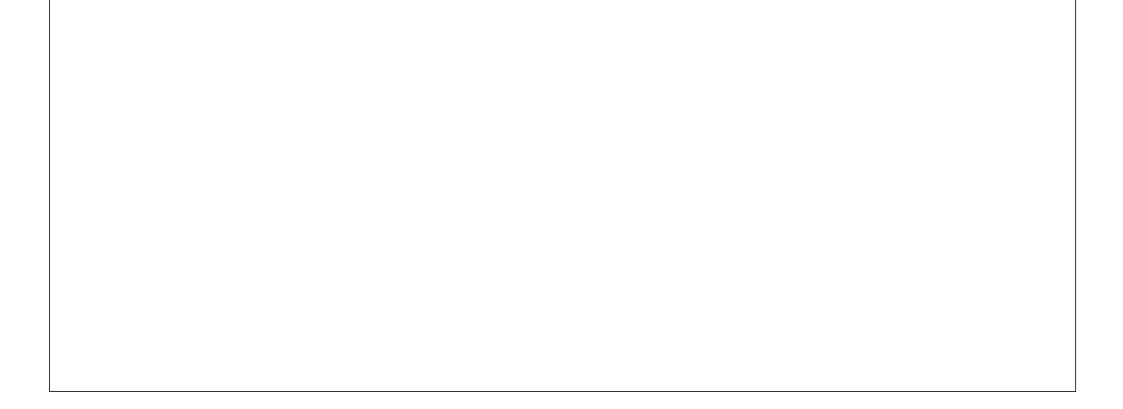
iy ID	Activity Name	Dur. %	Rem. O	riginal	Start	Finish	g Progr					Page 1	
		Complete	Duration D	uration			Float		Mar		2018 Apr	May	Jun
ontract C	ondition												
Seneral											1 1 1 1		
Contract Co Contract C											1 1 1 1		
KD14	KD-14 1523d) - S4:Achievement: Rd widening of Fanling Highway @	0%	0	0		20-Mar-18	84		20-Mar-18*	♦ KD-14 1	523d) - S4:Achievement: Rd	widening of Fanling Highwa	y @ SBZ1 (
POSSA323A	Site Area SA323A (360d) (not	0%	0	0	20-Mar-18		842			Site Area	SA323A (360d) (not require	ęd)	
POSSA327	required) Site Area SA327 (180d)	0%	0	0	20-Mar-18*		-1174			Site Area	SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Mar-18*		-976			Site Area	SA327A (730d)		
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Mar-18*		-841			Site Area	SA345 (0d)	· 	
	h. 5640 to 5880)												
	ier Along Fanling Highway	v N/B									- 		
VB43B (Ch.	5640-5880)-FH N/B Side										 		
Noise Barr NB01220	ier Works NB43B-1 - Footing & Wall Structure	35%	26	40	08-Jan-18 A	23-Apr-18	-2						
NB01225	NB43B-1 (0-100m) - Drainage	0%	20	24	24-Apr-18	23-May-18							
NB01223	Works NB43B-1 - backfilling			12	24-Apr-18	06-Jun-18							
		0%	12		-								
NB01240	NB43B-1 - NB production	0%	45	45	24-Apr-18	07-Jun-18							
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	08-Jun-18	13-Jun-18					 	· · ·	
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	13-Jan-18 A								
NB01275	NB43B-2 (100-200m) - Drainage Works	0%	24	24	24-May-18	21-Jun-18							
NB01290	NB43B-2 - NB production	0%	45	45	11-May-18	24-Jun-18							
NB01320	NB43B-3 - Footing & Wall Structure	36.07%	39	61	25-Nov-17 A								
NB01340	NB43B-3 - NB production	0%	45	45	10-May-18	23-Jun-18	331						
	h. 5880 to 6930)												
Seneral											 		
DRM Propos DRM Propo													- -
ADVZ20284	Demolish existing TW bridge & TH bridge	10%	9	10	27-Feb-18 A	03-Apr-18	5						
ADVZ20285	Road work for Lane 2,3,4 from TH to	0%	8	8	06-Apr-18	14-Apr-18	4						
ADVZ20286	TW bridge Road work for TWSR-W to FLHY	0%	1	1	16-Apr-18	16-Apr-18	4				I		
ADVZ20288	transition TTA stage 3 - All N/B NB working	0%	0	0	17-Apr-18		4				♦ TTA stage	3 - All N/B NB working space	available
ADVZ20290	space available NB at FLHY N/B construction Period	31.33%	206	300	20-Nov-17 A	27-Nov-18	-2			v			
ADVZ20310	(Zone 2) NB at FLHY N/B construction Period	46.34%	110	205	05-Oct-17 A	03-Aug-18	40			v			
loico Parri	(Zone 1) ier Along TWSR-West and			iac							- - - - -		-
	6290-6350)-1995R 996ST 5108	Э		162							1 1 1 1	 	
	6290-6350)-TWSR West Side ier Works	9		.162							 		
Noise Barr NB00790		9 0%	10	5	15-Jan-18 A	03-Apr-18	320						
Noise Barr NB00790	ier Works	0%			15-Jan-18 A	03-Apr-18	320						
Noise Barr NB00790 Ioise Barri NB43A (Ch.	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side	0%			15-Jan-18 A	03-Apr-18	320						
Noise Barr NB00790 Ioise Barri NB43A (Ch.	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side	0%			15-Jan-18 A	03-Apr-18							
Noise Barr NB00790 Ioise Barri NB43A (Ch.: Noise Barr NB001080	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rigs	0% y N/B 0%	10	5 18	20-Mar-18	13-Apr-18	22						
Noise Barr NB00790 Ioise Barri NB43A (Ch.: Noise Barr NB001080 NB001090	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation	0% y N/B 0% 0%	10 18 10	5 18 10	20-Mar-18 11-May-18	13-Apr-18 23-May-18	22 6						
Noise Barr NB00790 Ioise Barri NB43A (Ch.: Noise Barr NB001080 NB001090 NB001100	ier Works NB54A - NB post & panel installation er Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A - ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure	0% y N/B 0% 0%	10 18 10 40	5 18 10 40	20-Mar-18 11-May-18 24-May-18	13-Apr-18 23-May-18 11-Jul-18	22 6 6						
Noise Barr NB00790 Ioise Barri NB43A (Ch.: NB031080 NB001090 NB001100 NB001520	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure NB43A-1 - Footing & Wall Structure	0% y N/B 0% 0% 0% 55.56%	10 18 18 10 40 36	5 18 10 40 81	20-Mar-18 11-May-18 24-May-18 25-Nov-17 A	13-Apr-18 23-May-18 11-Jul-18 05-May-18	22 6 6 6						
Noise Barr NB00790 Ioise Barri NB43A (Ch. Noise Barr NB001080 NB001090 NB001000 NB001520 NB01540	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A - ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure NB43A-1 - Footing & Wall Structure NB43A-1 - NB production	0% y N/B 0% 0% 55.56% 0%	10 18 10 40 36 45	5 18 10 40 81 45	20-Mar-18 11-May-18 24-May-18 25-Nov-17 A 05-May-18	13-Apr-18 23-May-18 11-Jul-18 05-May-18 19-Jun-18	22 6 6 6 310						
Noise Barr NB00790 Ioise Barri NB43A (Ch. NB001080 NB001090 NB001000 NB001520 NB01520 NB01540 NB01560	ier Works NB54A - NB post & panel installation ier Along Fanling Highway 5880-6060)-FH N/B Side ier Works NB43A - ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure NB43A-1 - Footing & Wall Structure NB43A-1 - NB production NB43A-2 (86.8-166.7m) - Sheet piling & Excavation	0% y N/B 0% 0% 0% 55.56% 0%	10 18 10 40 36 45 18	5 18 10 40 81 45 18	20-Mar-18 11-May-18 24-May-18 25-Nov-17 A 05-May-18 07-May-18	13-Apr-18 23-May-18 11-Jul-18 05-May-18 19-Jun-18 28-May-18	22 6 6 6 310 6						
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Noise Barri NB00790 Ioise Barri NB43A (Ch. Noise Barri NB001080 NB01090 NB01100 NB01520 NB01520 NB01560 NB01570 NB50 (Ch.60 NB01160 NB01160 NB01170 NB001230 NB01230 NB01606 NB01656 NB01656 NB01706 NB01710 NB01720 NB01720 NB60 (Ch.64 NB01720 NB01720 NB60 (Ch.64 NB01720 NB60 (Ch.64 NB01720 NB01840 NB01850 NB01860	ier Works NB54A - NB post & panel installation NB54A - NB post & panel installation NB54A - NB post & panel installation NB43A - ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure NB43A-1 - NB production NB43A-2 (86.8-166.7m) - Sheet piling & Excavation NB43A-2 - Footing & Wall Structure O60-6130)-FH N/B Side ier Works NB50 -piling (0.19m -28no) NB50 -Sheet piling & Excavation NB50 -Footing & Wall Structure 6130-6450)-FH N/B Side ier Works NB50A - ID2-2 piling (0.19m -18no) NB50A - ID2-2 piling (0.19m -18no) NB50A - ID2-2 piling (0.19m -18no) NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos) NB50A (228-309m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos) NB50A (228-309m)(NB50A/2-S5, 0.19m -18nos) & ADS1 (8nos)Piling NB50A (228-309m)(NB50A/2-S5, 0.19m -18nos) & ADS1 (8nos)Piling NB50A (226-311m) - Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m)(NB60/5-15, 0.19m -64nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) - Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.1	0% X 0%	10 18 10 40 40 40 40 40 40 40 40 40 4	5 18 10 40 81 40 40 40 40 40 40 40 40 40 40	20-Mar-18 11-May-18 24-May-18 25-Nov-17 A 05-May-18 29-May-18 29-May-18 29-May-18 21-May-18 08-Jun-18 12-Jun-18 12-Jun-18 17-Apr-18 17-Apr-18 17-Apr-18 13-May-18	13-Apr-18 13-Apr-18 23-May-18 11-Jul-18 05-May-18 19-Jun-18 28-May-18 07-Jun-18 19-May-18 07-Jun-18 28-May-18 19-May-18 26-Jun-18 26-Jun-18 19-Jun-18 26-Jun-18 30-Jul-18 30-Jul-18	22 6 6 310 6 310 6 4 21 21 4 4 21 21 4 4 4 4 0 6 4 4 0 0 6 4 7 4 20 6 4 20 6 4 20 6 4 20 20 20 20 20 20 20 20 20 20 20	lang f	to Wo Hop S			Date R 28-Aug-15 WH 07-Apr-16 WH 08-Nov-16 WH	Revision (P Rev 2 P Rev 3 P Rev 4
Noise Barr NB00790 Ioise Barri NB43A (Ch.: NB001080 NB001080 NB001090 NB001090 NB01520 NB01520 NB01520 NB01520 NB01520 NB01520 NB01520 NB0150 NB0150 NB0150 NB01170 NB001120 NB001220 NB01606 NB01606 NB01706 NB017070 NB01708 NB01700 NB01700 NB01700 NB01700 NB01700 NB01700 NB01800 NB01850 NB01860	ier Works NB54A - NB post & panel installation NB54A - NB post & panel installation NB54A - NB post & panel installation NB43A - ID1-2 piling (0.19m -18no)-1 rigs NB43A - ID1-2 Sheet piling & Excavation NB43A - ID1-2 Footing & Wall Structure NB43A-1 - NB production NB43A-2 (86.8-166.7m) - Sheet piling & Excavation NB43A-2 - Footing & Wall Structure O60-6130)-FH N/B Side ier Works NB50 -piling (0.19m -28no) NB50 -Sheet piling & Excavation NB50 -Footing & Wall Structure 6130-6450)-FH N/B Side ier Works NB50A - ID2-2 piling (0.19m -18no) NB50A - ID2-2 piling (0.19m -18no) NB50A - ID2-2 piling (0.19m -18no) NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos) NB50A (228-309m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos) NB50A (228-309m)(NB50A/2-S5, 0.19m -18nos) & ADS1 (8nos)Piling NB50A (228-309m)(NB50A/2-S5, 0.19m -18nos) & ADS1 (8nos)Piling NB50A (226-311m) - Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m)(NB60/5-15, 0.19m -64nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) - Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling NB60-2 (63-174m) Sheet piling & Excavation NB60 (15-63m)(NB60/1-4, 0.1	0% X 0%	10 18 10 40 40 40 40 40 40 40 40 40 4	5 18 10 40 81 40 40 40 40 40 40 40 40 40 40	20-Mar-18 11-May-18 24-May-18 25-Nov-17 A 05-May-18 29-May-18 29-May-18 29-May-18 21-May-18 08-Jun-18 12-Jun-18 12-Jun-18 17-Apr-18 17-Apr-18 17-Apr-18 13-May-18	13-Apr-18 13-Apr-18 23-May-18 11-Jul-18 05-May-18 19-Jun-18 28-May-18 07-Jun-18 19-May-18 07-Jun-18 28-May-18 19-May-18 26-Jun-18 26-Jun-18 19-Jun-18 26-Jun-18 30-Jul-18 30-Jul-18	22 6 6 310 6 310 6 4 21 21 4 4 21 21 4 4 4 4 0 6 4 4 0 0 6 4 7 4 20 6 4 20 6 4 20 6 4 20 20 20 20 20 20 20 20 20 20 20	lang f				Date R 28-Aug-15 WF 07-Apr-16 WF 08-Nov-16 WF 17-Aug-17 WF	Revision (P Rev 2 P Rev 3

ty ID	s Update)(20-Mar-18)	Dur. %	Rem	Original	Start	Finish	g Progi					
		Complete	Duration [Duration	Clart	- mon	Float		Mar	Ar	2018	May Jun
NB01910	NB60 ID3-2 (174-192m) 0.19m	33.33%	12	18	15-Mar-18 A	06-Apr-18	19					indy out
NB01920	-18nos Piling NB60-ID3-2 ((174-192m) - Sheet	0%	18	18	07-Apr-18	27-Apr-18	19					
NB01930	piling & Excavation NB60-ID3-2 - Footing & Wall	0%	50	50	28-Apr-18	28-Jun-18	70					
NB01980	Structure NB60 (192-300m)(NB60/16-25,	50%	20	40	01-Feb-18A	16-Apr-18	29					
	0.19m -40nos) Piling										·	
NB01990	NB60-3 (192-300m) - Sheet piling & Excavation	0%	15	15	28-Apr-18	16-May-18	19					
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	0%	60	60	17-May-18	28-Jul-18	19					
ridge Con												
	ng Footbridge											
	st/ FL Highway N/B Side See											
THBF0620	Finishes Work	79.15%	64	307	27-Feb-17 A	08-Jun-18	266					
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		08-Jun-18	266					08-Jun-18 ♦ Bri
Crossing F	anling Highway Section											
THBF0590	Finishes Work	0%	60	60	20-Mar-18	04-Jun-18	270					
THBF0600	Bridge Structure complete	0%	0	0		04-Jun-18	270					04-Jun-1¦8 ♦ Bridge
	(THFB-Cross fanling highway)	ion										
THBF0470	t FL Highway S/B Side Sect THAB1 - pile cap & abutment wall	88.97%	45	408	21-Nov-16 A	12-Jul-18	159					i
THBF0800	ABWF work	0%	30	30	20-Mar-18	27-Apr-18	300					
		0 78		30	20-11181-10	27-Api-10	300					
Lift at TWS		00/	20	20	20 Mar 19	07 Apr 10	107					
L1530	Structural Laminated glass wall installation	0%	30	30	20-Mar-18	27-Apr-18						
L1550	Metal cover on RC platform	0%	30	30	20-Mar-18	27-Apr-18	180					
L1555	Glass canopy on ground level	0%	30	30	28-Apr-18	04-Jun-18	270				<u>-</u>	
L1560	Lift installation (NF115)	0%	70	70	28-Apr-18	23-Jul-18	197				i	
L1590	E&M and Finishes work	0%			· .							
		υ%	120	120	28-Apr-18	19-Sep-18	100					
Lift at FLH		00.000			00.0	47.1	0.5					
L1370	Lift shaft & roof	88.89%	46	414	20-Sep-16 A	17-May-18	80					
L1380	Structural Laminated glass wall installation	0%	30	30	18-May-18	23-Jun-18	110					
L1390	RC Platform connect to bridge	0%	30	30	18-May-18	23-Jun-18	80					
L1450	(THSC-2 & TH-P2) CLP Power available (by CLP)	84.14%	92	580	21-Jun-16 A	19-Jun-18	223					
	Footbridge											
General TWFB1090	Steel Bridge prefabrication (TWFB)	91.49%	37	435	15-Aug-16 A	07-Mav-18	158					
					Ū						▲ C+/	el Bridge available on site (T
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	08-May-18		158				◆ 500	er bridge available on sile (1
	st/ FL Highway N/B Side See											
TWFB1390	Finishes Work	75.11%	59	237	20-May-17 A	02-Jun-18	257					
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		02-Jun-18	257					02-Jun-18 ♦ Bridge S
Crossina F	anling Highway Section					1	1					
TWFB1440	TWP2 - Pile cap	0%	30	30	17-Apr-18	23-May-18	86				· · · · · · · · · · · · · · · · · · ·	
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	24-May-18	17-Jul-18	86					
				-				 				
TWSR-East TWFB1480	t FL Highway S/B Side Sect Precautionary work for MTRC I&P	53.33%	21	45	20-Feb-18 A	17-Apr-18	81					
	area											
TWFB1550	TWP3 - Pre-bored H pile (6 nos)	0%	18	18		09-May-18						
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	10-May-18	08-Aug-18	81					
ift at TWS												
L1680	Structural Laminated glass wall installation	6.67%	28	30	17-Mar-18 A	25-Apr-18	181					
L1690	RC Link slab connect to bridge	6.67%	28	30	17-Mar-18 A	25-Apr-18	138					
L1700	Metal cover on RC platform	0%	30	30	26-Apr-18	01-Jun-18	138					
	·				•							T
L1710	Glass canopy on ground level	0%	30	30		09-Jul-18	595					
L1730	Lift submission & ordering period	0%	120	120	20-Mar-18	17-Jul-18	136					
L1770	E&M and Finishes work	0%	120	120	02-Jun-18	25-Oct-18	138					
L1780	CLP Power available (by CLP)	80.15%	105	529	20-Aug-16 A	02-Jul-18	239					
omolition												
	of Existing Tai Wo Footbridge											
	Demolish existing Tai Wo	0%	10	4	20-Mar-18 A	03-Apr-18	5					
TWFB-DF1110	Footbridge Demolish existing Tai Wo	0%	0	0		03-Apr-18	5			03-Apr-18 Demolish	existing Tai Wo Footbrid	ge complete (across FH)
	Footbridge complete (across FH)	0 /0	0	J		55 / pi-10	5					
gnalized												
	ng Footbridge	4										
WSR-Wes THBF0670	t/ FL Highway N/B Side Sec E-prom ordering by EMSD (Tai hang	ction 0%	90	90	03-Jun-18	31-Aug-18	128					
	Junction)		50				.20					
	er Along Fanling Highway	y S/B										
	935-6055)-FH S/B Side											
Noise Barri NB02300	IET WORKS NB51 ID1-3 (0-25m) - NB production	93.86%	14	228	20-May-17 A	02-Apr-18	388					
					-							
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	03-Apr-18	09-Apr-18	316					
	125-6300) -FH S/B Side (MTF	RC I&P Are	ea)									
Noise Barri	ier Works											
NB02430	Precautionary Measure installation	0%	26	26	20-Mar-18	23-Apr-18	131					
NB02440	NB53 (0-100m) - Sheet piling &	0%	26	26	24-Apr-18	25-May-18	168					
NB02450	Excavation NB53 (0-100m) - Footing & Wall	0%	60	60	26-May-18	06-Aug-18						
	Structure											
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	24-Apr-18	05-May-18	131					
NB02500	NB53 ID2-3 (100-125m) 18nos	0%	27	27	07-May-18	07-Jun-18	131					
NB02510	Piling- 1 rigs NB53 ID2-3 (100-125m) - Sheet	0%	21	21	08-Jun-18	04-Jul-18	131					
	piling & Excavation											
NDOOFOC	NB53 (125-180m) - NB production	97.64%	14	593	20-May-16 A	112-Apr-18	388				1	1
NB02590		97.04 /0	14	000	20 May 10/1	02-Api-10	300					

	ss Update)(20-Mar-18)					onth Rolling	
y ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start		Total Float
	:300-6360)-FH S/B Side (MTR	RC I&P Area	l)				
Noise Bar NB02660	rier Works NB55 - NB production	94.63%	40	745	15-Jan-16 A	28-Apr-18	362
NB02670	NB55 - NB post & panel installation	0%	5	5	30-Apr-18	05-May-18	294
NB56 (Ch.6	360-6400)-FH S/B Side (MTR	RC I&P Area	l)				
	NB56 - NB production	97.95%	14	683	20-Feb-16 A	02-Apr-18	388
NB02730	NB56 - NB post & panel installation	0%	5	5	03-Apr-18	02-Apr-18	
	400-6560)-FH S/B Side (MTR			U	00 / 01 10		010
Noise Bar	rier Works		l)				
NB02790	NB61 (0-50m)- backfilling	44%	28	50	20-Jan-18 A	· ·	302
NB02800	NB61 (0-50m) - NB production	68.89%	14	45	20-Jan-18 A	· ·	388
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	03-Apr-18	09-Apr-18	
NB02850 NB02860	NB61 (50-160m) - NB production NB61 (50-160m) - NB post & panel	0%	45 5	45 5	20-Mar-18 04-May-18	03-May-18 09-May-18	
	installation			5	04-May-18	09-Way-10	291
	.6560-6745)-FH S/B Side (MT r <mark>ier Works</mark>	RC I&P Are	a)				
NB02920	NB61A (0-50m) - NB production	93.7%	45	714	20-Feb-16 A	03-May-18	357
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-May-18	09-May-18	
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	93.34%	57	856	-	31-May-18	
NB02980	NB61AID2-3 (50-75m)- backfilling	0%	20	20	01-Jun-18	25-Jun-18	
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	01-Jun-18		284
NB03040	NB61A (75-190m) - NB production	97.81%	15	684	20-Feb-16 A		387
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Apr-18	10-Apr-18	315
	ghway Construction Road Works						
Ch 5880-6	740						
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane	36.67%	19	30	20-Feb-18 A		4
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	85.71%	11	77	25-Oct-17 A		109
RDZ41250	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 3)	0%	60	60	16-Apr-18	27-Jun-18	101
Other World TCSS World							
ADS1							
TCSS1970	Back filling & reinstatemetn road work (2m)	0%	18	18	20-Mar-18	13-Apr-18	222
FADS1 TCSS2050	TTA application & Approval - FADS1	0%	90	90	01-Jun-18	15-Sep-18	63
G55		570	50	50			
TCSS1740	TTA application & Approval - G55	0%	90	90	25-Apr-18	11-Aug-18	63
outh Buf	fer Zone 1 (SBZ1) (with	in Zone 2	2)(Ch.6	<mark>740</mark> 1	o 6930)		
Noise Barr	<mark>ier Along TWSR-West and</mark> 64A (Ch.6860-6920)-TWSR V	Laying N					
Noise Bar	rier Works						
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	20-Mar-18	10-May-18	290
	<mark>ier Along Fanling Highwa</mark> y 450-6920)-FH N/B Side	y N/B					
	rier Works						
NB02040	NB60 (300-408m)(NB60/26-S4, 0.19m -26nos) Piling	15.38%	22	26	27-Jan-18 A		-4
NB02050	NB60-4 (300-408m) - Sheet piling & Excavation	0%	12	12	19-Apr-18		-4
NB02060	NB60-4 - Footing & Wall Structure	0%	50	50	04-May-18	04-Jul-18	
NB02100	NB60 (408-468m)(NB60/35-39, 0.19m -32nos) Piling	0%					-4
			32	32	19-Apr-18	28-May-18	62
NB02101	NB60 (408-468m) FADS1 (8nos) Piling	0%	32 8	32 8	29-May-18	28-May-18 06-Jun-18	
NB02105	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)	0% 39.66%			· ·	28-May-18 06-Jun-18	62
NB02105 NB66 (Ch.6	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side		8	8	29-May-18	28-May-18 06-Jun-18	62 62
NB02105 NB66 (Ch.6	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)		8	8	29-May-18	28-May-18 06-Jun-18 04-May-18	62 62
NB02105 NB66 (Ch.6 Noise Bar	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works	39.66%	8 35	8 58	29-May-18 06-Feb-18 A	28-May-18 06-Jun-18 04-May-18	62 62 89 3
NB02105 NB66 (Ch.6 Noise Bar NB02160	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure	39.66% 28.57%	8 35 15	8 58 21	29-May-18 06-Feb-18 A 18-Mar-18 A	28-May-18 06-Jun-18 04-May-18 10-Apr-18	62 62 89 3 47
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works	39.66% 28.57% 0%	8 35 15 18	8 58 21 18	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18	62 62 89 3 47 144
NB02105 NB66 (Ch.6 Noise Bar NB02160 NB02165 NB02170	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66- backfilling	39.66% 28.57% 0%	8 35 15 18 15	8 58 21 18 15	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18	62 62 89 3 47 144 335
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - backfilling NB66 - NB production	39.66% 28.57% 0% 0%	8 35 15 18 15 45	8 58 21 18 15 45	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 25-May-18	62 62 89 3 47 144 335 265
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - backfilling NB66 - NB production NB66 - NB post & panel installation	39.66% 28.57% 0% 0% 0%	8 35 15 18 15 45 5	8 58 21 18 15 45 5	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 25-May-18 09-Jun-18	62 62 89 3 47 144 335 265
NB02105 NB66 (Ch.6 Noise Bar NB02160 NB02165 NB02170 NB02180 NB02190 NB02190 NB03320 ridge Cor Kau Lung H	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86	39.66% 28.57% 0% 0% 0%	8 35 15 18 15 45 5	8 58 21 18 15 45 5	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 25-May-18 09-Jun-18	62 62 89 3 47 144 335 265
NB02105 NB66 (Ch.6 Noise Bar NB02160 NB02165 NB02170 NB02180 NB02190 NB02190 NB03320 Bridge Cor Kau Lung H	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - backfilling NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86	39.66% 28.57% 0% 0% 0%	8 35 15 18 15 45 5	8 58 21 18 15 45 5	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 25-May-18 09-Jun-18	62 62 89 3 47 144 335 265 144
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320 Bridge Con Kau Lung H KLH Bridg KLH.1290	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Drainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction ang Vehicular Bridge P - West Ramp West Ramp - Planting	39.66% 28.57% 0% 0% 0% 0%	8 35 15 18 15 45 5 30	8 58 21 18 15 45 5 30	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 02-May-18 10-Ajun-18 25-May-18 09-Jun-18 16-May-18	62 62 89 3 47 144 335 265 144
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320 Bridge Con Kau Lung H KLH Bridg KLH.1290	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Drainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction ang Vehicular Bridge P - West Ramp West Ramp - Planting	39.66% 28.57% 0% 0% 0% 0%	8 35 15 18 15 45 5 30	8 58 21 18 15 45 5 30	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 02-May-18 10-Ajun-18 25-May-18 09-Jun-18 16-May-18	62 62 89 3 47 144 335 265 144 309
NB02105 NB66 (Ch.6 Noise Barr NB02165 NB02165 NB02170 NB02180 NB02190 NB03320 Sridge Con Kau Lung H KLH Bridg KLH.1290 KLH Bridg KLH.3430	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dackfilling NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction west Ramp West Ramp - Planting e - Deck 1 Deck 1 - Planting	39.66% 28.57% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21	8 58 21 18 15 45 5 30 21 21	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18 20-Mar-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 10-Apr-18 16-May-18 16-May-18 17-Apr-18 17-Apr-18	62 62 89 3 47 144 335 265 144 309 309
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320 Sridge Con Kau Lung H KLH Bridg KLH Bridg KLH.3430	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction ang Vehicular Bridge e - West Ramp West Ramp - Planting e - Deck 1 Deck 3 - Planting	39.66% 28.57% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21	8 58 21 18 15 45 5 30 21	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 02-May-18 10-Apr-18 10-Apr-18 16-May-18 16-May-18 16-May-18	62 62 89 3 47 144 335 265 144 309 309
NB02105 NB66 (Ch. 6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320 Sridge Con Cau Lung H KLH Bridg KLH Bridg KLH.3430	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dackfilling NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction west Ramp West Ramp - Planting e - Deck 1 Deck 1 - Planting	39.66% 28.57% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21	8 58 21 18 15 45 5 30 21 21	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18 20-Mar-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 10-Apr-18 16-May-18 16-May-18 17-Apr-18 17-Apr-18	62 62 89 3 47 144 335 265 144 309 309 309 341
NB02105 NB66 (Ch. 6 Noise Barr NB02165 NB02165 NB02170 NB02180 NB02190 NB03320 Sridge Cor Kau Lung H KLH Bridg KLH Bridg KLH Bridg KLH Bridg KLH Bridg KLH Bridg	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 Nstruction ang Vehicular Bridge e - West Ramp West Ramp - Planting e - Deck 1 Deck 3 - Planting e - East Ramp East Ramp - Planting	39.66% 28.57% 28.57% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21	8 58 21 18 15 45 5 30 21 21 21	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 11-Apr-18 20-Mar-18 20-Mar-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 10-Apr-18 10-Apr-18 117-Apr-18 17-Apr-18 17-Apr-18	62 62 89 3 47 144 335 265 144 309 309 309 341
NB02105 NB66 (Ch.6 Noise Barr NB02160 NB02165 NB02170 NB02180 NB02190 NB03320 Bridge Cor Kau Lung H KLH Bridg KLH Bridg KLH Bridg KLH Bridg KLH Bridg KLH Bridg	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dackfilling NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction ang Vehicular Bridge e - Deck 1 Deck 1 - Planting e - Deck 3 Deck 3 - Planting	39.66% 28.57% 28.57% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21	8 58 21 18 15 45 5 30 21 21 21	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 05-Jun-18 20-Mar-18 20-Mar-18	28-May-18 06-Jun-18 04-May-18 10-Apr-18 02-May-18 04-Jun-18 10-Apr-18 10-Apr-18 117-Apr-18 17-Apr-18 17-Apr-18	62 62 89 3 47 144 335 265 144 309 309 309 341 649
NB02105 NB02105 NB02160 NB02165 NB02165 NB02170 NB02180 NB02190 NB03320 Sridge Con Kulh Bridg KLH Bridg KLH.3430 KLH Bridg KLH.3590 KLH Bridg Z2.KLH.3610 KLH Bridg	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dainage Works NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 nstruction ang Vehicular Bridge e - West Ramp West Ramp - Planting e - Deck 1 Deck 1 - Planting e - Ramp R1 Ramp R1 - Steel roof e - Ramp R2	39.66% 28.57% 28.57% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21 21 21 34	8 58 21 18 15 5 30 21 21 21 21 21 21 34 280	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 20-Mar-18 20-Mar-18 20-Mar-18 20-Mar-18	28-May-18 0 06-Jun-18 0 04-May-18 0 10-Apr-18 0 02-May-18 0 02-May-18 0 03-Jun-18 0 117-Apr-18 0 17-Apr-18 0 03-May-18 0 03-May-18 0 03-May-18 0 03-May-18 0 03-May-18 0 03-May-18 0	62 62 89 3 47 144 335 265 144 309 309 309 309 309 319
NB02105 NB66 (Ch. 6 Noise Barr NB02165 NB02165 NB02170 NB02180 NB02190 NB03320 Bridge Con Kau Lung H KLH Bridg KLH.1290 KLH Bridg KLH.3500 KLH Bridg KLH.3500 KLH Bridg Z2.KLH.3610	NB60 (408-468m) FADS1 (8nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 920-6930)-FH N/B Side rier Works NB66 - Footing & Wall Structure NB66 - Drainage Works NB66 - Dackfilling NB66 - NB production NB66 - NB post & panel installation Bus Shelter footing - VO86 NStruction ang Vehicular Bridge e - West Ramp West Ramp - Planting ge - Deck 1 Deck 1 - Planting ge - Ramp R1 Ramp R1 - Steel roof ge - Ramp R2	39.66% 28.57% 28.57% 28.57% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	8 35 15 18 15 45 5 30 21 21 21 21	8 58 21 18 15 45 5 30 21 21 21 21 21 34	29-May-18 06-Feb-18 A 18-Mar-18 A 11-Apr-18 17-May-18 11-Apr-18 05-Jun-18 20-Mar-18 20-Mar-18 20-Mar-18 20-Mar-18	28-May-18 1 06-Jun-18 1 04-May-18 1 10-Apr-18 1 02-May-18 1 02-May-18 1 04-Jun-18 1 03-May-18 1 16-May-18 1 17-Apr-18 1 17	62 62 89 3 47 144 335 265 144 309 309 309 309 309 319

	Activity Name	Dur. %		Original		Ionth Rolling	Total				
		Complete	Duration				Float		Mar	Mar	2018 Mar Apr
.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	05-Apr-18	03-Jul-18	-6				
idge Roa KLH.2040	d Work Landscape work of KLHVB	0%	120	120	20-Mar-18	15-Aug-18	210	 			
t at TWS	R-W Side								t		
01070	Structural Laminated glass wall installation	0%	11	11	20-Mar-18*	04-Apr-18	230	 			
01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Mar-18	20-Mar-18		 			
01100		0%	70	70	06-Apr-18	29-Jun-18		 			
-01130	Finishes work	0%	88	88	06-Apr-18	21-Jul-18	231	 			
	CLP Power available (by CLP)	94.9%	32	628	04-Apr-16 A	20-Apr-18	350				
LIT at FLH	Structural Laminated glass wall	0%	12	12	20-Mar-18*	06-Apr-18	258	 	-		
.01250	installation Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Mar-18*	20-Mar-18	270	 	-	• •	
L01260	Lift installation	0%	45	45	07-Apr-18	31-May-18	259	 			
L01270	Lift T&C	0%	14	14	01-Jun-18	14-Jun-18	315	 			
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	15-Jun-18	21-Jun-18	315	 			
L01290	Finishes work	0%	60	60	07-Apr-18	19-Jun-18	258				
L01300	CLP Power available (by CLP)	91.24%	63	719	04-Apr-16 A	21-May-18	325				
gnalized .	lunction ng Vehicular Bridge										
KLH Bridge	- West Ramp										
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Mar-18*	17-Apr-18		 			
	E-prom ordering by EMSD (KLHVB)	0%	90	90	25-Mar-18	22-Jun-18	222				
	er Along Fanling Highway 45-6910)-FH S/B Side (MTF		a)								
Noise Barri	er Works		a)					 			
NB03110	NB62 (0-80m) - NB production	0%	45	45	20-Mar-18	03-May-18		 			
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5		04-May-18			 			
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Mar-18	09-Apr-18		 			
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	20-Mar-18	03-May-18		 			
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	20	5 20	04-May-18	09-May-18		 		-	
NB03200	NB62 (110-170m) - backfilling	0%	20	20	20-Mar-18	16-Apr-18		 			
NB03210 NB03220	NB62 (110-170m) - NB production NB62 (110-170m) - NB post & panel	0%	45 5	45 5	20-Mar-18 04-May-18	03-May-18 09-May-18		 			
	installation	0%	5	Э	04-may-18	09-May-18	291				
anling Hig Drainage & F	hway Construction										
Ch 6740-69	30							 			
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	61.04%	30	77	25-Oct-17 A			 			
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	0%	24	24	16-Apr-18	14-May-18	287		1		
			1								1
rth Buffe	er Zone 2 (NBZ2) (with	in Zone	4) (Ch.	7925	to 8100)					
o <mark>rth Buffe</mark> ridge Cons		in Zone	4) (Ch.	7925	to 8100)					
orth Buffe ridge Cons lew Ho Ka \ IWSR-Wes	s <mark>truction</mark> ⁄uen Footbridge <mark>t/ FL Highway N/B Side Se</mark>	ction					260				
orth Buffe ridge Cons ew Ho Ka WSR-Wes HKY1440	struction /uen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB	ction 84.76%	57	374	21-Nov-16 A	31-May-18					
orth Buffe ridge Cons lew Ho Ka WSR-Wes HKY1440 HKY1520	struction Yuen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work	ction 84.76%			21-Nov-16 A						
orth Buffe ridge Cons ew Ho Ka WSR-Wes HKY1440 HKY1520 WSR-East	Struction Yuen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sec Steel Ramp finishes work	ction 84.76%	57	374	21-Nov-16 A	31-May-18 25-Jul-18					
orth Buffe ridge Cons ew Ho Ka WSR-Wes HKY1440 HKY1520 WSR-East HKY1870	Struction Yuen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sec Steel Ramp finishes work (HKYFB-TWSR-E side)	ction 84.76% 0% tion	57 45	374 45	21-Nov-16 A 01-Jun-18	31-May-18 25-Jul-18	260				
orth Buffe ridge Cons ew Ho Ka WSR-Wes HKY1440 HKY1520 WSR-East HKY1870 DNE 4 (Ch DISE Barrie	struction Yuen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sec Steel Ramp finishes work (HKYFB-TWSR-E side) 1. 7925 to 8700) Ser Along TWSR-West and	ction 84.76% 0% tion 73.68%	57 45 100	374 45 380	21-Nov-16 A 01-Jun-18	31-May-18 25-Jul-18	260				
orth Buffe ridge Cons ew Ho Ka WSR-Wes HKY1440 HKY1520 WSR-East HKY1870 DNE 4 (Ch Dise Barrie nderground	struction /uen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sec Steel Ramp finishes work (HKYFB-TWSR-E side) A. 7925 to 8700) ar Along TWSR-West and Utility Works	Ction 84.76% 0% tion 73.68%	57 45 100	374 45 380	21-Nov-16 A 01-Jun-18	31-May-18 25-Jul-18	260				
orth Buffe ridge Cons ew Ho Ka Y WSR-Wes HKY1520 WSR-East HKY1570 DIE 4 (Ch Dise Barrie Dise Barrie Dise Barrie DISC DI W	struction Yuen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sect Steel Ramp finishes work (HKYFB-TWSR-E side) 1. 7925 to 8700) Ser Along TWSR-West and Utility Works Yatermain "A" (Ch 1989-252 DN450 DI watermain laying	Ction 84.76% 0% tion 73.68%	57 45 100	374 45 380	21-Nov-16 A 01-Jun-18	31-May-18 25-Jul-18	260				
orth Buffe idge Cons ew Ho Ka WSR-Wes HKY1440 HKY1520 WSR-East HKY1870 DNE 4 (Ch Dise Barrie DISE Barrie DISE Barrie DISE DI M DI0170	struction /uen Footbridge t/ FL Highway N/B Side Se Remaining Finishes works of HKYFB VO11 - slope improvement work FL Highway S/B Side Sec Steel Ramp finishes work (HKYFB-TWSR-E side) . 7925 to 8700) er Along TWSR-West and Utility Works /atermain "A" (Ch 1989-252 DN450 DI watermain laying (350-400m) DN450 DI watermain laying	Ction 84.76% 0% tion 73.68% I Laying N	57 45 100 lew Util	374 45 380	21-Nov-16 A 01-Jun-18 13-Oct-16 A	31-May-18 25-Jul-18 23-Jul-18	260 262 192				
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Rev. 6 (Progress	s Update)(20-Mar-18)				3 N	Ionth Rolling	g Prog	ram	Page 5 of 5 (26-
ity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float		2018
NB4490	NB77 - Footing & Wall Structure	0%	50		24-May-18	23-Jul-18	30	Mar	Apr May Ju
NB4620	(NB77/31 - 32, 0.19m & G35) NB77 Drainage Works	0%	100		13-Apr-18	11-Aug-18			
		070	100	100	10 / 01 10	IT Aug 10	20		
Bridge Con		idao							
	p Shek Pedstrian & Cycle Bri st/ FL Highway N/B Side Se								
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	20-Mar-18	16-Apr-18	120		
WHS1400	2nd half Steel Ramp ready for	0%	0	0		16-Apr-18	120		16-Apr-18 ◆ 2nd half Steel Ramp ready for erection (WHS-TW
WHS1410	erection (WHS-TWSR-W side) Erect 2nd half Ramp	0%	60	60	11-May-18	23-Jul-18	100		
WHS2120	Ramp fabrication	44.44%	40	72	07-Feb-18A	10-May-18	100	· · · · · · · · · · · · · · · · · · ·	
Crossing F	anling Highway Section								
WHS1510	TTA for new WHS bridge submission	40%	36	60	20-Feb-18 A	05-May-18	290		
WHS1520	& approval Remove railing	0%	12	12	07-May-18	19-May-18	290		
WHS1530	Bridge floor marking	0%	6	6	21-May-18	28-May-18	290		
WHS1540	Install bollards	0%	18	18	29-May-18	19-Jun-18	290		
	6A Construction				-				
Retaining Wa									
	t FL Highway S/B Side Sect	tion							
W76A1060	Road work for Caltex access road	53.33%	70	150	16-Jan-18 A	15-Jun-18	292		
	hway Construction								
	Road Works								
	t FL Highway S/B Side Sect				00 51 40 4	00.14	70		<u></u>
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	55%	9		20-Feb-18 A				
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	20	20	03-Apr-18	26-Apr-18	73		
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	20	20	27-Apr-18	21-May-18	73		
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	0%	20	20	23-May-18	14-Jun-18	73		
RDZ41131	Drainage work at central divider (Ch8100-8600)	79.33%	31	150	10-Oct-17 A	28-Apr-18	101		
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8600)	0%	45	45	30-Apr-18	23-Jun-18	101		
Other Work				,					
Retaining Wa									
	t FL Highway S/B Side Sect				1.0.1.10		-		
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site	0%	35	35	12-Jun-18	24-Jul-18	2		
RWZ4.1010	Base slab & Wall (6-11m high)- RW78 (Ch.0-50)	40%	66	110	02-Jan-18 A	11-Jun-18	2		
Slope Works									
	t FL Highway S/B Side Sect		110	110	00 Mar 40	00 4.00	07		
S1030	Slope S53-Fill ~5m	0%	110		20-Mar-18	03-Aug-18			
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Mar-18	10-May-18		· · · · · · · · · · · · · · · · · · ·	
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Mar-18	10-May-18	286		
TCSS Works									
TCSS0120	Construction Works Prepare Shop Drawing-TCSS	80%	6	30	20-Dec-17 A	26-Mar-19	109		
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	27-Mar-18	16-Apr-18			
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18		17-Apr-18	08-May-18			
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0			08-May-18			08-May-18 ♦ Confirm Shop drawing & read
TCSS0160	Raw material procurement	38.89%	110	180	09-Jan-18 A	07-Jul-18	74		
G34 TCSS1530	Fast lane footing - G34 (CH7990,	0%	30	30	10-May-18	14-Jun-18	1/2		
	N/B)				-				
TCSS1780	TTA application & Approval - G34 (Z4)	0%	90	90	25-Apr-18	11-Aug-18	95		
G36 TCSS1820	TTA application & Approval - G36	0%	90	90	01-Jun-18	15-Sep-18	95		
	(Z4)	υ%	90	90	UT-JUII-10	10-0ep-18	50		
FADS8 TCSS1630	Fast lane footing - FADS8 (CH8220,	0%	30	30	30-Apr-18	05-Jun-18	241		
0 . 000	S/B)	0,0							



CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD. Contract No. 02/HY/2015 Works Order Nos: CB128519-0 & CB128520-5 Progarmme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Revised Program Duration	Rev	Date	Description
Programmed Duration	00	28/02/17	initial issue
Actual Progress	01	29/03/17	refer RE's comments
 Critical Path Activities	02	22/5/17	add plate load test program
 Early Start & Early Finsih	03	28/9/2017	revise program of task 5-8
Float = 3 weeks	04	23/1/2018	add mass wall & revise installation of NB & BBI

upper part of stem wall

	Week No. 1 2 3	4 5 6 7 8 9	9 10 11 12 13 14	15 16 17 18	19 20 21 22 2	3 24 25 26	27 28 29	30 31 32	33 34	35 36 37	38 39 40	0 41 4	2 43 4	4 45 46	47 48	49 50	51 52 5	3 54 55	5 56 57	58 59	60 61	62 63	64 65 66
Act. No		/18 3/25 4/1 4/8 4/15 4/2.	2 4/29 5/6 5/13 5/20 5/27	6/3 6/10 6/17 6/24	7/1 7/8 7/15 7/22 7/	8/5 8/12 8/19	8/26 9/2 9/9	9/16 9/23 9/30 1	0/7 10/14 10	/21 10/28 11/4 1	1/11 11/18 11/2	5 12/2 12/	12/16 12/2	3 12/30 1/6	1/13 1/20 1/	27 2/3 2	210 217 27.	24 3/3 3/10	0 3/17 3/24	3/31 4/7	4/14 4/21 4	/28 5/5 5	5/12 5/19 5/26
	WO No. CB128520-5		+++++							+++				\square						++	++		
1		100%	+++++		++++					-			\square	+++									
2	Submit and obtain approval of temp wks	100%	++++							+++			\square										
	Construction of Footings (6 stages): (Assume 2 sections in one stage, 6 weeks cycle per																						
3	standard section) Stage 1 : NB74-6 , NB 74-7		100%		++++							++	++	+			-		+	++	++		
4	Stage 2 : NB74-0, NB 74-7 Stage 2 : NB74-5, NB-74- 4	++++++		100	%								++	+ + +					$\left \right $	++	++		
5	Stage 2: NB74-3, NB-74-4	+++++			1					00%				+++		++			+++	++	++	++	
6	Stage 4: NB74-1, Footing A (1 wk allowed for plate load	(test)			++++					00%			$\left \right $	+ + +							++		
7	Stage 5: NB74-8, & Footing B (1 wk allowed for plate load									00%0	1 DESIGNATION		0%	+		++	-		+++		++	++	
8	Stage 5: 74-9, NB74-10		$\left\{ \left\{ \left$		++++			FF							107	1/0					++	+	
8a	Stage 7 : Upper part of stem wall	+++++		++++					++	Rename Constant						100	7		+++	++	++	++	
8 b	Mass concrete wall near bay 1	+++++															4		- 100	2	++-	++	
9	Submit workshop drawings for steelworks of Noise Barriers and Covered Walkway for approval	ES			EF	180	8/0										Holidays						
10	Fabrication of NB and CW								na serona de			- (0%				Year						
11	Site installation of NB (include steel posts and panels)															H	ar New		- 10	0/0			
	WO No. CB128519-0																Lunar						
12	Site installation of Covered Walkway																		10	10%			
13	Electrical Installation									9		1										Ħ	
14	Allow for Works by Bus Companies																E						
15	Drainage Works															95	4	Ħ	+ - 1				
16	Footpath Construction																						
17	Cycle Track Modification nr Tai Hang																						
18	Road surfacing																						
19	Allow for UU laying ducts																100/						
20	Allow for fixing street furnitures by C3/ LT																						

Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 =432 M.	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		l day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
		A:	Total = 42 days

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwl		1
Total :	10 c	lays

Breakdown of Item 6

	Posts calendar days	
Fwk	2	
Re-bar	3	
Concreting	1	
emove Fwl	1	
Total :	7	days

\$\$Breakdown of Item 8a (for 2 sections of stem wall)

	Posts calendar days	
Fwk	4	
Re-bar	2	
Concreting	1	
Fix HD bolts	2	
Remove Fwk	1	
Total :	10 d	ays

App.A.

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	Implementat	tion Status
			HY/2012/06	02/HY/2015
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	V
	All stockpiles of excavated materials or spoil of more than 50m ³ 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.		V	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	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	V
	Materials shall be dampened, if necessary, before transportation.		V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	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	Implementat	ion Status
-			HY/2012/06	02/HY2015
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V
	Reduce the number of equipment and their percentage on-time.		V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	N.A.
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).	-	V	N.A.
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	N.A.
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	N.A.
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	N.A.
	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	N.A.
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	N.A.
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
Water quality during construction	 Demolition and reconstruction of bridges Prevent off-site migration through use of sheet piles. Minimise duration of works as far as practical. All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	@	N.A.
	 Road Widening Works, Earthworks and Culvert Extension Works Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system. Open stockpiles should be covered with a tarpaulin cover. During the wet season, any exposed top soils should be settled out before discharging into storm drains. Fuels should be stored in bunded areas such that spillage can be easily collected. 		Q	V

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
-			HY/2012/06	02/HY/2015
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	V	V
	 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	V
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V	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	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	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. 		#	N.A.

 Chemical Wastes 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. 	Ø	N.A.
	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
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	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	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	Responsibili	ty
			HY/2012/06	02/HY/2015
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	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	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	N.A.
	 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. 		#	N.A.
	 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. 		#	N.A.

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 – Act	ion and I	imit Levels	for 1-hc	
	ion anu i			

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



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		7 Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	295 - 754.38
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9810 0.8750 0.8330 0.6890	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9984 0.9942 0.9921 0.9910 0.9858	0.7178 1.0135 1.1338 1.1897 1.4307	1.4161 2.0027 2.2391 2.3484 2.8322		0.9957 0.9915 0.9894 0.9883 0.9831	0.7158 1.0107 1.1308 1.1865 1.4269	0.8844 1.2507 1.3983 1.4666 1.7687
Qstd slop intercept coefficie y axis =	(b) = ent (r) =	1.98425 -0.00930 0.99998 Pa/760) (298/5	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Qa slope intercept coefficie v axis =	z (b) =	1.24250 -0.00581 0.99998

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$

AECOM

<u>Total Suspended Particulates (TSP) Sampler</u> <u>Field Calibration Report</u>

Station	Fanling Governme	ent Secondary School (AM2)	Operator:	Shum Kam Yuen	
Date:	15-Jan-18	_	Next Due Date:	14-Mar-18	
Model No:	TE-5170		Verified Against:	O.T.S 988	
Equipment No.:	A-001-74T		Expiration Date:	22-May-2018	

		Ambient Con	ndition		
Temperature, Ta	285.0	Kelvin	Pressure, Pa	763.3	mmHg

Orifice Transfer Standard Information								
Equipment No .:	988	Slope, mc	1.98425	Intercept, bc	-0.0093			
Last Calibration Date:	22-May-17	$mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]^{1/2}$						
Next Calibration Date:	22-May-18							

Point in. of water [H x (Pa/760) x (298/1a)] (m /min) X - axis in. of oil Y-axis 1 7.1 2.73 1.38 5.3 2.36 2 5.9 2.49 1.26 4.3 2.13 3 4.3 2.13 1.08 3.2 1.83 4 3.4 1.89 0.96 2.3 1.55 5 2.5 1.62 0.82 1.6 1.30	Calibration of TS		libration of TSP Sampler		
1 2.15 1.56 5.5 2.50 2 5.9 2.49 1.26 4.3 2.13 3 4.3 2.13 1.08 3.2 1.83 4 3.4 1.89 0.96 2.3 1.55 5 2.5 1.62 0.82 1.6 1.30	$[H \times (P_2/760) \times (298/T_2)]^{1/2}$	[[H v (Pa/76)	(m^{3}/min) (m ³ /min)	1000 No. 100	[ΔW x (Pa/760) x (298/Ta)] Y-axis
2 1.20 1.20 1.20 1.20 3 4.3 2.13 1.08 3.2 1.83 4 3.4 1.89 0.96 2.3 1.55 5 2.5 1.62 0.82 1.6 1.30	2.73	7.1	1.38	5.3	2.36
4 3.4 1.89 0.96 2.3 1.55 5 2.5 1.62 0.82 1.6 1.30	9 2.49	5.9	1.26	4.3	2.13
5 2.5 1.62 0.82 1.6 1.30 By Linear Regression of Y on X	3 2.13	4.3	1.08	3.2	1.83
By Linear Regression of Y on X	4 1.89	3.4	0.96	2.3	1.55
	5 1.62	2.5	0.82	1.6	1.30
		1.8972	Intercept, bw =	=	-0.2530
Correlation Coefficient* = 0.9989	t* =0.9989	oefficient* = 0.9			

Set Point Calculation					
From the TSP Field Calibration Curve, take $Qstd = 1.21 \text{ m}^3/\text{min}$ (43 CFM)					
From the Regression Equation, the "Y" value according to					
m x Qstd + b = $[W x (Pa/760) x (298/Ta)]^{1/2}$					
Therefore, Set Point W = $(m \times Qstd + b)^2 \times (760 / Pa) \times (Ta / 298) =$	3.97				

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:		
QC Reviewer: [] [2	Signature:	Date: <u>>> - 1 - 1 &</u>

AECOM

<u>Total Suspended Particulates (TSP) Sampler</u> <u>Field Calibration Report</u>

Station	Fanling Government Secondary	School (AM2) Operator:	Shum Kam Yuen
Date:	15-Mar-18	Next Due Date:	15-May-18
Model No:	TE-5170	Verified Against:	O.T.S 988
Equipment No.:	A-001-74T	Expiration Date:	22-May-2018

Ambient Condition								
Temperature, Ta	298.0	Kelvin	Pressure, Pa	758.7	mmHg			

Orifice Transfer Standard Information								
Equipment No .:	988	Slope, mc	1.98425	Intercept, bc	-0.0093			
Last Calibration Date:	22-May-17	mc x Qstd + bc = [H x (Pa/760) x (298/Ta)] ^{1/2}						
Next Calibration Date:	22-May-18							

		Calibration of	TSP Sampler		
Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	W in. of oil	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	7.0	2.64	1.34	5.3	2.30
2	5.9	2.43	1.23	4.3	2.07
3	4.3	2.07	1.05	3.2	1.79
4	3.3	1.82	0.92	2.4	1.55
5	2.4	1.55	0.78	1.6	1.26
By Linear Regre	ession of Y on X				
Slope, mw =	1.8134		Intercept, bw =		-0.1354
Correlation Co	oefficient* =	0.9987			
		Sot Point C	algulation		
From the TSD E	ld Calibratic - C	Set Point C: urve, take Qstd = $1.21 \text{ m}^3/\text{min}$ (4)			

From the Regression Equation, the "Y" value according to

m x Qstd + b = $[W x (Pa/760) x (298/Ta)]^{1/2}$

Therefore, Set Point W =
$$(m \times Qstd + b)^2 \times (760 / Pa) \times (Ta / 298) =$$

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN

4 Signature: _

_____ Date: 15/03/18

4.25

EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	DAB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 2017					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557 CPM 557 CPM

Hour	Date (dd-mm-yy)	Time				Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
				Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:30 -	13:30	27.5	78	0.04741	1894	31.57
2	06-05-17	13:30 -	14:30	27.6	78	0.04823	1933	32.22
3	06-05-17	14:30 -	15:30	27.6	79	0.04968	1987	33.12
4	06-05-17	15:30 -	16:30	27.6	79	0.04785	1915	31.92

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X	
Slope (K-factor):	0.0015
Correlation coefficient:	0.9957
Validity of Calibration Record:	6 May 2018

Remarks:

			/		
QC Reviewer:	YW Fung	Signature:	1	Date:	08 May 2017

EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®			
Venue:	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB				
Serial No:	Control:	Control: 140AB219899803			
	Sensor:	1200C143659803	Ko:	12500	
Last Calibration Date*:	6 May 2017				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797 CPM 797 CPM

Hour	Date (dd-mm-yy)	Time			dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:00	-	13:00	27.5	78	0.04715	1881	31.35
2	06-05-17	13:00	-	14:00	27.6	78	0.04843	1939	32.32
3	06-05-17	14:00	-	15:00	27.6	79	0.04987	1992	33.20
4	06-05-17	15:00	-	16:00	27.6	79	0.04794	1916	31.93

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9961	
Validity of Calibration Record:	6 May 2018	

Remarks:					
QC Reviewer:	YW Fung	Signature:	Y/	Date:	08 May 2017

EQUIPMENT CALIBRATION RECORD

ser Dust Monitor		
BATA		
LD-3		
005.11a		
9 CPM		

Mike Shek (MSKM)

Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®		
Venue:	Cyberport (Pui Ying Secondary School)			
Model No.:	Series 1400AB			
Serial No:	Control: 140AB219899803			
	Sensor:	1200C143659803	Ko:	12500
Last Calibration Date*:	6 May 2017	7		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799 CPM 799 CPM

Hour	Date (dd-mm-yy)	Time	9		pient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
				Temp (°C)	R.H. (%)	Y-axis	oount	X-axis
1	07-05-17	09:15 -	10:15	25.5	81	0.04372	1749	29.15
2	07-05-17	10:15 -	11:15	25.5	81	0.04501	1804	30.07
3	07-05-17	11:15 -	12:15	25.6	81	0.04536	1817	30.28
4	07-05-17	12:15 -	13:15	25.6	82	0.04688	1873	31.22
loto.	1 Monitoring	toto unos mos		-		0.0.000	1010	51.22

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9975	
Validity of Calibration Record:	07 May 2018	

Remarks:

QC Reviewer:	YW Fung

Signature:

Date: 08 May 2017



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12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

Certificate No.:	17CA0901 01		Page	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.:	Sound Level Meter B & K 2238 2800927		4188			
Adaptors used:	-		-			
Item submitted by						
Customer Name:	AECOM ASIA CO.	, LTD.				
Address of Customer:	-					
Request No.:	-					
Date of receipt:	01-Sep-2017					
Date of test:	09-Sep-2017					
		ation				
Date of test: Reference equipment ^{Description:}		ation Serial No.	Expiry Date:	Tr	aceabl	e to:
Reference equipment	used in the calibr		Expiry Date: 08-Sep-2018		aceabl	
Reference equipment	used in the calibr	Serial No.		CI		
Reference equipment Description: Multi function sound calibrator	used in the calibr Model: B&K 4226	Serial No. 2288444	08-Sep-2018	CI	GISMEC	
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calibr Model: B&K 4226 DS 360	Serial No. 2288444 33873	08-Sep-2018 25-Apr-2018	CI	GISMEC EPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	used in the calibr Model: B&K 4226 DS 360	Serial No. 2288444 33873	08-Sep-2018 25-Apr-2018	CI	GISMEC EPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calibr Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873	08-Sep-2018 25-Apr-2018	CI	GISMEC EPREI	

Test specifications

- 1, 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%.
- 3, 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

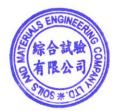
This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Min/Feng Jun Qi

09-Sep-2017 Company Chop:



Comments: The results reported by 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.

Date:

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



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12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



2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0901 01

Page

of

1 **Electrical Tests**

The electrical tests were perfomed 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
Self-generated noise	A	Pass	0.3	
	С	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	
	С	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 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ 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 Weighting A at 8000 Hz	Pass Pass	0.3 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



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



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓

官 花 與 们 沉 迫 3 7 號 利 建 中 心 1 2 樱 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

Certificate No.:	17CA0922 03-02	Page:	1	of	2	
Item tested						
Description:	Acoustical Calibrator (Class 1)					
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-74					
Serial/Equipment No.:	34246490 / N.004.10					
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO LIMITED					
Address of Customer:	-					
Request No.:	-					
Date of receipt:	22-Sep-2017					
Date of test:	28-Sep-2017					

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2743150	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1000 ± 5 hPa

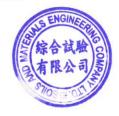
Test specifications

- 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.
- 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.



Approved Signatory:

Date:

28-Sep-2017 Company Chop:

Comments: The results reported in this certificate refer to the conditon 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



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黄竹坑道37號利達中心12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.:

17CA0922 03-02

Page: 2 of

2 of 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)
Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
dB	dB	dB
94.00	94.07	0.10
	Level Setting dB	Level Setting Sound Pressure Level dB dB

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 = 0.011 dB

Estimated expanded uncertainty

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:

0.005 dB

At 1000 Hz	Actual Frequency = 1002.1 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 = 2.8 %
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.

	1	-	End -	A
Calibrated by:	t		Checked by:	$1 \sim \gamma$
	Lai Sheng Jie			Fung Chi Yip
Date:	28-Sep-2017		Date:	28-Sep-2017

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.

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

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 March 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Mar	2-Mar	3-Mar
4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
		Site Audt				
11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar
					1-hr TSP	
					24-hr TSP	
					Noise	
				Site Audit		
18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar
				1-hr TSP		
				24-hr TSP		
				Noise		
		Site Audit				
25-Mar	26-Mar		28-Mar	29-Mar	30-Mar	31-Mar
			1-hr TSP			
			24-hr TSP			
			Noise			
		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 April 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr
		1-hr TSP				
		24-hr TSP				
		Noise				
		Site Audit				
8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
		Site Audt				
15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
					1-hr TSP	
					24-hr TSP	
					Noise	
				Site Audit		
22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
				1-hr TSP		
				24-hr TSP		
				Noise		
		Site Audit				
29-Apr	30-Apr					

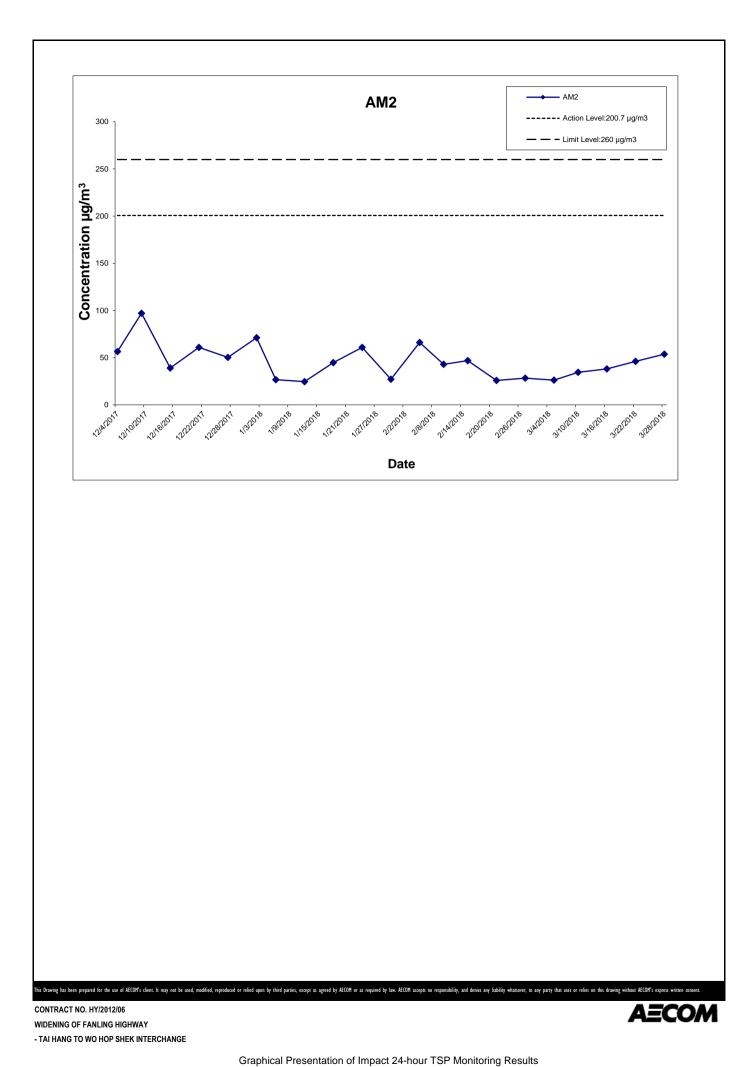
The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

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	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (⁰C	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m ³)	(µg/m ³)
5-Mar-18	Rainy	14.5	1019.4	1.304	1.304	1.304	1877.8	2.7194	2.7684	0.0490	9954.02	9978.02	24.00	26.1	200.7	260
10-Mar-18	Sunny	16.7	1022.1	1.324	1.324	1.324	1906.6	2.7396	2.8052	0.0656	9978.02	10002.02	24.00	34.4	200.7	260
16-Mar-18	Sunny	22.7	1014.8	1.324	1.324	1.324	1906.6	2.7142	2.7867	0.0725	10002.02	10026.02	24.00	38.0	200.7	260
22-Mar-18	Sunny	19.5	1016.9	1.324	1.324	1.324	1906.6	2.7397	2.8275	0.0878	10026.02	10050.02	24.00	46.1	200.7	260
28-Mar-18	Sunny	22.7	1014.7	1.324	1.324	1.324	1906.6	2.7216	2.8239	0.1023	10050.02	10074.02	24.00	53.7	200.7	260
													Average	39.7		
													Min	26.1		
													Max	53.7		



Project No.: 60307376

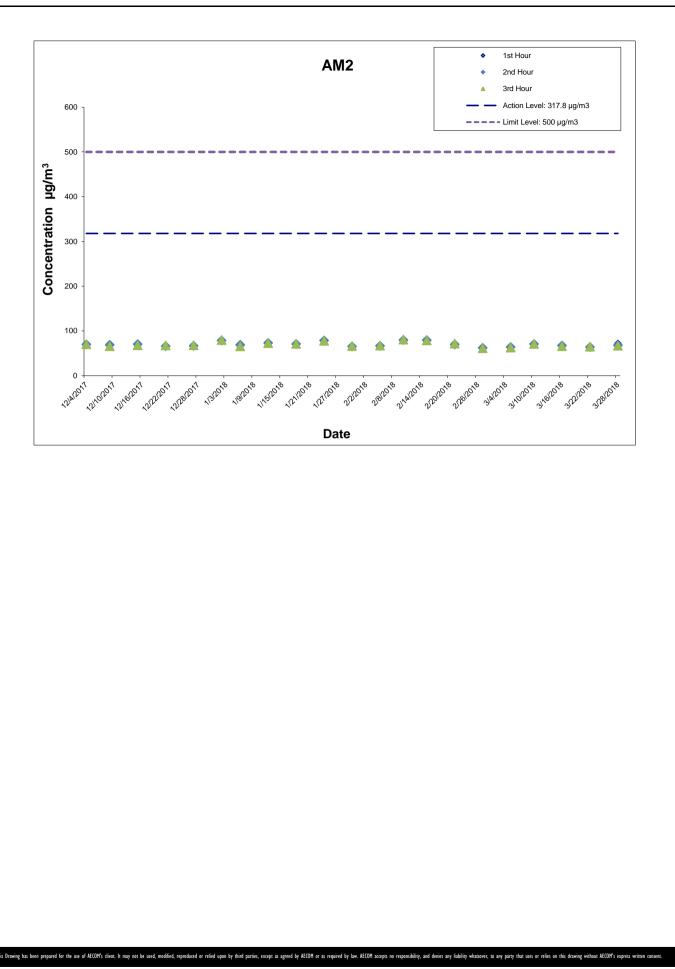
Date:

Apr-18

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/m ³)	(µg/m³)	(µg/m³)	
5-Mar-18	13:00	65.0	64.0	62.8	
10-Mar-18	13:45	72.3	70.8	71.1	
16-Mar-18	10:25	65.5	67.2	66.0	
22-Mar-18	13:00	61.6	63.7	64.9	
28-Mar-18	14:35	72.1	68.1	66.9	
			Average	66.8	
			Min	61.6	
			Max	72.3	



CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Graphical Presentation of Impact 1-hour TSP Monitoring Results

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH



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Visitors Figures Press releases		Mean Pressure	Absolute Mean		Absolute Daily	Mean Dew	Mean Relative	Total Rainfall	Prevailing Wind Direction	Mean Wind Speed
Weather Note (Chinese) Today's Weather		(hPa)	Max (deg. C)	(deg. C)	Min (deg. C)	Point (deg. C)	Humidity (%)	(mm)	(degrees)	(km/h)
Warnings	01	1011.6	23.7#	20.1	17.4#	18.4	90	***	* * *	***
Local Weather	02	1011.1	23.8	21.0	19.3	17.9	83	***	***	***
Observations	03	1010.4	22.1#	21.0	20.1#	20.1	94	***	***	***
Weather Forecast	04	1010.0	23.8#	22.5	21.0#	21.5	94	***	***	***
Weather Monitoring	05	1011.3	25.9#	23.5	21.6#	21.8	90	***	***	***
magery	06	1016.4	21.6	19.2	18.2	16.2	83	***	***	***
Computer Forecast	07	1016.0	20.1	18.8	17.6	15.3	81	***	***	***
Products	08	1019.4	19.1	13.2	11.4	10.2	83	***	***	***
MyObservatory	09	1022.3	18.4	13.6	8.4	6.5	64	***	***	***
Met on Map	10	1021.4	20.4	15.6	11.2	9.2	68	***	***	***
Tropical Cyclones	11	1020.8	21.2	17.5	14.7	11.2	68	***	***	***
Aviation Weather	12	1018.3	23.4	18.5	14.4	13.9	76	***	***	***
Services	13	1015.8	24.2	19.7	15.2	16.0	80	***	***	***
Marine Meteorological	14	1014.0	20.2#	19.5	18.2#	17.2	87	***	***	***
Services	15	1012.3	24.5	21.0	18.9	18.8	87	***	***	***
Weather Information for	16	1013.8	25.7#	21.7	18.4#	19.2	86	***	***	***
Sports	17	1016.5	21.0#	19.3	18.5#	16.9	86	***	***	***
Weather Information for	18	1015.1	22.3#	20.3	19.1#	17.8	86	***	***	***
Communities	19	1010.8	24.4#	21.8	19.7#	20.1	90	***	***	***
China Weather	20	1012.7	22.9	20.0	15.8	15.1	74	***	***	***
World Weather	21	1016.2	22.6	17.6	12.6	7.4	52	***	***	***
Climatological Information	22	1016.1	22.2#	17.8	12.7#	10.2	62	***	***	***
Services	23	1017.6	23.2#	18.9	14.5#	12.6	69	***	***	***
> Climate Watch	24	1018.1	21.9#	20.1	18.4#	16.2	79	***	***	***
> Climate Statistics	25	1018.5	22.6#	20.9	19.0#	14.4	67	***	***	***
> Climate Prediction	26	1017.4	24.5#	21.4	18.1#	16.8	76	***	* * *	***
> Climate Knowledge	27	1015.2	26.0#	21.9	19.4#	17.6	77	***	***	***
> Need More	28	1013.8	24.3#	21.5	19.3#	18.2	82	***	* * *	***
Information?	29	1013.4	24.7#	21.6	19.0#	18.6	83	***	***	***
> Global Climate	30	1014.4	26.1#	22.6	19.2#	18.5	79	***	***	***
Services	31	1014.5	26.7#	23.0	21.0#	15.6	64	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Earthquakes and

Climate Forecast Climate Change

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Visitors Figures			Air	Гетрега	ture					
Press releases	Dav	Mean Pressure	Absolute Daily	Mean	Absolute Daily	Mean Dew	Mean Relative	Total Rainfall	Prevailing Wind	Mean Wind
Weather Note (Chinese)		(hPa)	Max (deg. C)	(deg. C)	Min (deg. C)	Point (deg. C)	Humidity (%)	(mm)	Direction (degrees)	Speed (km/h)
Today's Weather	01	* * *	25.4	00.7		***	* * *	0.0	070	0.1
Warnings		***		20.7	17.2	***	***	0.0	070	8.1
Local Weather	02	***	26.0	21.4	18.8	***	***	0.0	070	9.0
Observations	03		22.4#	21.2	20.4#			0.0	070	6.0
Weather Forecast	04	***	24.0#	22.4	20.9#	***	***	1.5	050	4.9
Weather Monitoring	05	***	30.0#	24.3	21.9#	***	***	0.0	060	3.8
Imagery	06	***	21.9#	18.8	17.4#	***	***	0.0	090	19.9
Computer Forecast	07	* * *	21.4	18.8	16.9	***	***	0.0	090	13.3
Products	08	* * *	19.1#	12.9	11.1#	***	***	13.0	030	19.7
MyObservatory	09	* * *	19.4#	14.1	8.5#	***	***	0.0	040	12.5
Met on Map	10	* * *	21.6	16.0	11.9	***	* * *	0.0	050	12.1
Tropical Cyclones	11	***	23.1#	17.5	13.7#	***	***	0.0	090	14.6
Aviation Weather	12	* * *	24.9#	19.0	14.8#	***	* * *	0.0	060	8.0
Services	13	* * *	25.8#	20.1	16.0#	***	***	0.0	070	6.1
Marine Meteorological	14	* * *	20.6#	19.3	18.0#	***	***	3.0	060	8.4
Services	15	* * *	25.4#	21.2	18.8#	***	***	0.0	050	3.7
Weather Information for	16	* * *	27.3#	22.1	19.0#	***	***	0.0	130	4.5
Sports	17	* * *	20.8#	18.9	18.1#	***	***	0.0	080	22.6
Weather Information for	18	* * *	24.9#	20.4	18.4#	***	***	0.0	060	10.7
Communities	19	* * *	25.7#	22.0	19.7#	***	***	0.0	060	4.0
China Weather	20	***	23.9	19.8	14.7	***	***	1.0	040	15.5
World Weather	21	* * *	22.7	17.7	12.6	***	***	0.0	030	16.0
Climatological Information	22	* * *	24.1#	18.5	14.2#	***	***	0.0	130	8.6
Services	23	* * *	24.5#	19.4	15.4#	***	***	0.0	070	9.8
> Climate Watch	24	***	23.5#	19.9	17.8#	***	***	0.0	040	11.5
> Climate Statistics	25	***	24.3#	20.9	18.6#	***	***	0.5	050	14.6
> Climate Prediction	26	***	28.7#	22.0	18.6#	***	***	0.0	140	4.8
> Climate Knowledge	27	* * *	27.6	22.2	19.3	***	***	0.0	090	6.9
> Need More	28	***	26.3#	21.8	19.5#	***	* * *	0.0	050	8.8
Information?	29	* * *	27.1#	21.9	18.9#	***	***	0.0	080	9.9
> Global Climate	30	* * *	28.2#	22.8	19.6#	***	* * *	0.0	040	9.2
Services	31	* * *	28.5#	22.9	19.6#	***	***	0.0	050	12.1
> Other Useful Links										

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data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Climate Forecast Climate Change

El Nino and La Nina

Earthquakes and Tsunamis

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

Appendix I Impact Daytime Construction Noise Monitoring Results

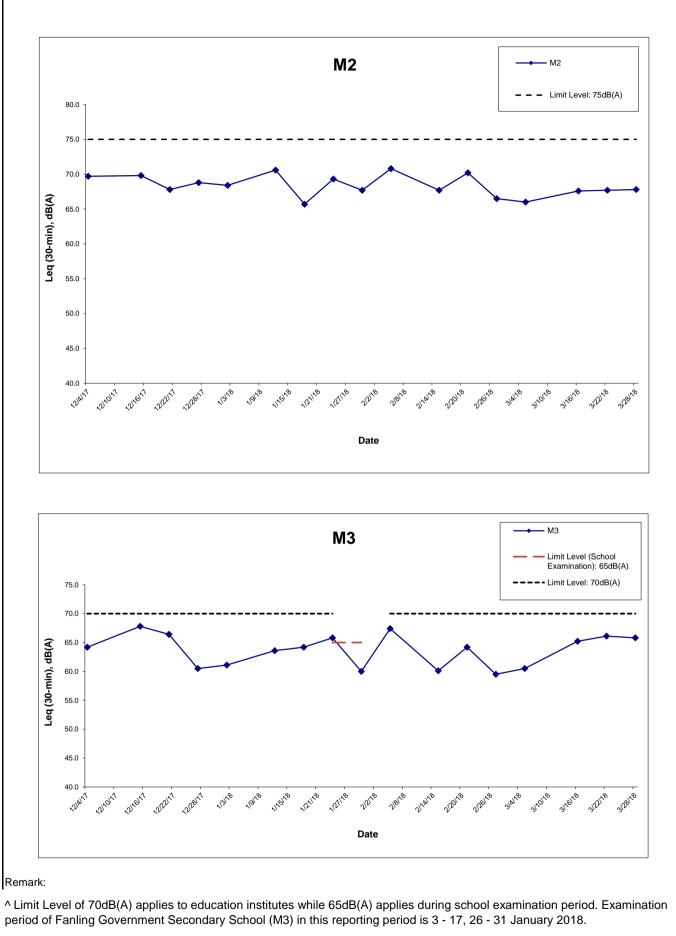
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	Measured Noise Level for 30-min, dB(A)				Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
5-Mar-18	14:00	66.0	68.0	64.0	75	N
16-Mar-18	11:30	67.6	69.2	65.3	75	N
22-Mar-18	14:00	67.7	69.0	65.0	75	N
28-Mar-18	15:35	67.8	69.5	65.2	75	N
	Min	66.0	68.0	64.0		
	Max	67.8	69.5	65.3		
	Average	67.3	69.0	64.9		

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

	Meas	Measured Noise Level for 30-min, dB(A)				Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
5-Mar-18	13:00	60.5	61.5	58.0	70	N
16-Mar-18	10:27	65.2	67.0	63.1	70	N
22-Mar-18	13:00	66.1	61.5	57.5	70	N
28-Mar-18	14:40	65.8	67.7	63.2	70	N
	Min	60.5	61.5	57.5		
	Max	66.1	67.7	63.2		
	Average	64.9	65.4	61.2		

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



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CONTRACT NO. HY/2012/06			
WIDENING OF FANLING HIGHWAY	1		
- TAI HANG TO WO HOP SHEK INT	ERCHANGE		
		Graphical Presentation of Impact Daytime Construction Noise	
		Monitoring Results	
Project No.: 60307376	Date:	Apr-18	Annendiy 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. 	1. 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		Actior	ı	
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. 	 proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by ER until the exceedance is

Event / Action Plan for Noise Impact

Event		Action	ı	
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. 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the 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 failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. 	 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



Inspection Information

nopoolion milorma		
Contract No.	HY/2012/06	
Date:	6 March 2018	
Time:	13:30	
Inspection No.:	225	

Non-compliance

Nil			
		 	 100000000000000000000000000000000000000

Observations

Follow-up Observation(s)

1. Mud trail found at the vehicle exit point at NB60 has been removed and the wheel washing area has been paved with concrete. (Closed)

New Observation(s)

2. Public access road near site boundary was observed dusty at SA310. The Contractor was advised to clean up the road and implement effective measures to prevent muddy surface runoff being spilled from the site to public area.

Reminder (s)

Follow-up Observation(s) – 02/HY/2015

Nil.

Nil.

<u>New Observation(s) – 02/HY/2015</u> Nil.

<u>Reminder (s) – 02/HY/2015</u> Nil.

Remarks

Nil

	Name	Signaturę	Date
Prepared by	Sammi Lam	Carlo	6 March 2018
Checked by	Y W Fung	71	6 March 2018





Inspection Information

Contract No.	HY/2012/06	
Date:	15 March 2018	
Time:	14:00	
Inspection No.:	226	

Non-compliance

Nil

Observations

<u>ollow-up Observation(s)</u> usty public access road near site boundary at SA310 has been cleaned up. (Closed) <u>ew Observation(s)</u> il. <u>eminder (s)</u>
ew Observation(s) il. eminder (s)
il. eminder (s)
eminder (s)
he Contractor was reminded to cover the exposed stockpile of dusty materials at SA346 entirely with npervious sheeting for dust suppression.
he Contractor was reminded to clean up the dust on public access road at Tai Wo Service Road /est regularly.
ollow-up Observation(s) – 02/HY/2015
il.
ew Observation(s) – 02/HY/2015
xposed stockpile of dusty materials without proper cover was observed. The Contractor was advised cover the stockpile entirely with impervious sheeting.
eminder (s) – 02/HY/2015
×

Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	(asw	15 March 2018
Checked by	Y W Fung	81	15 March 2018





Inspection Information

Contract No.	HY/2012/06	
Date:	20 March 2018	
Time:	14:00	
Inspection No.:	227	

Non-compliance

I	il	

Observations

Follow-up Observation(s)
The exposed stockpile of dusty materials at SA346 has been covered entirely with impervious sheeting for dust suppression. (Closed)
Dust on public access road at Tai Wo Service Road West has been cleaned and a water bower has been deployed to wash the road in daily basis. (Closed)
New Observation(s)
Exposed stockpiles of dusty materials were observed at SA340. The Contractor was advised to cover the stockpiles entirely with impervious sheeting for dust suppression.
Chemical containers without secondary containment were observed at SA340. The Contractor was advised to provide drip tray for the chemical containers to avoid potential leakage.
Reminder (s)
Nil.
Follow-up Observation(s) – 02/HY/2015
Exposed stockpile of dusty materials without proper cover has been covered with impervious sheeting entirely. (Closed)
New Observation(s) – 02/HY/2015
Nil.
<u>Reminder (s) – 02/HY/2015</u>
Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	Carlo	20 March 2018
Checked by	Y W Fung	0	20 March 2018

AECOM

Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06	
Date:	27 March 2018	
Time:	14:00	
Inspection No.:	228	

Non-compliance

Nil

Observations

Follow-up Observation(s) Exposed stockpiles of dusty materials observed at SA340 have been covered entirely with impervious 1. sheeting for dust suppression. (Closed) 2. Chemical containers without secondary containment observed at SA340 have been removed. (Closed) New Observation(s) 3. Exposed stockpiles of dusty materials were observed at SA329. The Contractor was advised to cover the stockpiles entirely with impervious sheeting for dust suppression. Mud trail and dusty materials were observed near vehicle exit points at NB60. The Contractor was 4. advised to clear the dusty materials and pave the wheel washing area with hardcore. Reminder (s) 5. The Contractor was reminded to plug the opening of the drip tray observed at NB60 to prevent potential leakage. Follow-up Observation(s) - 02/HY/2015 Nil. New Observation(s) - 02/HY/2015 Nil.

Reminder (s) - 02/HY/2015

Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	Certu	27 March 2018
Checked by	Y W Fung	01	27 March 2018

AECOM

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

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

	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	- 1	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		8

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
	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.			
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

	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 COMPLAINT INVESTIGATION REPORT

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-08

(Related Previous Enquiry NO.: --)

COMPLAINT DETAILS

Date Received	1 March 2018	
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	25 February 2018		

Details of Complaint:

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.

Investigation and Findings :

As advised by the Contractor (China State Construction Engineering (HK) Ltd.), road resurfacing at northbound of Fanling Highway near Tai Hang was undertaken during the concerned period under the Construction Noise Permit (CNP), GW-RN0021-18. Resurfacing works was 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-RN0021-18.

Works Area	CNP No.	Effective Date
CH21.3 – CH21.8	GW-RN0021-18	28 January 2018 – 3 June 2018

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

Time	PME used (with No. of Units)	
01:30 – 03:00 a.m.	1 no. of asphalt paver; and	
	1 no. of dump truck	
03:00 – 04:00 a.m.	1 no. of road roller; and	
	1 no. of roller vibratory	

The construction works carried out within the concerned period, which was reported by the Contractor, was considered to be in compliance with the CNP. One of the Group C and D of the PME items listed in the condition 3.a of the CNP were operated alternatively without overlapping within the concerned period. 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	
Activity to	* No Exceedance /- Action / Limit -

Recommended Mitigation Measures:

- 1) Strictly follow all terms and conditions of a valid CNP;
- 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.

MONITORING

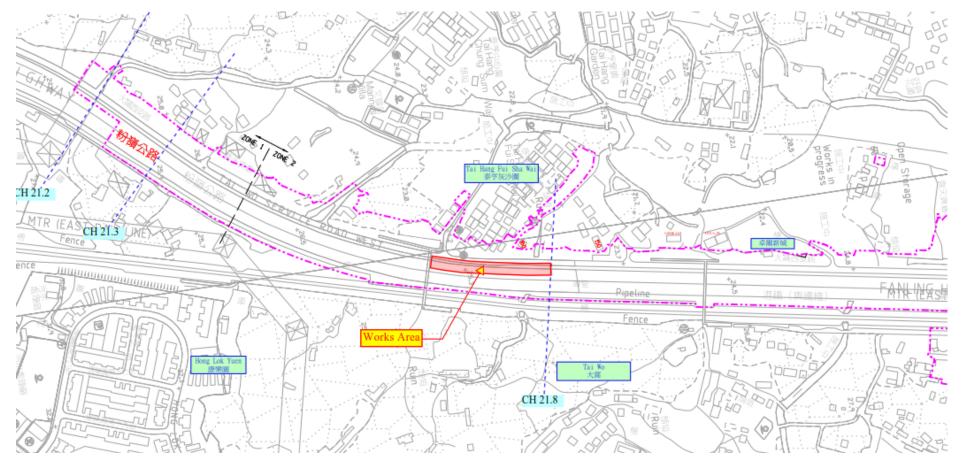
^{*} Delete where inappropriate

Ad hoc Monitoring undertaken	* Yes / No	
* Delete where inappropriate		

Prepared by:	Y W Fung	
Designation:	Environmental Team Leader	
Signature:		
Date:	6 April 2018	

FIGURE

Figure 1 – Site Layout Plan



ATTACHMENT

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

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

CONSTRUCTION NOISE PERMIT NO. GW-RN0021-18

To: China State Construction Engineering (Hong Kong) Limited

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of powered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of prescribed construction work, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence.

CONDITIONS

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

Full address :	The section of H	anling Highwa	y Northbound	between CH2	1.3 and	CH21.8, Ta	i Po,	New
Territories	(Highways Depart	ment Contract N	o. HY/2012/06	- Widening of	Fanling	Highway – T	'ai Har	ng to
Wo Hop Sh	nek Interchange)			-		Lot]	No	

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

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

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

Identification code of item of powered mechanical equipment (if applicable)	Description of item of Powered mechanical equipment	No. of units
-	Refer to attached sheet	

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

Date and time of commencement : 28th January 2018 at 0030 hours

Days and hours: 0000-2400 hours on general holiday (including Sundays), 0000-0700 hours and 1900-2400

hours on any day not being a general holiday [but note Condition 3.d.1 below for the operating hours within

at

0600 hours

which the use of the above listed powered mechanical equipment is allowed].

This part of the permit expires on : 3rd June 2018

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

Please refer to attached sheet 1 and sheet 2 for conditions imposed for this construction noise permit [which is issued as a **special case** due to constraints on working hours to **avoid causing serious interruption to road transport**].

-1 -

4. Prescribed Construction Work

a. Type of prescribed construction work which may be carried out inside the site boundary:

Identification code of type of prescribed construction work	Description of type of Prescribed construction work
PCW 002	Loading, unloading or handling of rubble

b. Validity of the construction noise permit for the carrying out of the prescribed construction work:

Date and time of commencement :	28 th January 2018	at0030 hours	
Days and hours : 0000-2400 h	ours on general holiday (incl	uding Sundays), 0000-0700 hours and 1	900-2400
hours on any day not being a	general holiday [but note Cor	dition 4.d.1 below for the operating hou	rs within
which the carrying out of the	above listed prescribed const	uction work is allowed].	
This part of the permit expires on :	3 rd June 2018	at0600 hours	

c. Site layout plan(s), endorsed by the Authority, may be attached with the permit to indicate the locations permitted for the carrying out of prescribed construction work described in this permit. The layout plan(s) is(are) required to be kept on the construction site and made available for inspection by the Authority.

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

Please refer to attached sheet 2 for conditions imposed for this construction noise permit [which is issued as a **special case** due to constraints on working hours to **avoid causing serious interruption to road transport**].

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

Dated this 23rd Day of January 2018

Signed:

(CHENG Kai-wa) for Authority

Delete as necessary

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

建築噪音許可證編號: <u>GW-RN0021-18</u>

致:中國建築工程(香港)有限公司

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

條件

 可使用機動設備及/或進行訂明建築工程的建築地盤: 詳細地址: 新界大埔介乎鏈距 CH21.3 與 CH21.8 之間的一段粉嶺公路北行線 (路政署合約編號:HY/2012/06-粉嶺公路擴闊工程 — 泰亨至和合石交匯處)。

地段编號: ---

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

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

各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
	參照附頁	
x		

b. 可使用機動設備的建築噪音許可證有效期:

生效日期及時間:	二零一八年一月二十八日	凌晨零時三十分
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	E晚上十二時[但須注意條件 3.d.1 有關F	可以使用上列機動設備的時間]。
此部分許可證屆滿日期及	时間: 二零一八年六月三日	上午六時
[/王華]	日期	時間

- c. 建築地盤須備有本建築噪音許可證所述每件機動設備的照片各一幀,供監督隨時查看;該等照片須經監督認可。
- d. 規限使用機動設備的其他條件: 請參見附頁一及附頁二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。而該特別個案是為避免於其他時段施工時引致嚴重妨礙道路交通的情況而處理的]。

4. 訂明建築工程

a. 在地盤範圍內可進行的訂明建築工程:

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

b. 明建築工程的建築噪音許可證有效期:

生效日期及時間	:	二零一八年一月二十八日	凌晨零時三十分	
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	
時至上午七時及一	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:	二零一八年六月三日	上午六時	
		日期	時間	

- 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:
 請參見附頁二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。而該特別個案是為避免於其他時段施工時引致嚴重妨礙道路交通的情況而處理的]。

5. 本建築噪音許可證或其副本必須展示於建築地盤的 所有車輛出入口處,給予公眾人士參閱。

二零一八年一月二十三日 日期:

簽署:

監督 (**鄭啟華**代行)

* 刪去不適用者



Sheet 1 of 2

Sheet Attached to Construction Noise Permit No. GW-RN0021-18

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

powered mecha	code of item of nical equipment plicable)	Description of item of Powered mechanical equipment	No. of units
Group A :		Road marking material boiler, lorry mounted	One
Group B :		Mini Road miller	One
		Dump truck, 5.5 tonne < gross vehicle weight \leq 38 tonne	One
Group C :	CNP 004	Asphalt paver	One
	58	Dump truck, 5.5 tonne < gross vehicle weight \leq 38 tonne	One
Group D :	CNP 185	Road roller	One
	CNP 186	Roller, vibratory	One
Group E :		Lorry with crane, 5.5 tonne < gross vehicle weight ≤ 38 tonne	One

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

1. Subject to conditions 3.d.6 & 3.d.7 below, the powered mechanical equipment listed in condition 3.a. shall only be operated during the hours shown below :

Sunday	0030 – 0600 hours

- 2. 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.
- 3. 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 Permit no. **GW-RN792-17** is being carried out.
- 4. The powered mechanical equipment listed in condition 3.a. shall only be operated within <u>Six</u> nights during the validity period of this construction noise permit.
- 5. Only one group of the powered mechanical equipment listed in condition 3.a. shall be allowed to be operated at any time.
- 6. Mini Road miller shall not be operated between 0230 and 0600 hours.
- 7. The powered mechanical equipment of Group C and Group D listed in condition 3.a. shall not be operated between 0430 and 0600 hours.

Signed :



(CHENG Kai-wa)

for Authority



Sheet 2 of 2

Sheet Attached to Construction Noise Permit No. GW-RN0021-18

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

- 8. All flaps and panels of Asphalt paver (CNP 004), Mini Road miller, Road roller (CNP 185) and Roller, vibratory (CNP 186) shall be closed.
- 9. Asphalt paver (CNP 004), Mini Road miller, Road roller (CNP 185) and 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.
- 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 shall be carried out outside restricted hours as far as practical.

4.d. Other conditions imposed on the carrying out of the Prescribed Construction Work:

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

Sunday	0030 – 0600 hours
	У

- 2. 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.
- 3. 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 Permit no. **GW-RN0792-17** is being carried out.
- 4. The prescribed construction work listed in condition 4.a. shall only be carried out within <u>Six</u> nights during the validity period of this construction noise permit.
- 5. Rubber padding or sheeting of minimum 10 mm thick, or appropriate resilient material shall be placed between hard surfaces when carrying out the loading, unloading or handling of rubble (PCW 002).
- 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. 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.
- 8. The construction work shall be carried out outside restricted hours as far as practical.



Signed : (CHENG Kai-wa)

for Authority

SPECIAL CASE – avoid causing serious interruption to road transport 特別個案 - 避免引致嚴重妨礙道路交通

第一頁(共二頁)

建築噪音許可證 編號 GW-RN0021-18 的附頁

3.a. 在地盤範圍內可使用的各項機動設備:

	設備的識辨代碼 適用的話)	各項機動設備的說明	數目
A 組:		道路油漆熔爐,裝在貨車上	壹
B組:		小型碾路機	壹
		卸土車,5.5 噸 < 總重量 ≦ 38 噸	壹
C 組:	CNP 004	瀝青攤鋪機	壹
		卸土車,5.5 噸 < 總重量 ≤ 38 噸	壹
D組:	CNP 185	道路滾壓機	壹
	CNP 186	滾壓機震盪型	壹
E組:		吊臂貨車,5.5 噸 < 總重量 ≦ 38 噸	壹

3.d. 規限使用機動設備的其他條件:

1. 除以下條件 3.d.6 及 3.d.7 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:

星期日	凌晨零時三十分 至 上午六時	
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 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。

- 3. 當進行建築噪音許可證編號 GW-RN0792-17 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。
- 4. 祇可於此建築噪音許可證有效日期內的其中陸晚使用列在條件3.a.內的機動設備。
- 5. 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。
- 6. 小型碾路機不可在凌晨二時三十分至上午六時使用。
- 7. 列在條件3.a.內的C組及D組機動設備不可在凌晨四時三十分至上午六時使用。





監督 (鄭啟華 代行)

SPECIAL CASE – avoid causing serious interruption to road transport 特別個案 – 避免引致嚴重妨礙道路交通

第二頁(共二頁)

建築噪音許可證 編號 GW-RN0021-18 的附頁

3.d. 規限使用機動設備的其他條件:

- 8. 瀝青攤鋪機(CNP 004)、小型碾路機、道路滾壓機(CNP 185)及滾壓機震盪型(CNP 186)的所有覆蓋 及嵌板必須關閉。
- 9. 在瀝青攤鋪機(CNP 004)、小型碾路機、道路滾壓機(CNP 185)及滾壓機震盪型(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。
- 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. 在可能範圍內,有關的建築工程須在非限制時間內進行。

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:

星期日	凌晨零時三十分 至 上午六時

- 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。
- 3. 當進行許可證編號 GW-RN0792-17 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。
- 4. 祇可於此建築噪音許可證有效日期內的其中陸晚進行列在條件 4.a.內的訂明建築工程。
- 5. 當進行裝卸或處理瓦礫的工程(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。

簽署

- 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. 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。
- 8. 在可能範圍內,有關的建築工程須在非限制時間內進行。







(鄭啟華 代行)

Photographs attached to Construction Noise Permit No. <u>GW-RN0021-18</u>



小型碾路機 Mini Road miller



CNP 004

瀝青攤鋪機 Asphalt paver

Photographs attached to Construction Noise Permit No. <u>GW-RN0021-18</u>



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



道路油漆熔爐,裝在貨車上 Road marking material boiler, lorry mounted

Photographs attached to Construction Noise Permit No. <u>GW-RN0021-18</u>



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



CNP 185 道路滾壓機 Road roller

Photographs attached to Construction Noise Permit No. <u>GW-RN0021-18</u>



CNP 186 滾壓機震盪型 Roller, vibratory

