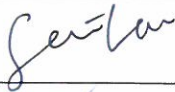



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for November 2018 to January 2019**

[2/2019]

	Name	Signature
Prepared & Checked:	Sammi Lam	
Reviewed & Approved:	Y W Fung	

Version:	Rev. 0	Date: 25 February 2019
Disclaimer <p>This report is prepared for Environmental Protection Department and is given for its sole benefit in relation to and pursuant to Contract No. HY/2012/06 and may not be disclosed to, quoted to or relied upon by any person other than Environmental Protection Department without our prior written consent. No person (other than Environmental Protection Department) into whose possession a copy of this report comes may rely on this report without our express written consent and Environmental Protection Department may not rely on it for any purpose other than as described above.</p>		

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Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
17/F, Two Harbour Square,
180 Wai Yip Street,
Kwun Tong, Hong Kong
Attn: Mr. James Penny

Your Reference

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)

Our Reference

AFK/EC/ST/cy/T329380/2
2.05/L-0252

**Environmental Permit No. EP-324/2008/E
Quarterly EM&A Summary Report for November 2018 to January 2019 for the portion of Stage 2 works under Contract No. HY/2012/06**

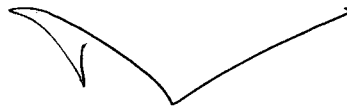
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mottmac.hk

We refer to the Quarterly EM&A Summary Report for November 2018 to January 2019 for the captioned Project received on 22 February 2019 submitted by ET via email. We confirm we have no comment.

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)
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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 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 three works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. In addition, Contract No. “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project and “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 “Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)”. The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

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

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

This report documents the findings of EM&A works conducted in the period between 1 November 2018 and 31 January 2019. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Bridge construction
- Piling
- Demolition of temporary bridge

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 period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

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

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 Project Organization and Contacts of Key Management

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

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06] (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		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

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 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
- Bridge construction
- Piling
- Demolition of temporary bridge

1.3.2 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.

1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.3a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 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.
- 3.1.2 The weather was mostly sunny, occasionally fine, cloudy and rainy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	65.1	58.4 – 71.7	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	50.7	27.0 – 95.3	200.7	260

3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.

3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.

3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

4.1.1 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.

4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2* (West Tai Wo)	67.1	61.0 – 69.7	75
M3# (Fanling Government Secondary School)	63.1	59.0 – 66.2	65/70

*+3dB(A) Façade correction included

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

4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.

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

4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 10,845 m³ of inert C&D material was generated in the reporting period 234 m³ was broken concrete, 4,851 m³ was reused in the Contract, 4,117 m³ was reused in other Projects and 1,646 m³ was disposed as public fill to Tuen Mun 38). 325 kg of general refuse was disposed of at NENT landfill. 0 kg of metals, 223 kg of paper and 25 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.

5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table for Contract No. HY/2012/06

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	1,643 m ³	Tuen Mun 38
Broken concrete	234 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	325 m ³	NENT Landfill
Paper/cardboard packaging	223 kg	Recycling Facilities
Plastics	25 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	4,851 m ³	Site Area
C&D materials reused in other projects	4,117 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons and successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Contract No. HY/2012/06

Air Quality Impact

- The Contractor was advised to cover the dry exposed stockpile entirely with impervious sheeting for dust suppression.
- The Contractor was advised to spray the dry exposed area with water regularly for dust suppression.
- The Contractor was advised to clear the dusty materials at the site entrance and ensure all vehicle are properly wheel-washed before leaving the site.
- The Contractor was advised to keep the site entrance clear of dusty materials and provide perimeter channel at the site boundary to collect surface runoff from the site effectively.
- The Contractor was advised to ensure valid NRMM labels are affixed to all equipment.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor was advised to remove the stagnant water and ensure the perimeter channel collects the surface runoff from the site effectively without overflow and keep the site entrance clear of dusty materials.
- The Contractor was advised to remove the muddy water and ensure surface runoff is trapped effectively along the site boundary.
- The Contractor was advised to remove the soil spread on access road.

Chemical and Waste Management

- The Contractor was advised to provide drip tray for the chemical container to prevent potential leakage.
- The Contractor was advised to dispose of the general refuse off site regularly to keep the site clean and tidy.
- The Contractor was advised to remove the retained water in the drip tray to prevent overflow.
- The Contractor was advised to remove the empty chemical container and dispose of as chemical waste if it is contaminated.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor was advised to pump out the stagnant water.

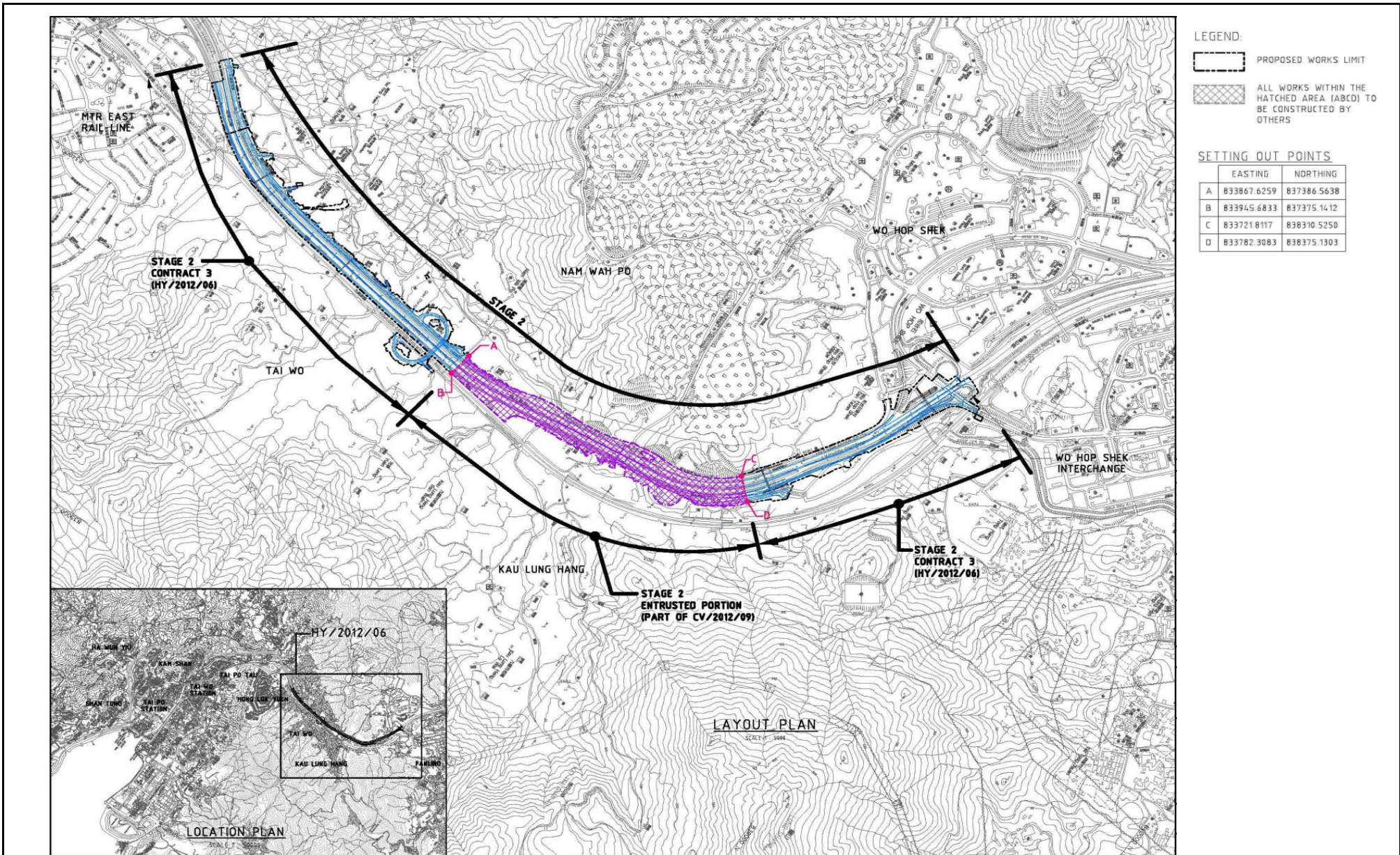
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 8.3.3 No complaint, notification of summons and successful prosecution was received in the reporting period.

FIGURES



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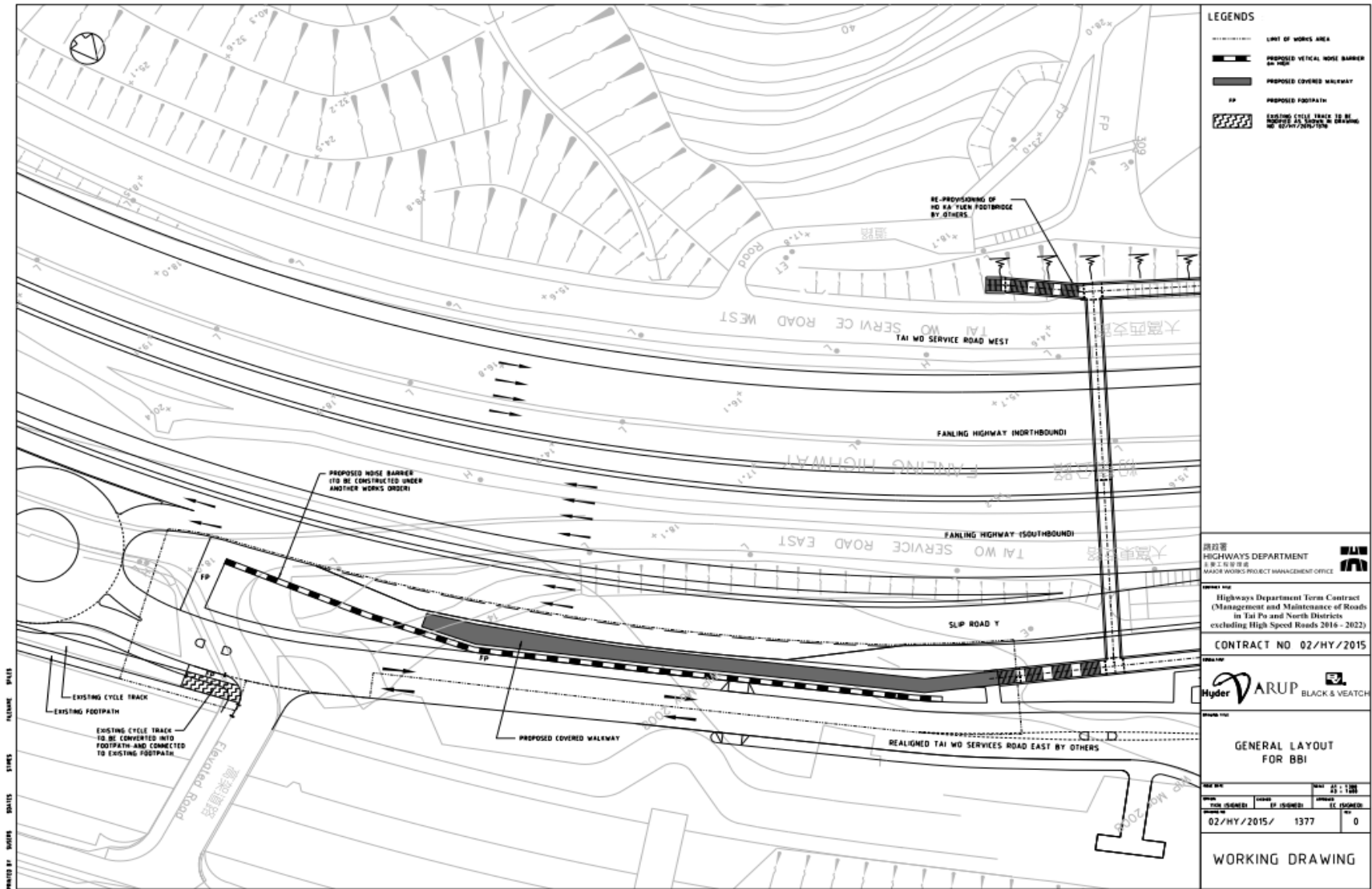
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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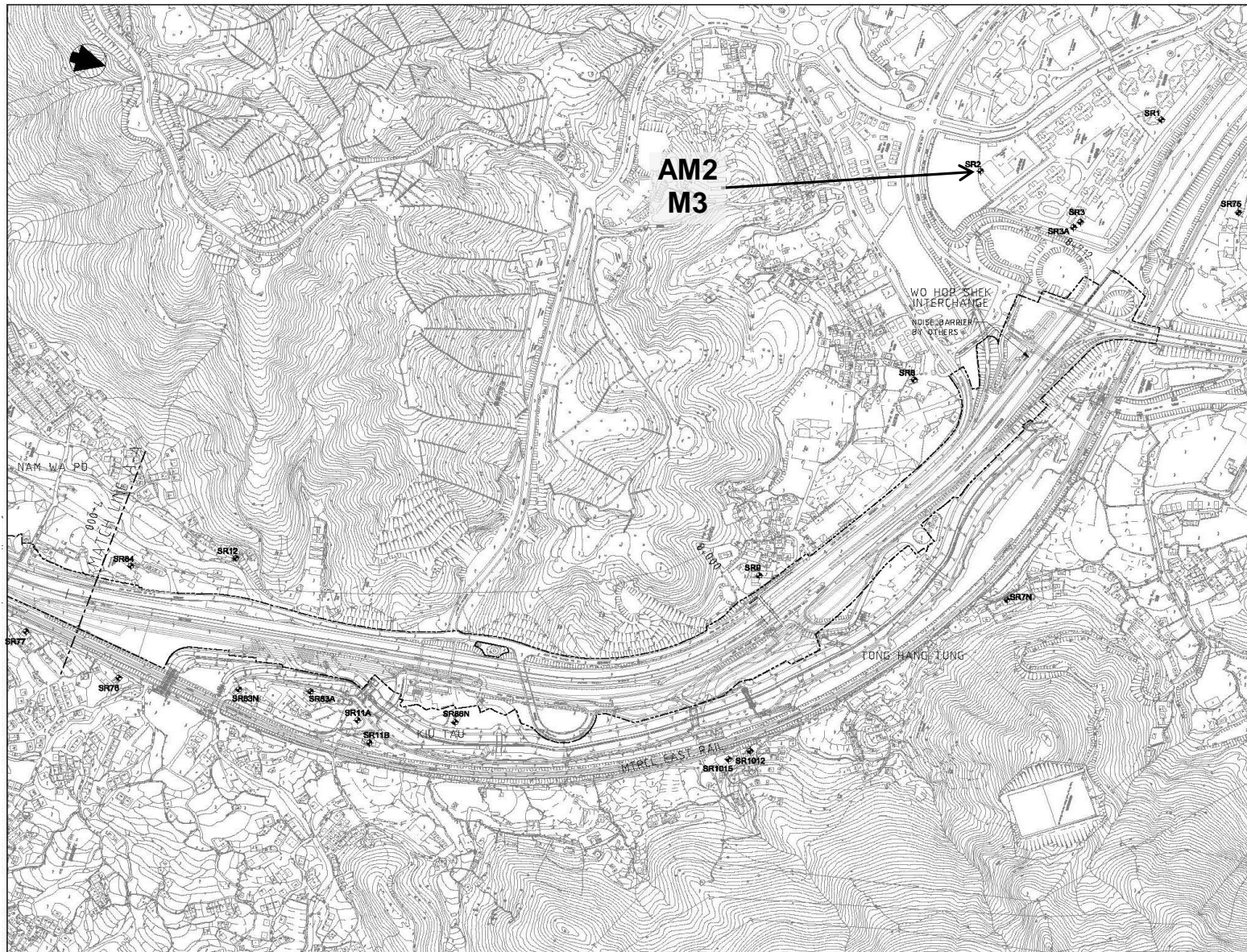
CONTRACT NO. 02/HY/2015
 PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



Layout Plan

Date: Apr 2017

Figure 1.2



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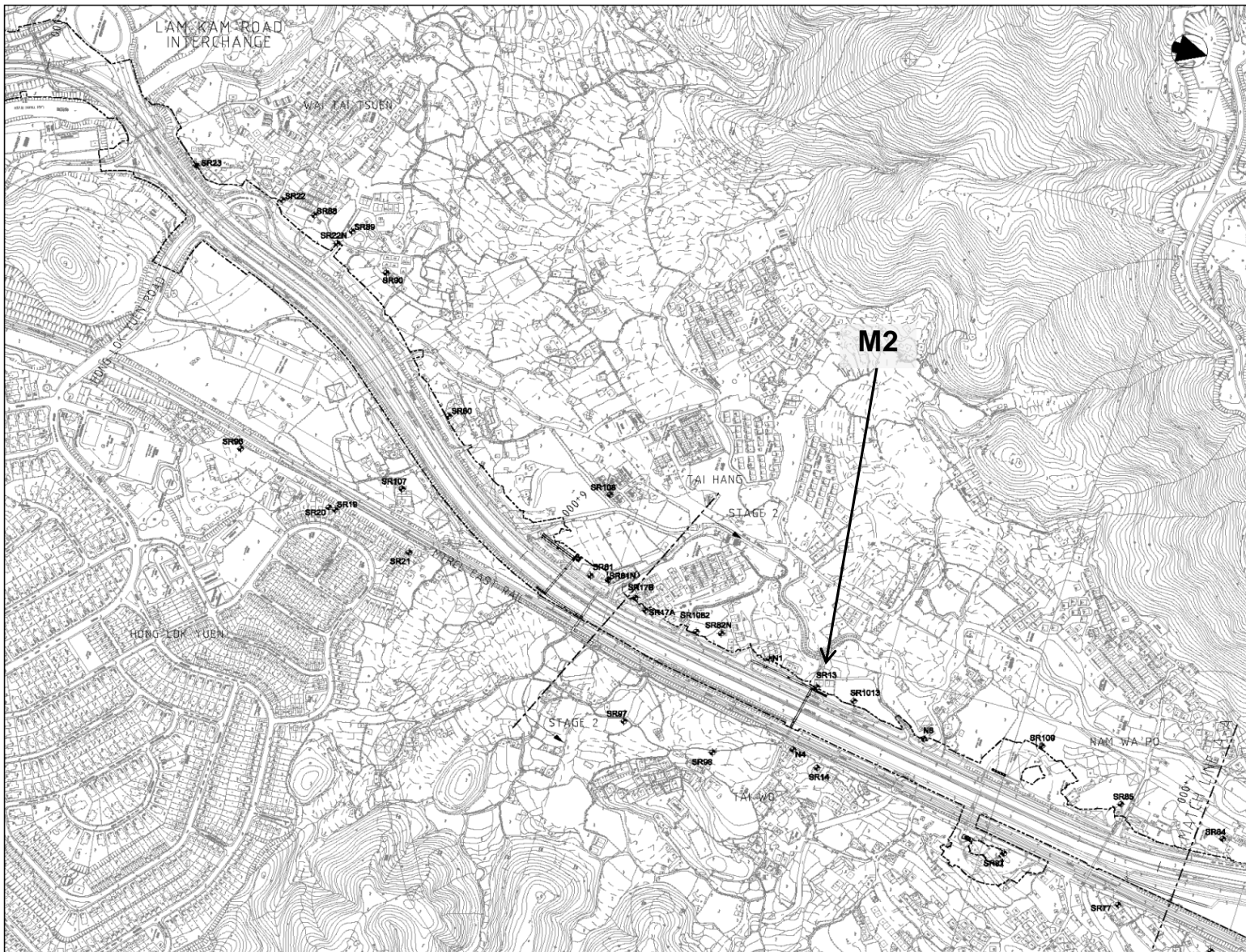
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



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

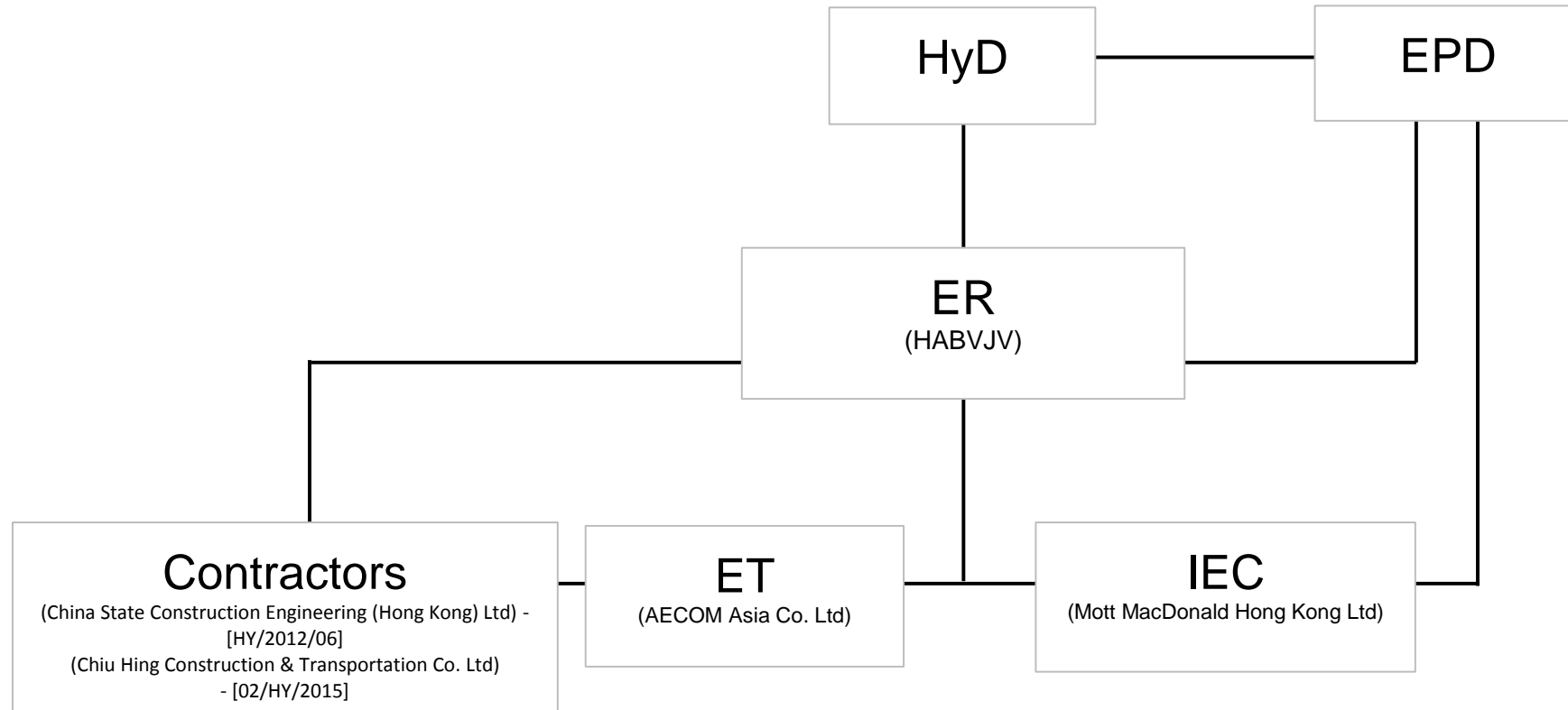


Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

**CONSTRUCTION PROGRAMME OF
NOVEMBER 2018**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
								Nov		Dec		Jan		Feb
								Actual	Remaining	Actual	Remaining	Actual	Remaining	Actual
Contract Condition														
General														
Contract Condition														
Contract Condition														
KD19	KD-19 (1734d)- N5:Acheive: Rd widening & reconst. of Fanling	0%	0	0		24-Nov-18	45						24-Nov-18* ◆ KD-19 (1734d)- N5:Acheive: Rd widening & reconst. of Fanling Highway@NB	
ZONE 1 (Ch. 5640 to 5880)														
Noise Barrier Along Fanling Highway N/B														
Site Clearance & Demolition of Existing Structure														
General														
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		02-Jan-19	116						02-Jan-19 ◆ Zone 1 - Noise Barrier at FH N/B complete	
NB43B (Ch.5640-5880)-FH N/B Side														
Noise Barrier Works														
NB01216	NB43B-0 - Structure works of additional bay between tolo 2 & 3 -	77.5%	9	40	11-Sep-18 A	29-Nov-18	111							
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	30-Nov-18	02-Jan-19	111							
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	03-Jan-19	08-Jan-19	111							
NB01300	NB43B-2 - NB post & panel installation	0%	5	5	05-Nov-18 A	24-Nov-18	146							
NB01350	NB43B-3 - NB post & panel installation	0%	5	5	07-Nov-18 A	24-Nov-18	146							
TWSR-West Construction														
Drainage & Road Works														
Ch 5640-5880														
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	45.55%	104	191	07-Aug-18 A	26-Mar-19	47							
Fanling Highway Construction														
Drainage & Road Works														
Ch 5640-5880														
RDZ11020	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane	45%	11	20	05-Nov-18 A	01-Dec-18	-4							
RDZ11030	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	0%	16	16	03-Dec-18	20-Dec-18	-4							
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	16	16	21-Dec-18	11-Jan-19	-4							
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	0%	60	60	12-Jan-19	25-Mar-19	-4							
Other Works														
Landscape Softwork														
Landscape Works														
Z1.LW.1000	Landscape soft work Zone1	0%	150	150	10-Dec-18	14-Jun-19	-4							
ZONE 2 (Ch. 5880 to 6930)														
General														
DRM Proposal														
DRM Proposal														
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	39.93%	248	412	20-Nov-17 A	19-Sep-19	-209							
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	89.77%	35	342	05-Oct-17 A	02-Jan-19	116							
Noise Barrier Along Fanling Highway N/B														
NB43A (Ch.5880-6060)-FH N/B Side														
Noise Barrier Works														
NB001110	NB43A - ID1-2 backfilling	69.23%	12	39	15-Sep-18 A	03-Dec-18	27							
NB001120	NB43A - ID1-2 NB production	40%	45	75	20-Sep-18 A	03-Jan-19	112							
NB001130	NB43A - ID1-2 NB post & panel installation	0%	5	5	04-Jan-19	09-Jan-19	90							
NB01530	NB43A-1 - backfilling	0%	12	12	17-Nov-18 A	03-Dec-18	27							
NB01550	NB43A-1 - NB post & panel installation	0%	5	5	04-Dec-18	08-Dec-18	114							
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	92.66%	13	177	03-Apr-18 A	04-Dec-18	-22							
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	29.41%	24	34	08-Oct-18 A	17-Dec-18	-33							
NB01576	NB43A-2 (86.8-166.7m) - Drainage Works (VO on 14-6-18 - add 1	0%	6	6	18-Dec-18	24-Dec-18	-33							
NB01580	NB43A-2 - backfilling	0%	12	12	12-Jan-19	25-Jan-19	-16							
NB01590	NB43A-2 - NB production	72.64%	29	106	04-Aug-18 A	18-Dec-18	128							
NB01600	NB43A-2 - NB post & panel installation	0%	5	5	19-Feb-19	23-Feb-19	53							
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	05-Dec-18	11-Jan-19	-16							
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	12-Jan-19	18-Feb-19	53							
NB50 (Ch.6060-6130)-FH N/B Side														
Noise Barrier Works														
NB001170	NB50 -Footing & Wall Structure	75%	15	60	07-Nov-18 A	06-Dec-18	-18							
NB001175	NB50 - Drainage Works	0%	24	24	27-Dec-18	24-Jan-19	-33							
NB001180	NB50 -backfilling	0%	12	12	01-Feb-19	16-Feb-19	-33							
NB001190	NB50 -NB production	0%	45	45	07-Dec-18	20-Jan-19	95							
NB001200	NB50 -NB post & panel installation	0%	5	5	18-Feb-19	22-Feb-19	54							
NB17571	NB50 - Drainage Works (VO on 14-6-18 - add 1 manhole)	0%	6	6	25-Jan-19	31-Jan-19	-33							
NB50A (Ch.6130-6450)-FH N/B Side														
Noise Barrier Works														
NB001240	NB50A - ID2-2 Footing & Wall Structure	0%	50	50	20-Nov-18 A	19-Jan-19	-195							
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	21-Jan-19	12-Feb-19	-195							
NB001250	NB50A - ID2-2 backfilling	0%	12	12	13-Feb-19	26-Feb-19	-41							
NB001260	NB50A - ID2-2 NB production	0%	45	45	19-Jan-19	05-Mar-19	51							
NB01610	NB50A (0-108m) - Sheet piling & Excavation	58.33%	5	12	29-Oct-18 A	24-Nov-18	-195							

	Project ID:WP Rev 06 (1811)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Nov-18)</p>		Date	Revision	C..Ap...
	Layout: 3 Month Rolling Program			28-Aug-15	WP Rev 2	
Page 1 of 6				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
				17-Aug-17	WP Rev 5	
				28-Mar-18	WP Rev 6	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
								Nov		Dec		Jan		Feb
NB01620	NB50A(0-108m) - Footing & Wall Structure	0%	78	78	26-Nov-18	01-Mar-19	-195							
NB01660	NB50A(132-228m) - Sheet piling & Excavation	50%	5	10	29-Oct-18 A	24-Nov-18	-203							
NB01670	NB50A(132-228m) - Footing & Wall Structure	0%	71	71	26-Nov-18	21-Feb-19	-203							
NB60 (Ch.6450-6920)-FH N/B Side														
Noise Barrier Works														
NB01790	NB60-1 -(15-63m) Footing & Wall Structure	28.21%	28	39	06-Oct-18 A	21-Dec-18	-49							
NB01810	NB60-1 - NB production	0%	45	45	22-Dec-18	04-Feb-19	80							
NB01865	NB60-2 (108-174m) - Drainage Works	0%	24	24	11-Dec-18	10-Jan-19	-27							
NB01866	NB60-2 (108-174m) - Drainage Works (VO on 16-10-18 - add 2	0%	12	12	11-Jan-19	24-Jan-19	-27							
NB01870	NB60-2 - backfilling	0%	12	12	25-Jan-19	09-Feb-19	-27							
NB01880	NB60-2 - NB production	0%	45	45	20-Nov-18	03-Jan-19	112							
NB01890	NB60-2 - NB post & panel installation	0%	5	5	11-Feb-19	15-Feb-19	60							
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	20-Nov-18	10-Dec-18	-27							
NB01940	NB60-ID3-2 - backfilling	0%	12	12	11-Dec-18	24-Dec-18	9							
NB01950	NB60-ID3-2 - NB production	0%	45	45	20-Nov-18	03-Jan-19	112							
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	04-Jan-19	09-Jan-19	90							
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	95%	6	110	20-Aug-18 A	26-Nov-18	-209							
NB02005	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - remain 1	0%	6	6	26-Nov-18	03-Dec-18	-209							
NB02006	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - add 11	0%	176	176	03-Dec-18	10-Jul-19	-209							
NB02020	NB60-3 - NB production	0%	45	45	26-Nov-18	10-Jan-19	106							
NB02022	NB60-3 - NB post & panel installation	0%	5	5	10-Jan-19	16-Jan-19	85							
Underground Utility Works														
Underground Utility Works														
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	46.43%	120	224	15-Aug-18 A	10-Apr-19	-94							
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	65.42%	120	347	20-Apr-18 A	16-Apr-19	-94							
Bridge Construction														
New Tai Hang Footbridge														
TWSR-West/ FL Highway N/B Side Section														
THBF0620	Finishes Work	97.33%	14	525	27-Feb-17 A	05-Dec-18	117							
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		05-Dec-18	117							
05-Dec-18 ♦ Bridge Structure complete (THFB-TWSR-W side)														
Crossing Fanling Highway Section														
THBF0590	Finishes Work	92.66%	8	109	20-Jun-18 A	28-Nov-18	123							
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		28-Nov-18	123							
28-Nov-18 ♦ Bridge Structure complete (THFB-Cross fanling highway)														
TWSR-East FL Highway S/B Side Section														
THBF0470	THAB1 - pile cap & abutment wall	92.57%	45	606	21-Nov-16 A	14-Jan-19	6							
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	15-Jan-19	08-Feb-19	6							
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	09-Feb-19	15-Mar-19	6							
THBF0800	ABWF work	0%	30	30	20-Nov-18	24-Dec-18	101							
Lift at TWSR-W Side														
L1555	Glass canopy on ground level	0%	30	30	12-Nov-18 A	24-Dec-18	101							
L1560	Lift installation (NF115)	0%	70	70	12-Nov-18 A	14-Feb-19	28							
L1570	Lift T&C	0%	14	14	15-Feb-19	02-Mar-19	28							
L1590	E&M and Finishes work	0%	120	120	20-Nov-18	15-Apr-19	11							
Lift at FLHY S/B														
L1380	Structural Laminated glass wall installation	0%	30	30	22-Nov-18*	28-Dec-18	-45							
L1400	Roof cover for RC Platform	0%	30	30	20-Nov-18	24-Dec-18	-43							
L1410	Lift installation (NF78)	0%	70	70	29-Dec-18	23-Mar-19	-45							
L1440	E&M and Finishes work	0%	100	100	27-Dec-18	30-Apr-19	-39							
L1450	CLP Power available (by CLP)	96.49%	31	882	21-Jun-16 A	20-Dec-18	39							
New Tai Wo Footbridge														
General														
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	22-Nov-18*		0							
♦ Steel Bridge available on site (TWFB)														
TWSR-West/ FL Highway N/B Side Section														
TWFB1390	Finishes Work	92.95%	34	482	20-May-17 A	31-Dec-18	83							
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		31-Dec-18	83							
31-Dec-18 ♦ Bridge Structure complete (TWFB-TWSR-W side)														
Crossing Fanling Highway Section														
TWFB1440	TWP2 - Pile cap	56.52%	10	23	18-Oct-18 A	30-Nov-18	-12							
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	01-Dec-18	25-Jan-19	-12							
TWFB1447	Erect TWFB across TWSR-W (P1 to P2)	0%	12	12	26-Jan-19	11-Feb-19	-12							
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	27-Dec-18	31-Jan-19	-17							
TWFB1450	Erect TWFB across fanling highway	0%	12	12	01-Feb-19	16-Feb-19	-17							
TWFB1460	Finishes Work	0%	18	18	18-Feb-19	09-Mar-19	-17							
TWSR-East FL Highway S/B Side Section														
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	17.81%	60	73	15-Oct-18 A	31-Jan-19	-17							
Lift at TWSR-W Side														
L1680	Structural Laminated glass wall installation	93.09%	13	188	17-Mar-18 A	04-Dec-18	-16							
L1700	Metal cover on RC platform	0%	30	30	20-Nov-18	24-Dec-18	-33							
L1710	Glass canopy on ground level	0%	30	30	27-Dec-18	31-Jan-19	424							
L1740	Lift installation	0%	70	70	27-Dec-18	21-Mar-19	-20							
L1770	E&M and Finishes work	0%	120	120	27-Dec-18	24-May-19	-33							
Signalized Junction														
New Tai Hang Footbridge														
TWSR-West/ FL Highway N/B Side Section														

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
								Nov		Dec		Jan		Feb
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	0%	90	90	09-Dec-18	08-Mar-19	-61							
Noise Barrier Along Fanling Highway S/B														
NB51 (Ch.5935-6055)-FH S/B Side														
Noise Barrier Works														
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB03390	NB52 (bay 21) - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02460	NB53 (0-100m)- backfilling	0%	50	50	20-Nov-18	19-Jan-19	81							
NB02470	NB53 (0-100m) - NB production	0%	45	45	20-Nov-18	03-Jan-19	112							
NB02480	NB53 (0-100m) - NB post & panel installation	0%	5	5	04-Jan-19	09-Jan-19	90							
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	3.23%	60	62	18-Oct-18 A	31-Jan-19	16							
NB02530	NB53 ID2-3 (100-125m) - backfilling	0%	50	50	01-Feb-19	02-Apr-19	16							
NB02540	NB53 ID2-3 (100-125m) - NB production	0%	45	45	01-Feb-19	17-Mar-19	39							
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02670	NB55 - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02712	NB56 - Drainage Works	0%	6	6	14-Feb-19	20-Feb-19	32							
NB02740	NB56 - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02782	NB61 (0-50m) - Drainage Works	0%	12	12	08-Jan-19	21-Jan-19	32							
NB02784	NB61 (0-50m) - Drainage Works (VO on 14-6-18 - add 3 manhole)	0%	18	18	22-Jan-19	13-Feb-19	32							
NB02790	NB61 (0-50m)- backfilling	88.71%	28	248	20-Jan-18 A	21-Dec-18	103							
NB02800	NB61 (0-50m) - NB production	91%	27	300	20-Jan-18 A	16-Dec-18	130							
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	17-Dec-18	21-Dec-18	103							
NB02832	NB61 (50-160m) - Drainage Works	0%	24	24	07-Dec-18	07-Jan-19	2							
NB02834	NB61 (50-160m) - Drainage Works (VO on 14-6-18 - add 6 manhole)	0%	36	36	08-Jan-19	20-Feb-19	2							
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Nov-18	03-Jan-19	112							
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jan-19	09-Jan-19	90							
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02902	NB61A (0-50m) - Drainage Works	50%	9	18	12-Nov-18 A	29-Nov-18	2							
NB02904	NB61A (0-50m) - Drainage Works (VO on 16-10-18 - add 1 manhole)	0%	6	6	30-Nov-18	06-Dec-18	2							
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	20-Nov-18	24-Nov-18	126							
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	96.93%	33	1076	01-Apr-15 A	29-Dec-18	58							
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	31-Dec-18	23-Jan-19	73							
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	29-Dec-18	12-Feb-19	72							
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	12-Feb-19	18-Feb-19	58							
NB03022	NB61A (75-190m) - Drainage Works	50%	15	30	05-Nov-18 A	06-Dec-18	32							
NB03024	NB61A (75-190m) - Drainage Works (VO on 16-10-18 - add 4 manhole)	0%	24	24	07-Dec-18	07-Jan-19	32							
NB03050	NB61A (75-190m) - NB post & panel installation	96.5%	5	143	05-May-18 A	24-Nov-18	126							
Box Culvert ID3 Works														
VO58 Extension of ID3														
ID30130	Backfill	0%	20	20	01-Feb-19	26-Feb-19	-39							
ID30140	Wing Wall Construction	0%	50	50	01-Dec-18*	31-Jan-19	-39							
Other Works														
TCSS Works														
TCSS Pre-Construction Works														
TCSS0200	Sign Gantry Factory production - FADS1	0%	30	30	21-Jan-19	26-Feb-19	-61							
TCSS0210	Sign Gantry Factory production - G55	56.67%	13	30	31-Oct-18 A	04-Dec-18	-22							
AADS1														
TCSS1400	Slow lane footing - AADS1 (NB43A)	0%	0	0		03-Dec-18	63							
ADS1														
TCSS1970	Back filling & reinstatement road work (2m)	20%	14	18	20-Oct-18 A	06-Dec-18	33							
FADS1														
TCSS2050	TTA application & Approval - FADS1	28.89%	64	90	20-Oct-18 A	07-Feb-19	-45							
G55														
TCSS1740	TTA application & Approval - G55	85.39%	13	89	20-Aug-18 A	04-Dec-18	-22							
TCSS1750	Sign Gantry Erection - G55	0%	28	28	05-Dec-18	09-Jan-19	-22							
Pai Lau in Tai Hang (VO126)														
Pai Lau in Tai Hang (VO126)														
Pai Lau in Tai Hang (VO126)														
PL01000	Works area access date (14-Dec-2018)	0%	0	0	14-Dec-18*		0							
PL01010	CLP relocation of Overhead Cable	0%	12	12	15-Jan-19*	28-Jan-19	0							
PL01020	Excavation	0%	12	12	14-Dec-18	29-Dec-18	6							
PL01030	Footing	0%	12	12	31-Dec-18	14-Jan-19	6							
PL01040	backfill	0%	6	6	15-Jan-19	21-Jan-19	6							
PL01050	Pai Lau Superstructure	0%	65	65	29-Jan-19	17-Apr-19	0							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
								Nov		Dec		Jan		Feb
PL01060	Material submission for finishes works	21.67%	47	60	05-Nov-18 A	16-Jan-19	0							
PL01070	Material submission approval	0%	30	30	17-Jan-19	22-Feb-19	0							
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)														
Noise Barrier Along TWSR-West and Laying New Utilities														
NB64 & NB64A (Ch.6860-6920)-TWSR West Side														
Noise Barrier Works														
NB003350	Bus Shelter footing & shelter near NB64 - VO86	75.76%	40	165	21-May-18 A	08-Jan-19	91							
Noise Barrier Along Fanling Highway N/B														
NB60 (Ch.6450-6920)-FH N/B Side														
Noise Barrier Works														
NB02060	NB60-4 - Footing & Wall Structure	81.63%	18	98	16-Jul-18 A	10-Dec-18	-61							
NB02065	NB60-4 (300-408m) - Drainage Works	0%	24	24	11-Dec-18	10-Jan-19	-61							
NB02066	NB60-4 (300-408m) - Drainage Works (VO on 16-10-18 - add 3	0%	18	18	11-Jan-19	31-Jan-19	-61							
NB02070	NB60-4 - backfilling	0%	20	20	01-Feb-19	26-Feb-19	-61							
NB02080	NB60-4 - NB production	0%	45	45	11-Dec-18	24-Jan-19	91							
NB02082	NB60-4 - NB post & panel installation	0%	5	5	25-Jan-19	30-Jan-19	72							
NB02120	NB60-5 - Footing & Wall Structure	50%	30	60	12-Sep-18 A	24-Dec-18	-55							
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	01-Feb-19	02-Mar-19	-57							
NB02140	NB60-5 - NB production	0%	40	40	25-Dec-18	02-Feb-19	-64							
NB02142	NB60-5 - NB post & panel installation	0%	5	5	04-Feb-19	11-Feb-19	-52							
NB66 (Ch.6920-6930)-FH N/B Side														
Noise Barrier Works														
NB02165	NB66 - Drainage Works	89.47%	16	152	08-May-18 A	07-Dec-18	-59							
NB02170	NB66- backfilling	0%	15	15	27-Dec-18	14-Jan-19	-6							
NB02180	NB66 - NB production	0%	45	45	20-Nov-18	03-Jan-19	112							
NB02190	NB66 - NB post & panel installation	0%	5	5	15-Jan-19	19-Jan-19	81							
NB03320	Bus Shelter footing - VO86	0%	30	30	20-Nov-18	24-Dec-18	-6							
Bridge Construction														
Kau Lung Hang Vehicular Bridge														
KLH Bridge - West Ramp														
KLH.1290	West Ramp - Planting	0%	21	21	20-Nov-18	13-Dec-18	110							
KLH Bridge - Deck 1														
KLH.3430	Deck 1 - Planting	0%	21	21	20-Nov-18	13-Dec-18	110							
KLH Bridge - Deck 3														
KLH.3500	Deck 3 - Planting	0%	21	21	20-Nov-18	13-Dec-18	142							
KLH Bridge - East Ramp														
KLH.3590	East Ramp - Planting	0%	34	34	20-Nov-18	31-Dec-18	450							
KLH Bridge - Ramp R1														
Z2.KLH.3610	Ramp R1 - Steel roof	98.13%	10	534	19-Jan-17 A	30-Nov-18	121							
KLH Bridge - Ramp R2														
Z2.KLH.1550	Ramp R2 - Steel roof	97.96%	10	490	14-Mar-17 A	30-Nov-18	121							
KLH Bridge - Staircase S1														
Z2.KLH.1464	S1 - Steel work prefabrication	6.67%	28	30	15-Nov-18 A	17-Dec-18	-11							
Z2.KLH.1466	S1 - Steel frame available on site	0%	0	0		17-Dec-18	-9							
Z2.KLH.1470	NB60-5 post installation completed for S1	0%	0	0	12-Feb-19		-52							
Z2.KLH.1480	S1- Deck Steel Frame erection	0%	30	30	12-Feb-19	18-Mar-19	-52							
Bridge Road Work														
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Nov-18	15-Apr-19	11							
Lift at TWSR-W Side														
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	24-Nov-18*	24-Nov-18	0							
L01100	Lift installation	0%	70	70	01-Dec-18*	26-Feb-19	0							
L01130	Finishes work	0%	88	88	24-Nov-18	12-Mar-19	39							
Lift at FLHY S/B														
L01260	Lift installation	40%	45	75	12-Sep-18 A	14-Jan-19	72							
L01270	Lift T&C	0%	14	14	15-Jan-19	28-Jan-19	87							
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	29-Jan-19	04-Feb-19	87							
L01290	Finishes work	3.23%	60	62	18-Oct-18 A	31-Jan-19	71							
L01310	Lift available - NF117-Lift 2	0%	0	0		04-Feb-19	68							
Signalized Junction														
Kau Lung Hang Vehicular Bridge														
KLH Bridge - West Ramp														
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	28-Jan-19*	05-Mar-19	-18							
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	24.44%	68	90	30-Oct-18 A	27-Jan-19	-21							
Noise Barrier Along Fanling Highway S/B														
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	30%	4	5	20-Oct-18 A	23-Nov-18	128							
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)														
Bridge Construction														
New Ho Ka Yuen Footbridge														
TWSR-West/ FL Highway N/B Side Section														
HKY1440	Remaining Finishes works of HKYFB	98.42%	9	570	21-Nov-16 A	29-Nov-18	109							
HKY1520	VO11 - slope improvement work	0%	45	45	30-Nov-18	24-Jan-19	109							
TWSR-East FL Highway S/B Side Section														
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	92.24%	50	644	13-Oct-16 A	19-Jan-19	113							
ZONE 4 (Ch. 7925 to 8700)														

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
								Nov		Dec		Jan		Feb
Noise Barrier Along TWSR-West and Laying New Utilities														
Underground Utility Works														
DN450 DI Watermain "A" (Ch 1989-2529)														
DI0190	DN450 DI watermain laying (450-500m)	0%	30	30	20-Nov-18	24-Dec-18	53							
DI0200	DN450 DI watermain laying (500-540m)	0%	30	30	27-Dec-18	31-Jan-19	53							
Noise Barrier Along Fanling Highway N/B														
NB75 (Ch.7930-8090)-FH N/B Side														
Noise Barrier Works														
NB4275	NB75 - NB panel installation	0%	20	20	20-Nov-18	12-Dec-18	23							
NB4280	NB75 complete	0%	0	0		12-Dec-18	23							
NB77 (Ch.8090-8450)-FH N/B Side														
Noise Barrier Works														
NB4330	NB77 - NB production (Ch8090-8190)	28.89%	32	45	21-Nov-18 A	21-Dec-18	0							
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	0%	15	15	22-Dec-18	11-Jan-19	0							
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	0%	15	15	20-Nov-18	06-Dec-18	28							
NB4440	NB77 - backfilling (Ch8290-8390)	35%	13	20	13-Nov-18 A	04-Dec-18	0							
NB4450	NB77 - NB production (Ch8290-8390)	89.47%	20	190	03-May-18 A	09-Dec-18	12							
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	0%	15	15	10-Dec-18	28-Dec-18	11							
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	61.54%	10	26	15-Oct-18 A	30-Nov-18	6							
NB4500	NB77 - backfilling (Ch8390-8450)	0%	13	12	20-Nov-18 A	04-Dec-18	0							
NB4510	NB77 - NB production (Ch8390-8450)	0%	30	30	01-Dec-18	30-Dec-18	7							
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	0%	5	5	31-Dec-18	05-Jan-19	5							
NB4530	NB77 complete	0%	0	0		11-Jan-19	0							
NB4570	NB77 backfilling complete	0%	0	0		04-Dec-18	0							
NB4590	1650 Drainage Lining installation	0%	90	90	28-Dec-18	16-Apr-19	42							
Bridge Construction														
New Wo Hop Shek Pedstrian & Cycle Bridge														
TWSR-West/ FL Highway N/B Side Section														
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	27-Dec-18	20-Feb-19	58							
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	20-Nov-18 A	20-Dec-18	106							
WHS1420	Ramp Finishes Work	73.21%	30	112	13-Jul-18 A	24-Dec-18	58							
TWSR-West Construction														
Drainage & Road Works														
TWSR-West/ FL Highway N/B Side Section														
RDZ41180	TWSR -W Road Works rectification	0%	50	50	01-Feb-19	02-Apr-19	53							
Slip Road Y Construction														
Drainage & Road Works														
TWSR-East FL Highway S/B Side Section														
RDZ41088	Gazetial period for Slip Road Y commissioning	0%	183	183	17-Dec-18	17-Jun-19	-25							
Fanling Highway Construction														
Drainage & Road Works														
TWSR-West/ FL Highway N/B Side Section														
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	92.86%	5	70	20-Aug-18 A	24-Nov-18	8							
RDZ41109	TTA Lane 4 (at NBZ2) with Chun Wo	0%	0	0		24-Nov-18	8							
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	0%	18	18	05-Dec-18	27-Dec-18	0							
RDZ41112	Construct FH N/B Lane 2 (Ch8100-8600)	0%	18	18	28-Dec-18	18-Jan-19	0							
RDZ41114	Construct FH N/B Lane 3 (Ch8100-8600)	0%	18	18	19-Jan-19	11-Feb-19	0							
RDZ41119	Construct FH N/B lane 4 (Ch8100-8600)	0%	18	18	12-Feb-19	04-Mar-19	0							
TWSR-East FL Highway S/B Side Section														
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	98.24%	3	170	27-Mar-18 A	22-Nov-18	82							
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	98.24%	3	170	27-Mar-18 A	22-Nov-18	82							
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	0%	60	60	02-Jan-19	14-Mar-19	15							
RDZ41170	Complete Slip road V and associated slope work	0%	120	120	12-Jan-19	10-Jun-19	0							
Other Works														
Retaining Wall W78														
TWSR-East FL Highway S/B Side Section														
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	78.31%	18	83	01-Sep-18 A	10-Dec-18	-4							
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	65.66%	34	99	01-Sep-18 A	31-Dec-18	-20							
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	0%	30	30	02-Jan-19	07-Feb-19	-20							
Slope Works														
TWSR-East FL Highway S/B Side Section														
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Nov-18	08-Jan-19	87							
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Nov-18	08-Jan-19	87							
S1060	Slope S55-Fill ~10m	0%	30	30	08-Feb-19	14-Mar-19	-20							
TCSS Works														
TCSS Pre-Construction Works														
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Nov-18	20-Nov-18	484							
TCSS0230	Sign Gantry Factory production - G34 (Z4)	33.33%	20	30	02-Nov-18 A	12-Dec-18	3							
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	30	30	11-Dec-18	17-Jan-19	3							
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	0%	30	30	16-Jan-19	21-Feb-19	3							
Civil Provision for TCSS Works														
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	05-Dec-18	11-Jan-19	30							
TCSS2220	Pillar box, isolator & associated duct work - PL252 for G52	0%	30	30	12-Jan-19	18-Feb-19	30							
TCSS2230	Pillar box, isolator & associated duct work - PL251 for G51 & FL01	0%	30	30	19-Feb-19	25-Mar-19	30							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019	
								Nov		Dec		Jan	Feb
TCSS1780	TTA application & Approval - G34 (Z4)	93.66%	9	142	20-Jun-18 A	29-Nov-18	14						
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	28	28	13-Dec-18	17-Jan-19	3						
G35													
TCSS1800	TTA application & Approval - G35 (Z4)	0%	90	90	11-Jan-19	03-May-19	3						
G36													
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		10-Dec-18	3						
TCSS1820	TTA application & Approval - G36 (Z4)	55.32%	42	94	20-Sep-18 A	10-Jan-19	9						
TCSS1830	Sign Gantry Erection - G36 (Z4)	0%	28	28	18-Jan-19	21-Feb-19	3						
DS50													
TCSS1840	TTA application & Approval - DS50 (Z4)	23.33%	69	90	02-Nov-18 A	13-Feb-19	10						
FADS8													
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-Nov-18	24-Dec-18	77						
TCSS1860	TTA application & Approval - FADS8 (Z4)	0%	90	90	06-Dec-18	26-Mar-19	3						
TCSS Hub Room													
TCSS1900	TCSS Hub Room Structure	0%	45	45	20-Nov-18	14-Jan-19	28						
TCSS1910	TCSS Hub Room Finishes	0%	45	45	15-Jan-19	09-Mar-19	28						

10-Dec-18 ♦ latest date for Slow lane footing available - G36 (NB by other)

**CONSTRUCTION PROGRAMME OF
DECEMBER 2018**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018		2019		
								Dec	Jan	Feb	Mar	
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		01-Feb-19	94				01-Feb-19	Zone 1 - Noise Barrier at FH N/B complete
NB43B (Ch.5640-5880)-FH N/B Side												
Noise Barrier Works												
NB01216	NB43B-0 - Structure works of additional bay between tolo 2 & 3 -	86.36%	9	66	11-Sep-18 A	02-Jan-19	89					
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	03-Jan-19	01-Feb-19	89					
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	02-Feb-19	09-Feb-19	89					
NB01300	NB43B-2 - NB post & panel installation	72.22%	5	18	05-Nov-18 A	27-Dec-18	124					
NB01350	NB43B-3 - NB post & panel installation	68.75%	5	16	07-Nov-18 A	27-Dec-18	124					
TWSR-West Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	59.16%	78	191	07-Aug-18 A	26-Mar-19	51					
Fanling Highway Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ11030	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	56.25%	7	16	03-Dec-18 A	29-Dec-18	2					
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	16	16	31-Dec-18	18-Jan-19	2					
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	0%	52	52	19-Jan-19	22-Mar-19	2					
Other Works												
Landscape Softwork												
Landscape Works												
Z1.LW.1000	Landscape soft work Zone1	8.67%	137	150	08-Dec-18 A	10-Jun-19	0					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	66.52%	154	460	20-Nov-17 A	29-Jun-19	-79					
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	90.49%	35	368	05-Oct-17 A	01-Feb-19	94					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20210	Zone 2 - Noise Barrier at FH N/B structure work complete	0%	0	0		31-Jan-19	28				31-Jan-19	Zone 2 - Noise Barrier at FH N/B structure
NB43A (Ch.5880-6060)-FH N/B Side												
Noise Barrier Works												
NB001120	NB43A - ID1-2 NB production	85.85%	15	106	20-Sep-18 A	03-Jan-19	168					
NB001130	NB43A - ID1-2 NB post & panel installation	0%	5	5	04-Jan-19	09-Jan-19	136					
NB01550	NB43A-1 - NB post & panel installation	0%	5	5	20-Dec-18	27-Dec-18	146					
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	96.55%	7	203	03-Apr-18 A	29-Dec-18	20					
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	60%	24	60	08-Oct-18 A	19-Jan-19	3					
NB01576	NB43A-2 (86.8-166.7m) - Drainage Works (VO on 14-6-18 - add 1	0%	6	6	21-Jan-19	26-Jan-19	3					
NB01580	NB43A-2 - backfilling	0%	12	12	07-Feb-19	20-Feb-19	26					
NB01590	NB43A-2 - NB production	78.83%	29	137	04-Aug-18 A	17-Jan-19	154					
NB01600	NB43A-2 - NB post & panel installation	0%	5	5	14-Mar-19	19-Mar-19	79					
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	31-Dec-18	04-Feb-19	26					
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	07-Feb-19	13-Mar-19	79					
NB50 (Ch.6060-6130)-FH N/B Side												
Noise Barrier Works												
NB001170	NB50 -Footing & Wall Structure	73.08%	7	26	07-Nov-18 A	29-Dec-18	26					
NB001175	NB50 - Drainage Works	0%	24	24	28-Jan-19	26-Feb-19	3					
NB001180	NB50 -backfilling	0%	12	12	06-Mar-19	19-Mar-19	3					
NB001190	NB50 -NB production	0%	45	45	29-Dec-18	12-Feb-19	128					
NB17571	NB50 - Drainage Works (VO on 14-6-18 - add 1 manhole)	0%	6	6	27-Feb-19	05-Mar-19	3					
NB50A (Ch.6130-6450)-FH N/B Side												
Noise Barrier Works												
NB001240	NB50A - ID2-2 Footing & Wall Structure	52%	24	50	20-Nov-18 A	19-Jan-19	-63					
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	21-Jan-19	12-Feb-19	-63					
NB001250	NB50A - ID2-2 backfilling	0%	12	12	13-Feb-19	26-Feb-19	21					
NB001260	NB50A - ID2-2 NB production	0%	45	45	19-Jan-19	05-Mar-19	107					
NB001270	NB50A - ID2-2 NB post & panel installation	0%	5	5	05-Mar-19	11-Mar-19	86					
NB01620	NB50A(0-108m) - Footing & Wall Structure	49.09%	28	55	26-Nov-18 A	24-Jan-19	19					
NB01640	NB50A-1 - NB production	0%	45	45	25-Jan-19	10-Mar-19	102					
NB01670	NB50A (132-228m) - Footing & Wall Structure	38.18%	34	55	26-Nov-18 A	31-Jan-19	-55					
NB01675	NB50A (132-228m) - Drainage Works (VO on 14-6-18 - remain 2	0%	12	12	13-Feb-19	26-Feb-19	-63					
NB01676	NB50A (132-228m) - Drainage Works (VO on 14-6-18 - add 7	0%	56	56	27-Feb-19	08-May-19	-63					
NB01690	NB50A-2 - NB production	0%	45	45	01-Feb-19	17-Mar-19	95					

	Project ID:WP Rev 07 (1812)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Dec-18)</p>		Date	Revision	C. A...
	Layout: 3 Month Rolling Program			08-Nov-16	WP Rev 4	
Page 1 of 6				17-Aug-17	WP Rev 5	
				28-Mar-18	WP Rev 6	
				27-Nov-18	WP Rev 6A	
				03-Dec-18	WP Rev 7	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019											
								Dec				Jan				Feb				Mar			
NB01709	CLP occupied by CLPP for duct laying	0%	8	5	12-Dec-18 A	31-Dec-18	-33																
NB01710	NB50A (225-311m) - Sheet piling & Excavation (S4-S5)	0%	12	12	02-Jan-19	15-Jan-19	-33																
NB01720	NB50A-3 - Footing & Wall Structure (S4-S5)	0%	12	12	09-Jan-19	22-Jan-19	-33																
NB01725	NB50A (225-311m) - Drainage Works (VO on 14-6-18 - delete 1	0%	12	12	23-Jan-19	07-Feb-19	-33																
NB01726	NB50A (225-311m) - Drainage Works (VO on 14-6-18 - add 7	0%	56	56	08-Feb-19	15-Apr-19	-33																
NB01740	NB50A-3 - NB production	0%	45	45	23-Jan-19	08-Mar-19	104																
NB60 (Ch.6450-6920)-FH N/B Side																							
Noise Barrier Works																							
NB01810	NB60-1 - NB production	26.67%	33	45	08-Dec-18 A	21-Jan-19	150																
NB01865	NB60-2 (108-174m) - Drainage Works	8.33%	22	24	17-Dec-18 A	17-Jan-19	11																
NB01866	NB60-2 (108-174m) - Drainage Works (VO on 16-10-18 - add 2	0%	12	12	18-Jan-19	31-Jan-19	11																
NB01870	NB60-2 - backfilling	0%	12	12	01-Feb-19	16-Feb-19	29																
NB01880	NB60-2 - NB production	66.67%	15	45	20-Nov-18 A	03-Jan-19	168																
NB01890	NB60-2 - NB post & panel installation	0%	5	5	18-Feb-19	22-Feb-19	100																
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	01-Feb-19	23-Feb-19	11																
NB01940	NB60-ID3-2 - backfilling	0%	12	12	25-Feb-19	09-Mar-19	11																
NB01950	NB60-ID3-2 - NB production	66.67%	15	45	20-Nov-18 A	03-Jan-19	168																
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	11-Mar-19	15-Mar-19	82																
NB02005	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - remain 1	0%	6	6	20-Dec-18	28-Dec-18	-79																
NB02006	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - add 11	0%	88	88	29-Dec-18	15-Apr-19	-79																
NB02020	NB60-3 - NB production	51.11%	22	45	26-Nov-18 A	10-Jan-19	161																
NB02022	NB60-3 - NB post & panel installation	0%	5	5	11-Jan-19	16-Jan-19	130																
Underground Utility Works																							
Underground Utility Works																							
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	64.47%	70	197	15-Aug-18 A	27-Feb-19	22																
UU0110	Towing duct laying and associated work before backfill in Zone 1 & 2	75.31%	80	324	20-Apr-18 A	09-Mar-19	18																
Bridge Construction																							
New Tai Hang Footbridge																							
TWSR-West/ FL Highway N/B Side Section																							
THBF0620	Finishes Work	97.34%	14	527	27-Feb-17 A	08-Jan-19	137																
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		08-Jan-19	137																
Crossing Fanling Highway Section																							
THBF0590	Finishes Work	94.07%	8	135	20-Jun-18 A	31-Dec-18	143																
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		31-Dec-18	143																
TWSR-East FL Highway S/B Side Section																							
THBF0470	THAB1 - pile cap & abutment wall	92.88%	45	632	21-Nov-16 A	15-Feb-19	26																
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	16-Feb-19	11-Mar-19	26																
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	12-Mar-19	16-Apr-19	26																
THBF0800	ABWF work	0%	30	30	20-Dec-18	26-Jan-19	121																
Lift at TWSR-W Side																							
L1560	Lift installation (NF115)	42.86%	44	77	12-Nov-18 A	14-Feb-19	70																
L1570	Lift T&C	0%	14	14	15-Feb-19	02-Mar-19	70																
L1580	EMSD inspection & approval	0%	28	28	02-Mar-19	30-Mar-19	88																
L1590	E&M and Finishes work	0%	120	120	20-Dec-18	20-May-19	31																
Lift at FLHY S/B																							
L1380	Structural Laminated glass wall installation	33.33%	20	30	15-Dec-18 A	15-Jan-19	-10																
L1400	Roof cover for RC Platform	0%	30	30	20-Dec-18	26-Jan-19	-20																
L1410	Lift installation (NF78)	0%	70	70	28-Jan-19	25-Apr-19	-20																
L1440	E&M and Finishes work	0%	100	100	28-Jan-19	31-May-19	-19																
L1450	CLP Power available (by CLP)	96.6%	31	913	21-Jun-16 A	19-Jan-19	68																
New Tai Wo Footbridge																							
TWSR-West/ FL Highway N/B Side Section																							
TWFB1390	Finishes Work	88.38%	56	482	20-May-17 A	28-Feb-19	81																
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		28-Feb-19	81																
Crossing Fanling Highway Section																							
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	20-Dec-18	15-Feb-19	18																
TWFB1447	Erect TWFB across TWSR-W (P1 to P2)	0%	12	12	16-Feb-19	01-Mar-19	18																
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	28-Jan-19	05-Mar-19	3																
TWFB1450	Erect TWFB across fanling highway	0%	12	12	06-Mar-19	19-Mar-19	3																
TWSR-East FL Highway S/B Side Section																							
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	33.33%	60	90	15-Oct-18 A	05-Mar-19	3																
Lift at TWSR-W Side																							
L1700	Metal cover on RC platform	0%	30	30	20-Dec-18	26-Jan-19	-13																
L1710	Glass canopy on ground level	0%	30	30	28-Jan-19	05-Mar-19	543																
L1740	Lift installation	0%	70	70	28-Jan-19	25-Apr-19	0																
L1770	E&M and Finishes work	0%	120	120	28-Jan-19	25-Jun-19	-13																
Signalized Junction																							
New Tai Hang Footbridge																							
TWSR-West/ FL Highway N/B Side Section																							
THBF0650	Ducting & Cable Draw Installation (Tai hang Junction)	0%	30	30	18-Feb-19	23-Mar-19	12																
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	33.33%	60	90	20-Nov-18 A	17-Feb-19	14																
Noise Barrier Along Fanling Highway S/B																							
NB51 (Ch.5935-6055)-FH S/B Side																							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019						
								Dec		Jan		Feb		Mar				
								1	2	1	2	1	2	1	2			
PL01030	Footing	0%	12	12	07-Jan-19	19-Jan-19	1											
PL01040	backfill	0%	6	6	21-Jan-19	26-Jan-19	1											
PL01050	Pai Lau Superstructure	0%	65	65	29-Jan-19	17-Apr-19	0											
PL01060	Material submission for finishes works	65%	21	60	05-Nov-18 A	16-Jan-19	0											
PL01070	Material submission approval	0%	30	30	17-Jan-19	22-Feb-19	0											
PL01080	Material Order & delivery on site	0%	45	45	23-Feb-19	17-Apr-19	0											
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)																		
Noise Barrier Along TWSR-West and Laying New Utilities																		
NB64 & NB64A (Ch.6860-6920)-TWSR West Side																		
Noise Barrier Works																		
NB003350	Bus Shelter footing & shelter near NB64 - VO86	79.06%	40	191	21-May-18 A	09-Feb-19	111											
Noise Barrier Along Fanling Highway N/B																		
NB60 (Ch.6450-6920)-FH N/B Side																		
Noise Barrier Works																		
NB02065	NB60-4 (300-408m) - Drainage Works	0%	24	24	11-Jan-19	09-Feb-19	-19											
NB02066	NB60-4 (300-408m) - Drainage Works (VO on 16-10-18 - add 3	0%	18	18	11-Feb-19	02-Mar-19	-19											
NB02070	NB60-4 - backfilling	0%	20	20	04-Mar-19	26-Mar-19	-3											
NB02080	NB60-4 - NB production	20%	36	45	11-Dec-18 A	24-Jan-19	147											
NB02082	NB60-4 - NB post & panel installation	0%	5	5	25-Jan-19	30-Jan-19	118											
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	04-Mar-19	30-Mar-19	-19											
NB02140	NB60-5 - NB production	0%	26	26	20-Dec-18 A	14-Jan-19	13											
NB02142	NB60-5 - NB post & panel installation	0%	5	5	15-Jan-19	19-Jan-19	11											
NB66 (Ch.6920-6930)-FH N/B Side																		
Noise Barrier Works																		
NB02165	NB66 - Drainage Works	91.01%	16	178	08-May-18 A	10-Jan-19	-19											
NB02170	NB66- backfilling	0%	15	15	11-Jan-19	28-Jan-19	44											
NB02180	NB66 - NB production	66.67%	15	45	20-Nov-18 A	03-Jan-19	168											
NB02190	NB66 - NB post & panel installation	0%	5	5	29-Jan-19	02-Feb-19	115											
Bridge Construction																		
Kau Lung Hang Vehicular Bridge																		
KLH Bridge - West Ramp																		
KLH.1290	West Ramp - Planting	0%	21	21	20-Dec-18	16-Jan-19	130											
KLH Bridge - Deck 1																		
KLH.3430	Deck 1 - Planting	0%	21	21	20-Dec-18	16-Jan-19	130											
KLH Bridge - Deck 3																		
KLH.3500	Deck 3 - Planting	0%	21	21	20-Dec-18	16-Jan-19	116											
KLH Bridge - East Ramp																		
KLH.3590	East Ramp - Planting	0%	34	34	20-Dec-18	31-Jan-19	569											
KLH Bridge - Ramp R2																		
Z2.KLH.1550	Ramp R2 - Steel roof	98.04%	10	510	14-Mar-17 A	03-Jan-19	141											
KLH Bridge - Staircase S1																		
Z2.KLH.1464	S1 - Steel work prefabrication	15.15%	28	33	15-Nov-18 A	16-Jan-19	16											
Z2.KLH.1466	S1 - Steel frame available on site	0%	0	0		16-Jan-19	14											
Z2.KLH.1470	NB60-5 post installation completed for S1	0%	0	0	21-Jan-19		11											
Z2.KLH.1480	S1- Deck Steel Frame erection	0%	30	30	21-Jan-19	26-Feb-19	11											
Z2.KLH.1490	S1- RC deck slab	0%	20	20	27-Feb-19	21-Mar-19	11											
Bridge Road Work																		
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Dec-18	20-May-19	31											
Lift at TWSR-W Side																		
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Dec-18*	20-Dec-18	-22											
L01100	Lift installation	0%	70	70	20-Dec-18*	16-Mar-19	-16											
L01110	Lift T&C	0%	14	14	18-Mar-19	02-Apr-19	61											
L01130	Finishes work	0%	88	88	20-Dec-18	08-Apr-19	63											
Lift at FLHY S/B																		
L01270	Lift T&C	0%	14	14	18-Dec-18 A	02-Jan-19	168											
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	03-Jan-19	09-Jan-19	168											
L01290	Finishes work	61.36%	34	88	18-Oct-18 A	31-Jan-19	117											
L01310	Lift available - NF117-Lift 2	0%	0	0		31-Jan-19	117											
Signalized Junction																		
Kau Lung Hang Vehicular Bridge																		
KLH Bridge - West Ramp																		
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	28-Jan-19*	05-Mar-19	0											
Z2.KLH.1052	Installation of Traffic Signal Poles at TWSR-W S/B (KLHVB)	0%	21	21	06-Mar-19	29-Mar-19	28											
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	57.78%	38	90	30-Oct-18 A	27-Jan-19	0											
Z2.KLH.1072	Ducting & cable draw inspection by EMSD (KLHVB)	0%	6	6	06-Mar-19	12-Mar-19	61											
Z2.KLH.1082	Ducting & cable draw rectification (KLHVB)	0%	12	12	13-Mar-19	26-Mar-19	61											
Noise Barrier Along Fanling Highway S/B																		
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)																		
Noise Barrier Works																		
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	88.14%	4	30	20-Oct-18 A	24-Dec-18	148											
Fanling Highway Construction																		
Drainage & Road Works																		
Ch 6740-6930																		
RDZ20520	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 1)	0%	24	24	06-Mar-19	02-Apr-19	67											
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)																		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019		
												Dec	Jan	Feb
Bridge Construction														
New Ho Ka Yuen Footbridge														
TWSR-West/ FL Highway N/B Side Section														
HKY1440	Remaining Finishes works of HKYFB	98.49%	9	596	21-Nov-16 A	02-Jan-19	83							
HKY1520	VO11 - slope improvement work	0%	45	45	03-Jan-19	26-Feb-19	83							
TWSR-East FL Highway S/B Side Section														
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	96.27%	25	670	13-Oct-16 A	21-Jan-19	112							
ZONE 4 (Ch. 7925 to 8700)														
Noise Barrier Along TWSR-West and Laying New Utilities														
Underground Utility Works														
DN450 DI Watermain "A" (Ch 1989-2529)														
DI0190	DN450 DI watermain laying (450-500m)	86.67%	4	30	21-Nov-18 A	24-Dec-18	53							
DI0200	DN450 DI watermain laying (500-540m)	0%	30	30	27-Dec-18	31-Jan-19	53							
Noise Barrier Along Fanling Highway N/B														
NB75 (Ch.7930-8090)-FH N/B Side														
Noise Barrier Works														
NB4275	NB75 - NB panel installation	15%	17	20	20-Nov-18 A	11-Jan-19	0							
NB4280	NB75 complete	0%	0	0		11-Jan-19	0							
NB77 (Ch.8090-8450)-FH N/B Side														
Noise Barrier Works														
NB4510	NB77 - NB production (Ch8390-8450)	70%	9	30	01-Dec-18 A	28-Dec-18	9							
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	0%	5	5	29-Dec-18	04-Jan-19	6							
NB4530	NB77 complete	0%	0	0		04-Jan-19	6							
NB4570	NB77 backfilling complete	0%	0	0		20-Dec-18	5							
Bridge Construction														
New Wo Hop Shek Pedstrian & Cycle Bridge														
TWSR-West/ FL Highway N/B Side Section														
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	20-Dec-18 A	15-Feb-19	62							
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0%	0	0		15-Feb-19	62							
WHS1290	Erect Staircase (WHS-TWSR-W side)	0%	30	30	16-Feb-19	22-Mar-19	62							
WHS1420	Ramp Finishes Work	78.26%	30	138	13-Jul-18 A	26-Jan-19	107							
TWSR-West Construction														
Drainage & Road Works														
TWSR-West/ FL Highway N/B Side Section														
RDZ41180	TWSR -W Road Works rectification	0%	50	50	01-Feb-19	02-Apr-19	53							
Slip Road Y Construction														
Drainage & Road Works														
TWSR-East FL Highway S/B Side Section														
RDZ41080	Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4)	0%	55	55	15-Mar-19	23-May-19	0							
RDZ41088	Gazettal period for Slip Road Y commissioning	17.49%	151	183	22-Nov-18 A	19-May-19	4							
Fanling Highway Construction														
Drainage & Road Works														
TWSR-West/ FL Highway N/B Side Section														
RDZ41112	Construct FH N/B Lane 2 (Ch8100-8600)	0%	18	18	20-Dec-18	12-Jan-19	5							
RDZ41114	Construct FH N/B Lane 3 (Ch8100-8600)	0%	18	18	14-Jan-19	02-Feb-19	5							
RDZ41119	Construct FH N/B lane 4 (Ch8100-8600)	0%	18	18	04-Feb-19	26-Feb-19	5							
TWSR-East FL Highway S/B Side Section														
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	0%	60	60	31-Dec-18	13-Mar-19	16							
RDZ41140	Fanling Highway road work complete (except final pavement)	0%	0	0		26-Feb-19	5							
RDZ41150	Central Divider construction	0%	24	24	27-Feb-19	26-Mar-19	5							
RDZ41170	Complete Slip road V and associated slope work	0%	120	120	12-Jan-19	10-Jun-19	0							
Other Works														
Retaining Wall W78														
TWSR-East FL Highway S/B Side Section														
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	78.31%	18	83	01-Sep-18 A	12-Jan-19	0							
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	92.93%	7	99	01-Sep-18 A	29-Dec-18	11							
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	0%	20	20	14-Jan-19	07-Feb-19	0							
Slope Works														
TWSR-East FL Highway S/B Side Section														
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Dec-18	09-Feb-19	61							
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Dec-18	09-Feb-19	61							
S1060	Slope S55-Fill ~10m	0%	30	30	08-Feb-19	14-Mar-19	0							
TCSS Works														
TCSS Pre-Construction Works														
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Dec-18	20-Dec-18	603							
TCSS0230	Sign Gantry Factory production - G34 (Z4)	91.43%	3	35	02-Nov-18 A	22-Dec-18	-6							
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	30	30	21-Dec-18	28-Jan-19	-6							
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	0%	30	30	26-Jan-19	04-Mar-19	-6							
TCSS0270	Sign Gantry Factory production - FADS8 (Z4)	0%	30	30	02-Mar-19	06-Apr-19	-6							
Civil Provision for TCSS Works														
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	20-Dec-18	26-Jan-19	17							
TCSS2220	Pillar box, isolator & associated duct work - PL252 for G52	0%	30	30	28-Jan-19	05-Mar-19	17							
TCSS2230	Pillar box, isolator & associated duct work - PL251 for G51 & FL01	0%	30	30	06-Mar-19	10-Apr-19	17							
TCSS2250	FL01 mounted on top of DS53	0%	30	30	13-Mar-19	17-Apr-19	11							
G34														
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	28	28	24-Dec-18	28-Jan-19	-6							
G35														

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				2019											
								Dec				Jan				Feb				Mar			
TCSS1800	TTA application & Approval - G35 (Z4)	0%	90	90	22-Jan-19	14-May-19	-6																
G36																							
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		20-Dec-18	-6	20-Dec-18				◆ latest date for Slow lane footing available - G36 (NB by other)											
TCSS1820	TTA application & Approval - G36 (Z4)	82.42%	16	91	20-Sep-18 A	10-Jan-19	9																
TCSS1830	Sign Gantry Erection - G36 (Z4)	0%	28	28	29-Jan-19	04-Mar-19	-6																
DS50																							
TCSS1840	TTA application & Approval - DS50 (Z4)	48.81%	43	84	02-Nov-18 A	13-Feb-19	10																
TCSS1850	Sign Gantry Erection - DS50 (Z4)	0%	28	28	05-Mar-19	06-Apr-19	-6																
FADS8																							
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-Dec-18	26-Jan-19	51																
TCSS1860	TTA application & Approval - FADS8 (Z4)	13.33%	78	90	06-Dec-18 A	26-Mar-19	3																
TCSS Hub Room																							
TCSS1900	TCSS Hub Room Structure	0%	45	45	20-Dec-18	15-Feb-19	2																
TCSS1910	TCSS Hub Room Finishes	0%	45	45	16-Feb-19	10-Apr-19	2																
VO Relocation of Traffic Sign at Pak Wo Road																							
VO Relocation of Traffic Sign at Pak Wo Road																							
TS01000	VO issue date (Assumed)	0%	0	0	21-Dec-18*		0					◆ VO issue date (Assumed)											
TS01010	XP application period	0%	90	90	21-Dec-18	20-Mar-19	-64																
TS01020	STLA application period	0%	144	144	21-Dec-18	13-May-19	-118																
TS01030	TTA submission & approval	0%	30	30	21-Dec-18	28-Jan-19	-11																

**CONSTRUCTION PROGRAMME OF
JANUARY 2019**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019				
								Jan	Feb	Mar	Apr	
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		30-Mar-19	47					30-Mar-19 ◆ Zone 1 - Noise B
NB43B (Ch.5640-5880)-FH N/B Side												
Noise Barrier Works												
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	01-Mar-19*	30-Mar-19	42					
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	01-Apr-19	06-Apr-19	42					
NB01300	NB43B-2 - NB post & panel installation	88.64%	5	44	05-Nov-18 A	25-Jan-19	100					
NB01350	NB43B-3 - NB post & panel installation	88.1%	5	42	07-Nov-18 A	25-Jan-19	100					
TWSR-West Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	71.73%	54	191	07-Aug-18 A	26-Mar-19	51					
Fanling Highway Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - road works (lane 4)	0%	28	16	30-Dec-18 A	23-Feb-19	25					
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - road works (lane 4)	32.69%	35	52	30-Dec-18 A	04-Mar-19	18					
RDZ11060	Z1 (Ch5640-5880) : Fanling Highway S/B - road works (lane 3)	0%	16	16	05-Mar-19	22-Mar-19	18					
RDZ11070	Z1 (Ch5640-5880) : Fanling Highway S/B - road works (lane 2)	0%	16	16	23-Mar-19	11-Apr-19	18					
RDZ11080	Z1 (Ch5640-5880) : Fanling Highway S/B - road works (lane 1)	0%	20	20	12-Apr-19	09-May-19	18					
Other Works												
Landscape Softwork												
Landscape Works												
Z1.LW.1000	Landscape soft work Zone1	23.13%	113	147	08-Dec-18 A	10-Jun-19	0					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	72.69%	130	476	20-Nov-17 A	29-Jun-19	-79					
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	85.28%	58	394	05-Oct-17 A	30-Mar-19	47					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20210	Zone 2 - Noise Barrier at FH N/B structure work complete	0%	0	0		31-Jan-19	28					31-Jan-19 ◆ Zone 2 - Noise Barrier at FH N/B structure work complete
NB43A (Ch.5880-6060)-FH N/B Side												
Noise Barrier Works												
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	94.19%	5	86	08-Oct-18 A	25-Jan-19	-2					
NB01576	NB43A-2 (86.8-166.7m) - Drainage Works (VO on 14-6-18 - add 1	0%	6	6	26-Jan-19	01-Feb-19	-2					
NB01580	NB43A-2 - backfilling	0%	12	12	02-Feb-19	18-Feb-19	28					
NB01590	NB43A-2 - NB production	82.63%	29	167	04-Aug-18 A	17-Feb-19	123					
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	01-Mar-19*	04-Apr-19	30					
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	06-Apr-19	15-May-19	30					
NB50 (Ch.6060-6130)-FH N/B Side												
Noise Barrier Works												
NB001175	NB50 - Drainage Works	0%	24	24	02-Feb-19	04-Mar-19	-2					
NB001180	NB50 -backfilling	0%	12	12	12-Mar-19	25-Mar-19	-2					
NB001190	NB50 -NB production	46.67%	24	45	29-Dec-18 A	12-Feb-19	128					
NB001200	NB50 -NB post & panel installation	0%	5	5	26-Mar-19	30-Mar-19	69					
NB17571	NB50 - Drainage Works (VO on 14-6-18 - add 1 manhole)	0%	6	6	05-Mar-19	11-Mar-19	-2					
NB50A (Ch.6130-6450)-FH N/B Side												
Noise Barrier Works												
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	21-Jan-19 A	12-Feb-19	-63					
NB001250	NB50A - ID2-2 backfilling	0%	12	12	13-Feb-19	26-Feb-19	21					
NB001260	NB50A - ID2-2 NB production	0%	45	45	20-Jan-19 A	05-Mar-19	107					
NB001270	NB50A - ID2-2 NB post & panel installation	0%	5	5	06-Mar-19	11-Mar-19	86					
NB01640	NB50A-1 - NB production	0%	45	45	20-Jan-19	05-Mar-19	107					
NB01670	NB50A (132-228m) - Footing & Wall Structure	81.82%	10	55	26-Nov-18 A	31-Jan-19	-55					
NB01675	NB50A (132-228m) - Drainage Works (VO on 14-6-18 - remain 2	0%	12	12	13-Feb-19	26-Feb-19	-63					
NB01676	NB50A (132-228m) - Drainage Works (VO on 14-6-18 - add 7	0%	56	56	27-Feb-19	08-May-19	-63					
NB01690	NB50A-2 - NB production	0%	45	45	01-Feb-19	17-Mar-19	95					
NB01720	NB50A-3 - Footing & Wall Structure (S4-S5)	16.67%	10	12	09-Jan-19 A	31-Jan-19	-33					
NB01725	NB50A (225-311m) - Drainage Works (VO on 14-6-18 - delete 1	0%	12	12	01-Feb-19	16-Feb-19	-33					
NB01726	NB50A (225-311m) - Drainage Works (VO on 14-6-18 - add 7	0%	56	56	18-Feb-19	27-Apr-19	-33					
NB01740	NB50A-3 - NB production	0%	45	45	01-Feb-19	17-Mar-19	95					
NB60 (Ch.6450-6920)-FH N/B Side												
Noise Barrier Works												
NB01795	NB60-1 (15-108m) - Drainage Works	0%	24	24	16-Apr-19	17-May-19	-79					

	Project ID: WP Rev 07 (1901)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Jan-19)		Date	Revision	C/A...
	Layout: 3 Month Rolling Program			08-Nov-16	WP Rev 4	
	Page 1 of 6			17-Aug-17	WP Rev 5	
				28-Mar-18	WP Rev 6	
				27-Nov-18	WP Rev 6A	
				15-Jan-19	WP Rev 7	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019					
								2018	Jan	Feb	Mar	Apr	
NB01810	NB60-1 - NB production	95.56%	2	45	08-Dec-18 A	21-Jan-19	150						
NB01865	NB60-2 (108-174m) - Drainage Works	60%	10	25	17-Dec-18 A	31-Jan-19	11						
NB01866	NB60-2 (108-174m) - Drainage Works (VO on 16-10-18 - add 2	16.67%	10	12	18-Jan-19 A	31-Jan-19	11						
NB01870	NB60-2 - backfilling	0%	12	12	01-Feb-19	16-Feb-19	29						
NB01890	NB60-2 - NB post & panel installation	0%	5	5	18-Feb-19	22-Feb-19	100						
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	01-Feb-19	23-Feb-19	11						
NB01940	NB60-ID3-2 - backfilling	0%	12	12	25-Feb-19	09-Mar-19	11						
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	11-Mar-19	15-Mar-19	82						
NB02006	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - add 11	20.45%	70	88	29-Dec-18 A	15-Apr-19	-79						
NB02010	NB60-3 - backfilling	0%	12	12	16-Apr-19	03-May-19	-31						
NB02022	NB60-3 - NB post & panel installation	0%	5	5	21-Jan-19	25-Jan-19	122						
Underground Utility Works													
Underground Utility Works													
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	80.2%	39	197	15-Aug-18 A	27-Feb-19	22						
UU0110	Towgas duct laying and associated work before backfill in Zone 1 & 2	84.88%	49	324	20-Apr-18 A	09-Mar-19	18						
Bridge Construction													
New Tai Hang Footbridge													
TWSR-West/ FL Highway N/B Side Section													
THBF0620	Finishes Work	89.51%	58	553	27-Feb-17 A	30-Mar-19	69						
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		30-Mar-19	69						30-Mar-19 ◆ Bridge Structure
Crossing Fanling Highway Section													
THBF0590	Finishes Work	63.98%	58	161	20-Jun-18 A	30-Mar-19	69						
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		30-Mar-19	69						30-Mar-19 ◆ Bridge Structure
TWSR-East FL Highway S/B Side Section													
THBF0470	THAB1 - pile cap & abutment wall	95.14%	32	658	21-Nov-16 A	28-Feb-19	15						
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	01-Mar-19	23-Mar-19	15						
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	25-Mar-19	03-May-19	15						
THBF0800	ABWF work	0%	30	30	15-Feb-19*	21-Mar-19	77						
Lift at TWSR-W Side													
L1570	Lift T&C	28.57%	10	14	16-Jan-19 A	31-Jan-19	94						
L1580	EMSD inspection & approval	0%	28	28	01-Feb-19	28-Feb-19	118						
L1590	E&M and Finishes work	0%	120	120	21-Jan-19	18-Jun-19	7						
Lift at FLHY S/B													
L1380	Structural Laminated glass wall installation	0%	30	30	19-Jan-19 A	26-Feb-19	-8						
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	80%	10	50	20-Sep-18 A	31-Jan-19	-18						
L1400	Roof cover for RC Platform	0%	30	30	01-Feb-19	09-Mar-19	-18						
L1410	Lift installation (NF78)	0%	70	70	11-Mar-19	05-Jun-19	-18						
L1440	E&M and Finishes work	0%	100	100	11-Mar-19	12-Jul-19	-13						
L1450	CLP Power available (by CLP)	98.62%	13	943	21-Jun-16 A	01-Feb-19	103						
New Tai Wo Footbridge													
TWSR-West/ FL Highway N/B Side Section													
TWFB1390	Finishes Work	89.06%	58	530	20-May-17 A	30-Mar-19	55						
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		30-Mar-19	55						30-Mar-19 ◆ Bridge Structure
Crossing Fanling Highway Section													
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	21-Jan-19	15-Mar-19	0						
TWFB1447	Erect TWFB across TWSR-W (P1 to P2)	0%	12	12	16-Mar-19	29-Mar-19	12						
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	23-Feb-19	29-Mar-19	0						
TWFB1450	Erect TWFB across fanling highway	0%	12	12	30-Mar-19	13-Apr-19	0						
TWFB1460	Finishes Work	0%	18	18	15-Apr-19	09-May-19	0						
TWSR-East FL Highway S/B Side Section													
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	78.45%	25	116	15-Oct-18 A	20-Feb-19	20						
Lift at TWSR-W Side													
L1700	Metal cover on RC platform	0%	30	30	08-Mar-19*	12-Apr-19	8						
L1710	Glass canopy on ground level	0%	30	30	08-Mar-19	12-Apr-19	8						
L1740	Lift installation	0%	70	70	21-Jan-19	15-Apr-19	6						
L1750	Lift T&C	0%	14	14	16-Apr-19	06-May-19	6						
L1770	E&M and Finishes work	0%	120	120	21-Jan-19	18-Jun-19	-7						
Signalized Junction													
New Tai Hang Footbridge													
TWSR-West/ FL Highway N/B Side Section													
THBF0650	Ducting & Cable Draw Installation (Tai hang Junction)	0%	30	30	18-Feb-19	23-Mar-19	12						
THBF0660	Installation of Traffic Signal Poles at TWSR-W S/B (Tai hang Junction)	0%	21	21	25-Mar-19	18-Apr-19	12						
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	67.78%	29	90	20-Nov-18 A	17-Feb-19	14						
THBF0680	Ducting & cable draw inspection by EMSD (Tai hang Junction)	0%	6	6	25-Mar-19	30-Mar-19	51						
THBF0690	Ducting & cable draw rectification (Tai hang Junction)	0%	12	12	01-Apr-19	15-Apr-19	51						
Noise Barrier Along Fanling Highway S/B													
NB51 (Ch.5935-6055)-FH S/B Side													
Noise Barrier Works													
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB03360	NB51(bay 15) - Footing & Wall Structure & backfill	0%	35	35	01-Mar-19	11-Apr-19	55						
NB03370	NB51(bay 15) - NB post & panel installation	0%	5	5	12-Apr-19	17-Apr-19	55						
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019					
								2018	Jan	Feb	Mar	Apr	
NB03390	NB52 (bay 21) - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02460	NB53 (0-100m)- backfilling	48%	26	50	20-Dec-18 A	21-Feb-19	101						
NB02470	NB53 (0-100m) - NB production	68.89%	14	45	20-Dec-18 A	02-Feb-19	138						
NB02480	NB53 (0-100m) - NB post & panel installation	0%	5	5	04-Feb-19	11-Feb-19	110						
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	88.64%	10	88	18-Oct-18 A	31-Jan-19	62						
NB02530	NB53 ID2-3 (100-125m) - backfilling	0%	50	50	01-Feb-19	02-Apr-19	62						
NB02540	NB53 ID2-3 (100-125m) - NB production	0%	45	45	01-Feb-19	17-Mar-19	95						
NB02550	NB53 ID2-3 (100-125m) - NB post & panel installation	0%	5	5	03-Apr-19	09-Apr-19	62						
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02642	NB55 - Drainage Works	0%	18	18	23-Mar-19	13-Apr-19	22						
NB02644	NB55 - Drainage Works (VO on 14-6-18 - add 1 manhole)	0%	6	6	15-Apr-19	24-Apr-19	22						
NB02670	NB55 - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02712	NB56 - Drainage Works	0%	6	6	09-Apr-19	15-Apr-19	33						
NB02714	NB56 - Drainage Works (VO on 14-6-18 - add 4 manhole)	0%	24	24	16-Apr-19	17-May-19	33						
NB02740	NB56 - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02782	NB61 (0-50m) - Drainage Works	0%	12	12	04-Mar-19	16-Mar-19	33						
NB02784	NB61 (0-50m) - Drainage Works (VO on 14-6-18 - add 3 manhole)	0%	18	18	18-Mar-19	08-Apr-19	33						
NB02790	NB61 (0-50m)- backfilling	99.27%	2	274	20-Jan-18 A	22-Jan-19	125						
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB02832	NB61 (50-160m) - Drainage Works	37.5%	15	24	10-Jan-19 A	08-Feb-19	22						
NB02834	NB61 (50-160m) - Drainage Works (VO on 14-6-18 - add 6 manhole)	0%	36	36	09-Feb-19	22-Mar-19	22						
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	01-Mar-19*	06-Mar-19	90						
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02902	NB61A (0-50m) - Drainage Works	78.57%	9	42	12-Nov-18 A	30-Jan-19	570						
NB02904	NB61A (0-50m) - Drainage Works (VO on 16-10-18 - add 1 manhole)	0%	6	6	15-Jan-19 A	26-Jan-19	121						
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	21-Jan-19	25-Jan-19	122						
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	97.07%	33	1128	01-Apr-15 A	01-Mar-19	51						
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	02-Mar-19	25-Mar-19	69						
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	02-Mar-19	15-Apr-19	66						
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	16-Apr-19	24-Apr-19	52						
NB03022	NB61A (75-190m) - Drainage Works	81.48%	10	54	05-Nov-18 A	31-Jan-19	33						
NB03024	NB61A (75-190m) - Drainage Works (VO on 16-10-18 - add 4 manhole)	0%	24	24	01-Feb-19	02-Mar-19	33						
NB03050	NB61A (75-190m) - NB post & panel installation	97.44%	5	195	05-May-18 A	25-Jan-19	122						
Box Culvert ID3 Works													
VO58 Extension of ID3													
ID30130	Backfill	0%	20	20	29-Mar-19	25-Apr-19	-39						
ID30140	Wing Wall Construction	0%	40	40	11-Feb-19*	28-Mar-19	-39						
Other Works													
TCSS Works													
TCSS Pre-Construction Works													
TCSS0190	Sign Gantry Factory production - ADS1	0%	30	30	06-Apr-19	15-May-19	-28						
TCSS0200	Sign Gantry Factory production - FADS1	0%	30	30	15-Feb-19	21-Mar-19	-7						
TCSS0210	Sign Gantry Factory production - G55	0%	30	30	15-Feb-19*	21-Mar-19	-28						
AADS1													
TCSS1660	TTA application & Approval - AADS1	0%	90	90	19-Feb-19	10-Jun-19	-28						
FADS1													
TCSS2060	Sign Gantry Erection - FADS1	0%	21	21	17-Apr-19	15-May-19	-28						
G55													
TCSS1750	Sign Gantry Erection - G55	0%	21	21	22-Mar-19	16-Apr-19	-28						
Landscape Softwork													
Landscape Works													
Z2.LW.1000	Landscape soft work Zone2	0%	150	150	29-Mar-19	28-Sep-19	-48						
Pai Lau in Tai Hang (VO126)													
Pai Lau in Tai Hang (VO126)													
Pai Lau in Tai Hang (VO126)													
Pai Lau in Tai Hang (VO126)													
PL01000	Works area access date (14-Dec-2018)	0%	0	0	21-Jan-19*		-29						
PL01010	CLP relocation of Overhead Cable	0%	12	12	21-Jan-19*	02-Feb-19	1						
PL01020	Excavation	0%	12	12	21-Jan-19	02-Feb-19	-17						
PL01030	Footing	0%	12	12	04-Feb-19	19-Feb-19	-17						
PL01040	backfill	0%	6	6	20-Feb-19	26-Feb-19	-17						
PL01050	Pai Lau Superstructure	0%	65	65	27-Feb-19	18-May-19	-17						
PL01060	Material submission for finishes works	65%	21	60	05-Nov-18 A	15-Feb-19	-18						
PL01070	Material submission approval	0%	30	30	16-Feb-19	22-Mar-19	-18						
PL01080	Material Order & delivery on site	0%	45	45	23-Mar-19	20-May-19	-18						

◆ Works area access date (14-Dec-2018)

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019					
								2018	Jan	Feb	Mar	Apr	
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)													
Noise Barrier Along TWSR-West and Laying New Utilities													
NB64 & NB64A (Ch.6860-6920)-TWSR West Side													
Noise Barrier Works													
NB003350	Bus Shelter footing & shelter near NB64 - VO86	81.57%	40	217	21-May-18 A	09-Mar-19	87						
Noise Barrier Along Fanling Highway N/B													
NB60 (Ch.6450-6920)-FH N/B Side													
Noise Barrier Works													
NB02065	NB60-4 (300-408m) - Drainage Works	33.33%	16	24	11-Jan-19 A	09-Feb-19	-19						
NB02066	NB60-4 (300-408m) - Drainage Works (VO on 16-10-18 - add 3	0%	18	18	11-Feb-19	02-Mar-19	-19						
NB02070	NB60-4 - backfilling	0%	20	20	04-Mar-19	26-Mar-19	-3						
NB02080	NB60-4 - NB production	88.89%	5	45	11-Dec-18 A	24-Jan-19	147						
NB02082	NB60-4 - NB post & panel installation	0%	5	5	25-Jan-19	30-Jan-19	118						
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	04-Mar-19	30-Mar-19	-19						
NB02130	NB60-5 - backfilling	0%	12	12	01-Apr-19	15-Apr-19	-19						
NB02142	NB60-5 - NB post & panel installation	0%	5	5	21-Jan-19	25-Jan-19	26						
NB66 (Ch.6920-6930)-FH N/B Side													
Noise Barrier Works													
NB02190	NB66 - NB post & panel installation	0%	5	5	21-Jan-19	25-Jan-19	122						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
KLH.1290	West Ramp - Planting	0%	21	21	21-Jan-19	15-Feb-19	106						
KLH Bridge - Deck 1													
KLH.3430	Deck 1 - Planting	0%	21	21	21-Jan-19	15-Feb-19	106						
KLH Bridge - Deck 3													
KLH.3500	Deck 3 - Planting	0%	21	21	21-Jan-19	15-Feb-19	92						
KLH Bridge - East Ramp													
KLH.3590	East Ramp - Planting	0%	34	34	21-Jan-19	02-Mar-19	545						
KLH Bridge - Ramp R2													
Z2.KLH.1550	Ramp R2 - Steel roof	98.13%	10	536	14-Mar-17 A	31-Jan-19	117						
KLH Bridge - Staircase S1													
Z2.KLH.1464	S1 - Steel work prefabrication	53.52%	33	71	13-Dec-18 A	21-Feb-19	6						
Z2.KLH.1466	S1 - Steel frame available on site	0%	0	0		21-Feb-19	5						
Z2.KLH.1470	NB60-5 post installation completed for S1	0%	0	0	26-Jan-19		26						
Z2.KLH.1480	S1- Deck Steel Frame erection	0%	24	24	22-Feb-19	21-Mar-19	5						
Z2.KLH.1490	S1- RC deck slab	0%	12	12	22-Mar-19	04-Apr-19	5						
Z2.KLH.1500	S1 - Roof steel frame installation	0%	30	30	06-Apr-19	15-May-19	5						
Bridge Road Work													
Z2.KLH.2040	Landscape work of KLHVB	0%	60	60	21-Mar-19*	04-Jun-19	18						
Lift at TWSR-W Side													
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	21-Jan-19*	21-Jan-19	-46						
L01100	Lift installation	0%	70	70	12-Feb-19*	09-May-19	20						
L01130	Finishes work	0%	88	88	21-Jan-19	10-May-19	39						
Lift at FLHY S/B													
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	20-Jan-19	26-Jan-19	151						
L01290	Finishes work	61.36%	34	88	18-Oct-18 A	02-Mar-19	93						
L01310	Lift available - NF117-Lift 2	0%	0	0		02-Mar-19	93						
Signalized Junction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	30-Mar-19	27-Apr-19	28						
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	28-Jan-19*	05-Mar-19	0						
Z2.KLH.1052	Installation of Traffic Signal Poles at TWSR-W S/B (KLHVB)	0%	21	21	06-Mar-19	29-Mar-19	28						
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	91.11%	8	90	30-Oct-18 A	27-Jan-19	0						
Z2.KLH.1072	Ducting & cable draw inspection by EMSD (KLHVB)	0%	6	6	06-Mar-19	12-Mar-19	61						
Z2.KLH.1082	Ducting & cable draw rectification (KLHVB)	0%	12	12	13-Mar-19	26-Mar-19	61						
Noise Barrier Along Fanling Highway S/B													
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	6.31%	52	56	20-Oct-18 A	23-Mar-19	75						
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)													
Bridge Construction													
New Ho Ka Yuen Footbridge													
TWSR-West/ FL Highway N/B Side Section													
HKY1440	Remaining Finishes works of HKYFB	98.55%	9	622	21-Nov-16 A	30-Jan-19	65						
HKY1520	VO11 - slope improvement work	0%	45	45	31-Jan-19	26-Mar-19	65						
TWSR-East FL Highway S/B Side Section													
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	96.27%	25	671	13-Oct-16 A	20-Feb-19	94						
ZONE 4 (Ch. 7925 to 8700)													
Noise Barrier Along TWSR-West and Laying New Utilities													
Underground Utility Works													
DN450 DI Watermain "A" (Ch 1989-2529)													
DI0210	DN450 DI watermain laying at TWSR-W (CHA 2020)	0%	15	15	21-Jan-19	08-Feb-19	24						
DI0220	DN450 DI watermain laying at TWSR-W (CHA 2070)	0%	15	15	09-Feb-19	26-Feb-19	24						
DI0230	DN450 DI watermain laying at TWSR-W (CHA 2200)	0%	15	15	27-Feb-19	15-Mar-19	24						

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019					
								2018	Jan	Feb	Mar	Apr	
DI0240	DN450 DI watermain laying at TWSR-W (CHA 2370)	0%	15	15	16-Mar-19	02-Apr-19	29						
Noise Barrier Along Fanling Highway N/B NB75 (Ch.7930-8090)-FH N/B Side													
Noise Barrier Works													
NB4275	NB75 - NB panel installation	76.74%	10	43	20-Nov-18 A	31-Jan-19	19						
NB4280	NB75 complete	0%	0	0		31-Jan-19	19						31-Jan-19 ◆ NB75 complete
NB77 (Ch.8090-8450)-FH N/B Side													
Noise Barrier Works													
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	0%	5	5	21-Jan-19	25-Jan-19	24						
NB4530	NB77 complete	0%	0	0		25-Jan-19	24						25-Jan-19 ◆ NB77 complete
NB4570	NB77 backfilling complete	0%	0	0		21-Jan-19	-13						21-Jan-19 ◆ NB77 backfilling complete
Bridge Construction													
New Wo Hop Shek Pedstrian & Cycle Bridge													
General													
WHS1110	Wo Hop Shek Bridge Complete	0%	0	0		04-Apr-19	58						04-Apr-19 ◆ Wo Hop Shek
TWSR-West/ FL Highway N/B Side Section													
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	30%	32	45	20-Dec-18 A	28-Feb-19	58						
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0%	0	0		28-Feb-19	58						28-Feb-19 ◆ Steel Staircase ready for erection (WHS-TWSR-W side)
WHS1290	Erect Staircase (WHS-TWSR-W side)	0%	30	30	28-Feb-19	04-Apr-19	58						
WHS1420	Ramp Finishes Work	81.71%	30	164	13-Jul-18 A	26-Feb-19	89						
WHS1430	Bridge Structure complete (WHS-TWSR-W side)	0%	0	0		04-Apr-19	58						04-Apr-19 ◆ Bridge Structure complete
TWSR-West Construction													
Drainage & Road Works													
TWSR-West/ FL Highway N/B Side Section													
RDZ41180	TWSR -W Road Works rectification	0%	50	50	16-Mar-19	18-May-19	24						
Slip Road Y Construction													
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
RDZ41080	Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4)	0%	55	55	22-Mar-19	30-May-19	0						
Fanling Highway Construction													
Drainage & Road Works													
TWSR-West/ FL Highway N/B Side Section													
RDZ41112	Construct FH N/B Lane 2 (Ch8100-8600)	0%	18	18	21-Jan-19	12-Feb-19	-13						
RDZ41114	Construct FH N/B Lane 3 (Ch8100-8600)	0%	18	18	13-Feb-19	05-Mar-19	-13						
RDZ41119	Construct FH N/B lane 4 (Ch8100-8600)	0%	18	18	06-Mar-19	26-Mar-19	-13						
TWSR-East FL Highway S/B Side Section													
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	0%	60	60	21-Jan-19	02-Apr-19	5						
RDZ41140	Fanling Highway road work complete (except final pavement)	0%	0	0		26-Mar-19	-13						26-Mar-19 ◆ Fanling Highway road work complete
RDZ41150	Central Divider construction	0%	24	24	27-Mar-19	27-Apr-19	-13						
RDZ41170	Complete Slip road V and associated slope work	0%	90	90	01-Feb-19	24-May-19	19						
Other Works													
Retaining Wall W78													
TWSR-East FL Highway S/B Side Section													
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	0%	20	20	14-Jan-19 A	14-Feb-19	0						
Slope Works													
TWSR-East FL Highway S/B Side Section													
S1040	Slope S54A-Cut ~4m	0%	40	40	21-Jan-19	09-Mar-19	43						
S1050	Slope S54B-Cut ~5m	0%	40	40	21-Jan-19	09-Mar-19	43						
S1060	Slope S55-Fill ~10m	0%	30	30	15-Feb-19	21-Mar-19	0						
TCSS Works													
TCSS Pre-Construction Works													
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	21-Jan-19	21-Jan-19	579						
TCSS0230	Sign Gantry Factory production - G34 (Z4)	53.33%	14	30	01-Dec-18 A	07-Feb-19	0						
TCSS0240	Sign Gantry Factory production - G35 (Z4)	0%	32	30	05-Dec-18 A	28-Feb-19	66						
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	32	30	05-Dec-18 A	28-Feb-19	3						
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	0%	32	30	05-Dec-18 A	28-Feb-19	24						
TCSS0270	Sign Gantry Factory production - FADS8 (Z4)	0%	32	30	05-Dec-18 A	28-Feb-19	45						
Civil Provision for TCSS Works													
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	21-Jan-19	26-Feb-19	-1						
TCSS2220	Pillar box, isolator & associated duct work - PL252 for G52	0%	30	30	27-Feb-19	02-Apr-19	-1						
TCSS2230	Pillar box, isolator & associated duct work - PL251 for G51 & FL01	0%	30	30	03-Apr-19	13-May-19	-1						
TCSS2250	FL01 mounted on top of DS53	0%	30	30	11-Apr-19	20-May-19	-7						
G34													
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	21	21	08-Feb-19	04-Mar-19	0						
G35													
TCSS1800	TTA application & Approval - G35 (Z4)	53.33%	42	90	03-Jan-19 A	12-Mar-19	56						
G36													
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		04-Mar-19	0						04-Mar-19 ◆ latest date for Slow lane footing available
TCSS1830	Sign Gantry Erection - G36 (Z4)	0%	21	21	05-Mar-19	28-Mar-19	0						
DS50													
TCSS1840	TTA application & Approval - DS50 (Z4)	77.38%	19	84	02-Nov-18 A	13-Feb-19	37						
TCSS1850	Sign Gantry Erection - DS50 (Z4)	0%	21	21	29-Mar-19	26-Apr-19	0						
FADS8													
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	21-Jan-19	26-Feb-19	47						
TCSS1860	TTA application & Approval - FADS8 (Z4)	40%	54	90	06-Dec-18 A	26-Mar-19	23						
TCSS Hub Room													

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019					
								2018	Jan	Feb	Mar	Apr	
TCSS1900	TCSS Hub Room Structure	0%	45	45	21-Jan-19	15-Mar-19	-16						
TCSS1910	TCSS Hub Room Finishes	0%	45	45	16-Mar-19	13-May-19	-16						
VO Relocation of Traffic Sign at Pak Wo Road & Jockey Club Road													
VO Relocation of Traffic Sign at Pak Wo Road & Jockey Club Road													
TS01000	VO issue date (Assumed 21-Jan-19)	0%	0	0	21-Jan-19*		0						◆ VO issue date (Assumed 21-Jan-19)
TS01010	XP application period - Pak Wo Road	0%	90	90	21-Jan-19	20-Apr-19	-88						
TS01030	TTA submission & approval	0%	30	30	21-Jan-19	26-Feb-19	-28						
TS1160	XP application period - Jockey Club Road	0%	90	90	21-Jan-19	20-Apr-19	-88						
TS1170	TTA submission & approval	0%	30	30	21-Jan-19	26-Feb-19	-28						

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

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

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 18	Dec 18	Jan 19
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	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.		@	@	@
	All spraying of materials and surfaces shall avoid excessive water usage.		V	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	V
	Materials shall be dampened, if necessary, before transportation.		V	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	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	@	@

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 18	Dec 18	Jan 19
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	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*	V*	V*
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V*	V*	V*
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V*	V*	V*
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V*	V*	V*
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V*	V*	V*
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V*	V*	V*
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V*	V*	V*
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		V*	V*	V*

* Permanent noise barriers have been erected.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 18	Dec 18	Jan 19
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - 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	V	V	V
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable 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 is 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 covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	@	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 18	Dec 18	Jan 19
Waste management during construction	General Waste <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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	V
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V
	Excavated Materials <ul style="list-style-type: none"> - 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	V
	Construction Wastes <ul style="list-style-type: none"> - 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	V
	Bentonite Slurries <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#

	<p>Chemical Wastes</p> <ul style="list-style-type: none"> - 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. 		@	@	@
	<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 18	Dec 18	Jan 19
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - 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	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - 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	V
	<p>Dust generation</p> <p>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:</p> <ul style="list-style-type: none"> - 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. 		@	@	@
	<p>Surface Run-off</p> <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - 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	Implementation Status		
			Nov 18	Dec 18	Jan 19
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	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	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	V	V
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#

Legend:

- V = implemented;
- x = not implemented;
- @ = partially implemented;
- + = recommended and immediately implemented during the site inspection by the Contractor;
- N/A = not applicable - No such work was undertaken or no such material was used on site;
- # = to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

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

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

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

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

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

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

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

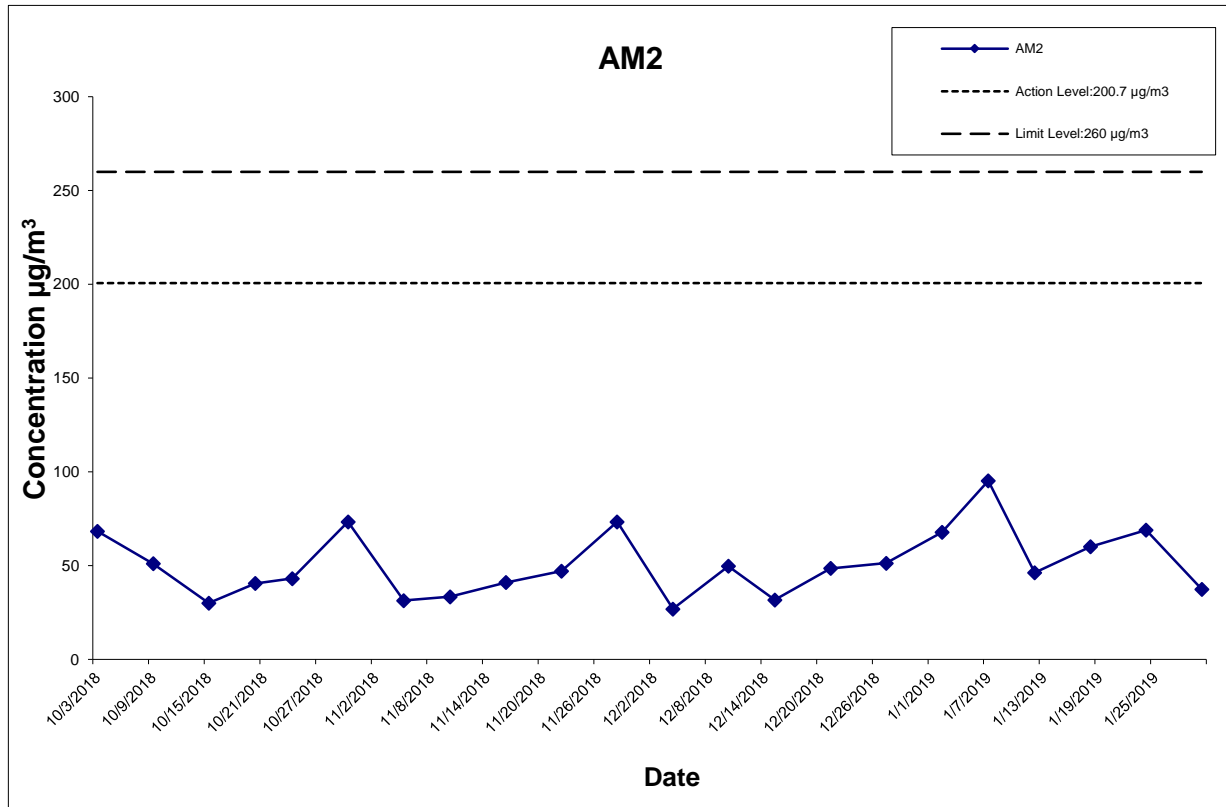
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

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

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
3-Oct-18	Sunny	26.9	1015.3	1.324	1.324	1.324	1906.6	2.6345	2.7650	0.1305	10866.02	10890.02	24.00	68.4	200.7	260
9-Oct-18	Sunny	26.5	1013.7	1.324	1.324	1.324	1906.6	2.6330	2.7305	0.0975	10890.02	10914.02	24.00	51.1	200.7	260
15-Oct-18	Cloudy	25.6	1014.6	1.324	1.324	1.324	1906.6	2.6903	2.7476	0.0573	10914.02	10938.02	24.00	30.1	200.7	260
20-Oct-18	Cloudy	24.0	1018.6	1.324	1.324	1.324	1906.6	2.6661	2.7436	0.0775	10938.02	10962.02	24.00	40.6	200.7	260
24-Oct-18	Rainy	25.2	1016.8	1.324	1.324	1.324	1906.6	2.6769	2.7592	0.0823	10962.02	10986.02	24.00	43.2	200.7	260
30-Oct-18	Fine	25.7	1014.8	1.324	1.324	1.324	1906.6	2.6823	2.8222	0.1399	10986.02	11010.02	24.00	73.4	200.7	260
5-Nov-18	Rainy	24.5	1016.8	1.324	1.324	1.324	1906.6	2.6598	2.7197	0.0599	11010.02	11034.02	24.00	31.4	200.7	260
10-Nov-18	Cloudy	23.9	1017.9	1.324	1.324	1.324	1906.6	2.6639	2.7278	0.0639	11034.02	11058.02	24.00	33.5	200.7	260
16-Nov-18	Sunny	23.9	1015.2	1.324	1.324	1.324	1906.6	2.6771	2.7555	0.0784	11058.02	11082.02	24.00	41.1	200.7	260
22-Nov-18	Rainy	20.4	1019.9	1.324	1.324	1.324	1906.6	2.6822	2.7722	0.0900	11082.02	11106.02	24.00	47.2	200.7	260
28-Nov-18	Rainy	20.3	1019.3	1.324	1.324	1.324	1906.6	2.6823	2.8222	0.1399	11106.02	11130.02	24.00	73.4	200.7	260
4-Dec-18	Sunny	24.8	1016.0	1.324	1.324	1.324	1906.6	2.6717	2.7231	0.0514	11130.02	11154.02	24.00	27.0	200.7	260
10-Dec-18	Cloudy	17.0	1019.7	1.324	1.324	1.324	1906.6	2.6618	2.7568	0.0950	11154.02	11178.02	24.00	49.8	200.7	260
15-Dec-18	Cloudy	18.9	1023.5	1.324	1.324	1.324	1906.6	2.6573	2.7179	0.0606	11178.02	11202.02	24.00	31.8	200.7	260
21-Dec-18	Sunny	22.4	1016.1	1.324	1.324	1.324	1906.6	2.6654	2.7581	0.0927	11202.02	11226.02	24.00	48.6	200.7	260
27-Dec-18	Sunny	20.6	1016.6	1.324	1.324	1.324	1906.6	2.6669	2.7649	0.0980	11226.02	11250.02	24.00	51.4	200.7	260
2-Jan-19	Sunny	14.8	1025.4	1.324	1.324	1.324	1906.6	2.6650	2.7944	0.1294	11250.02	11274.02	24.00	67.9	200.7	260
7-Jan-19	Sunny	18.5	1021.4	1.324	1.324	1.324	1906.6	2.6852	2.8668	0.1816	11274.02	11298.02	24.00	95.3	200.7	260
12-Jan-19	Rainy	20.9	1018.3	1.324	1.324	1.324	1906.6	2.6625	2.7507	0.0882	11298.02	11322.02	24.00	46.3	200.7	260
18-Jan-19	Sunny	17.1	1022.1	1.324	1.324	1.324	1906.6	2.6737	2.7885	0.1148	11322.02	11346.02	24.00	60.2	200.7	260
24-Jan-19	Sunny	16.9	1020.6	1.324	1.324	1.324	1906.6	2.6837	2.8155	0.1318	11346.02	11370.02	24.00	69.1	200.7	260
30-Jan-19	Fine	19.3	1020.8	1.324	1.324	1.324	1906.6	2.6634	2.7348	0.0714	11370.02	11394.02	24.00	37.4	200.7	260

Average for the reporting quarter (Nov 18 to Jan 19)	50.7
Minimum for the reporting quarter (Nov 18 to Jan 19)	27.0
Maximum for the reporting quarter (Nov 18 to Jan 19)	95.3



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



Graphical Presentation of Impact 24-hour TSP Monitoring Results

Project No.: 60307376

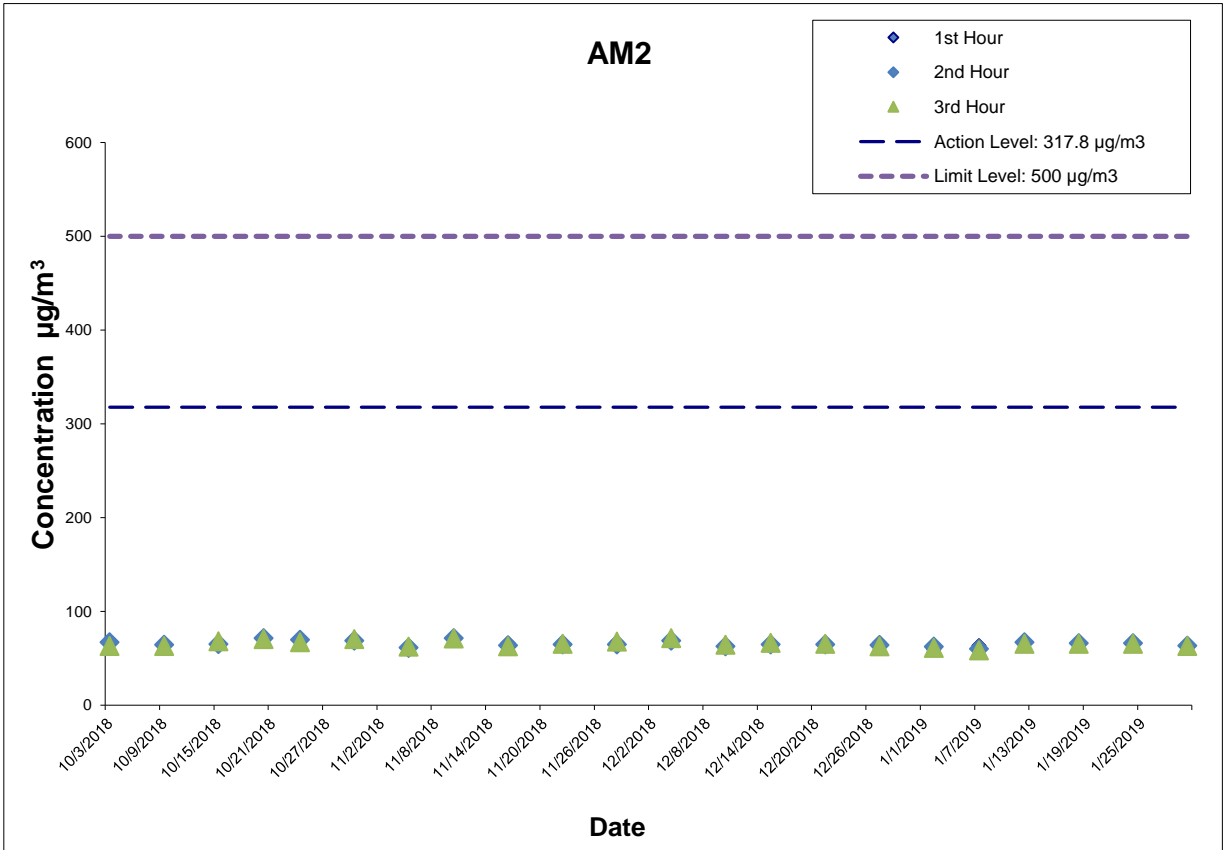
Date: Feb-19

Appendix E

Impact Air Quality Monitoring Results

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

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
3-Oct-18	11:25	65.9	67.1	63.1
9-Oct-18	11:05	62.9	64.5	63.3
15-Oct-18	10:55	67.2	65.3	68.2
20-Oct-18	13:10	71.1	71.5	70.7
24-Oct-18	13:30	68.8	69.8	67.2
30-Oct-18	13:15	68.0	68.9	70.7
5-Nov-18	10:15	58.9	61.7	62.5
10-Nov-18	13:12	70.9	71.5	71.2
16-Nov-18	10:15	66.1	64.0	62.8
22-Nov-18	10:50	66.5	64.9	65.6
28-Nov-18	9:35	67.2	64.9	67.8
4-Dec-18	10:30	70.2	68.8	71.7
10-Dec-18	10:15	61.1	62.8	64.6
15-Dec-18	10:35	65.6	64.9	66.7
21-Dec-18	9:30	65.2	64.9	65.5
27-Dec-18	14:05	66.5	64.3	62.9
2-Jan-19	10:00	59.6	62.7	61.1
7-Jan-19	13:00	63.6	60.2	58.4
12-Jan-19	10:15	67.6	67.2	65.7
18-Jan-19	12:30	65.8	66.2	65.6
24-Jan-19	12:20	65.7	66.3	65.6
30-Jan-19	11:00	62.5	63.5	63.3
Average for the reporting quarter (Nov 18 to Jan 19)				65.1
Minimum for the reporting quarter (Nov 18 to Jan 19)				58.4
Maximum for the reporting quarter (Nov 18 to Jan 19)				71.7



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



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Feb-19

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , November 2018

Year Month

Day	Hong Kong Observatory							
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)				
01	1012.5	27.4	24.6	22.6	11.6	45	84	0.0
02	1015.5	24.8	22.4	20.1	16.6	70	91	0.1
03	1016.7	23.4	21.5	19.4	19.1	86	99	8.3
04	1016.6	25.7	23.7	22.3	20.7	83	92	Trace
05	1016.8	26.7	24.5	23.5	20.5	79	77	Trace
06	1017.5	27.1	24.7	23.3	20.5	78	41	0.0
07	1017.6	27.1	25.0	23.6	20.8	77	73	0.0
08	1016.6	27.3	25.2	23.9	20.5	75	81	Trace
09	1016.8	27.1	24.5	22.9	19.4	74	82	0.0
10	1017.9	25.4	23.9	23.4	19.9	78	88	Trace
11	1017.0	25.7	23.8	22.5	19.9	79	68	0.0
12	1014.2	28.0	24.9	23.2	20.6	77	76	Trace
13	1014.1	26.3	24.3	23.2	19.9	76	80	Trace
14	1015.6	25.5	23.5	22.7	19.0	76	80	Trace
15	1015.8	23.6	23.2	22.7	19.9	82	86	Trace
16	1015.2	24.9	23.9	22.9	21.2	85	87	1.1
17	1015.8	23.8	23.5	23.1	21.3	87	96	0.5
18	1016.2	25.8	23.8	22.7	20.8	84	85	0.0
19	1017.5	25.8	23.9	22.0	19.1	75	78	0.0
20	1017.4	24.0	23.1	22.0	19.4	80	84	0.1
21	1016.4	27.2	23.9	21.2	20.4	81	82	2.4
22	1019.9	21.9	20.4	18.8	13.6	65	88	0.2
23	1020.1	23.4	20.9	18.1	14.2	66	40	Trace
24	1019.7	23.1	21.7	20.5	16.6	73	78	Trace
25	1018.8	21.6	19.5	17.4	16.5	84	95	21.0
26	1018.9	20.9	19.0	17.0	17.0	89	93	15.7
27	1019.0	22.5	20.5	19.0	17.5	83	89	16.3
28	1019.3	21.4	20.3	19.2	18.5	89	88	7.7
29	1021.0	23.3	21.3	19.8	16.7	75	46	Trace
30	1020.4	23.2	21.5	20.1	16.2	72	46	0.0
Mean/Total	1017.2	24.8	22.9	21.4	18.6	78	79	73.4
Normal [§]	1017.7	24.1	21.8	19.8	16.0	71	54	37.6

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal

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Daily Extract of Meteorological Observations , December 2018

Year Month

Day	Hong Kong Observatory								King's Park	Waglan Island [^]	
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)							
01	1018.3	24.2	22.1	21.1	18.1	78	56	0.0	6.2	***	***
02	1016.4	24.3	22.4	21.2	19.3	83	51	0.0	9.3	***	***
03	1016.5	26.0	23.7	22.0	19.8	79	58	0.0	7.2	***	***
04	1016.0	27.1	24.8	22.7	20.6	78	58	0.0	9.1	***	***
05	1015.5	24.8	23.6	22.5	20.3	82	82	Trace	0.6	***	***
06	1015.5	25.1	23.3	21.6	20.4	84	83	0.1	2.0	***	***
07	1018.5	23.3	21.1	18.5	19.1	88	90	1.0	0.0	***	***
08	1021.6	19.7	18.0	16.7	13.7	76	88	0.0	0.2	***	***
09	1021.5	18.3	17.0	16.4	12.6	75	90	Trace	0.5	***	***
10	1019.7	18.3	17.0	15.1	12.6	75	88	0.2	0.1	***	***
11	1020.3	20.4	18.0	16.5	12.0	68	84	Trace	4.9	***	***
12	1024.2	16.5	14.9	13.7	8.9	67	84	0.0	0.0	***	***
13	1025.1	18.1	15.6	13.5	9.6	68	86	0.0	2.6	***	***
14	1025.3	18.2	16.8	15.5	11.7	72	88	0.0	0.0	***	***
15	1023.5	21.2	18.9	17.2	14.3	75	64	0.0	6.6	***	***
16	1022.0	20.9	19.3	18.0	14.6	74	88	Trace	1.2	***	***
17	1022.2	21.0	18.0	15.6	9.1	56	38	0.0	8.4	***	***
18	1022.2	20.2	18.1	16.2	10.1	60	38	0.0	8.5	***	***
19	1019.5	21.5	19.9	18.5	16.0	78	78	0.0	6.4	***	***
20	1016.5	23.2	21.6	20.1	18.8	84	80	0.0	2.0	***	***
21	1016.1	25.0	22.4	21.4	19.9	86	68	0.0	8.7	***	***
22	1017.0	25.2	22.2	20.0	18.0	77	66	0.0	7.1	***	***
23	1017.6	22.5	20.1	17.5	18.2	89	96	10.5	0.0	***	***
24	1017.5	19.0	18.0	16.8	15.6	86	99	0.1	0.0	***	***
25	1015.5	21.1	19.7	18.5	16.3	81	90	0.0	0.1	***	***
26	1014.3	23.6	20.9	18.7	18.0	84	27	0.0	9.4	***	***
27	1016.6	22.8	20.6	18.9	16.7	79	77	Trace	3.5	***	***
28	1021.6	20.2	18.1	16.3	12.6	70	79	Trace	6.8	***	***
29	1026.1	16.3	14.0	12.5	8.2	68	87	Trace	0.6	***	***
30	1026.5	15.4	12.6	10.3	6.7	67	83	Trace	5.6	***	***
31	1027.0	15.6	13.2	11.8	7.4	68	77	0.0	4.4	***	***
Mean/Total	1019.9	21.3	19.2	17.6	14.8	76	75	11.9	122.0	***	***
Normal [§]	1020.5	20.2	17.9	15.9	11.9	69	52	26.8	172.2	070	26.0

*** unavailable

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

Trace means rainfall less than 0.05 mm

[§] 1981-2010 Climatological Normal, unless otherwise specified

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Daily Extract of Meteorological Observations , January 2019

Year Month

Day	Hong Kong Observatory								King's Park	Waglan Island [^]	
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)							
01	1026.5	15.9	13.8	11.4	8.0	68	84	Trace	4.6	***	***
02	1025.4	16.4	14.8	13.5	8.9	68	87	Trace	0.1	***	***
03	1024.3	17.3	16.2	14.9	13.4	84	91	0.1	0.0	***	***
04	1022.8	20.9	18.8	16.8	15.8	83	87	0.1	1.3	***	***
05	1020.5	22.7	19.8	18.9	17.6	87	88	0.0	0.5	***	***
06	1021.5	20.0	18.6	17.6	15.7	83	92	Trace	0.0	***	***
07	1021.4	20.0	18.5	17.4	15.6	83	89	0.0	0.0	***	***
08	1021.3	20.7	19.2	17.2	16.5	84	94	0.2	0.0	***	***
09	1022.3	18.7	17.8	17.2	15.1	84	89	0.0	2.7	***	***
10	1020.2	20.8	19.2	17.4	16.0	82	88	0.0	2.6	***	***
11	1018.6	23.3	20.6	18.2	17.7	84	55	0.0	6.5	***	***
12	1018.3	22.8	20.9	19.3	17.9	83	64	Trace	8.6	***	***
13	1019.3	19.8	18.5	17.7	16.8	89	91	Trace	0.0	***	***
14	1018.8	19.7	18.5	17.6	16.2	86	94	Trace	0.1	***	***
15	1018.8	21.1	19.0	17.0	16.9	88	88	4.0	1.2	***	***
16	1020.5	19.9	17.3	15.9	12.2	72	87	0.0	0.8	***	***
17	1022.2	19.5	16.7	14.6	11.3	70	55	0.0	8.1	***	***
18	1022.1	18.5	17.1	15.8	12.6	75	79	0.0	2.0	***	***
19	1019.6	21.9	18.8	17.1	14.2	75	85	0.2	1.7	***	***
20	1018.9	23.4	20.4	18.1	15.3	73	76	0.1	5.2	***	***
21	1021.8	20.0	17.8	15.8	11.0	64	66	0.0	4.2	***	***
22	1022.3	19.1	16.0	13.1	6.2	53	21	0.0	10.0	***	***
23	1021.0	19.2	16.2	13.7	8.8	62	3	0.0	9.8	***	***
24	1020.6	19.6	16.9	15.0	11.5	71	10	0.0	10.0	***	***
25	1021.2	22.2	18.7	16.1	12.3	67	13	0.0	10.2	***	***
26	1023.1	21.2	18.2	16.7	13.3	73	17	0.0	8.6	***	***
27	1023.6	19.4	16.9	15.6	11.5	71	80	0.0	7.0	***	***
28	1021.6	20.3	17.5	15.7	11.4	68	63	0.0	3.3	***	***
29	1021.4	20.5	18.5	16.9	13.7	74	39	0.0	9.8	***	***
30	1020.8	21.6	19.3	17.2	14.4	73	69	0.0	6.7	***	***
31	1018.9	24.5	21.7	18.9	17.2	76	67	0.0	7.7	***	***
Mean/Total	1021.3	20.4	18.1	16.4	13.7	76	68	4.7	133.3	***	***
Normal [§]	1020.3	18.6	16.3	14.5	11.4	74	61	24.7	143.0	060	25.3

*** unavailable

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

Trace means rainfall less than 0.05 mm

[§] 1981-2010 Climatological Normal, unless otherwise specified

**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
3-Oct-18	11:45	69.4	71.0	66.5	75	N
9-Oct-18	11:20	66.5	68.5	64.0	75	N
15-Oct-18	9:52	69.5	71.8	67.2	75	N
24-Oct-18	15:00	68.3	70.4	66.8	75	N
30-Oct-18	14:15	68.2	69.8	66.1	75	N
5-Nov-18	11:05	67.8	69.5	64.0	75	N
16-Nov-18	11:05	66.4	67.5	64.0	75	N
22-Nov-18	16:05	67.5	69.3	65.0	75	N
28-Nov-18	10:25	69.7	71.4	67.2	75	N
4-Dec-18	11:20	64.4	66.0	62.0	75	N
10-Dec-18	10:15	61.0	62.0	57.5	75	N
21-Dec-18	10:15	68.6	70.2	66.9	75	N
27-Dec-18	14:20	68.0	70.0	66.0	75	N
2-Jan-19	10:20	64.3	66.5	62.5	75	N
7-Jan-19	13:25	64.9	66.5	62.5	75	N
18-Jan-19	13:30	68.6	70.3	66.9	75	N
24-Jan-19	10:05	68.4	70.0	66.5	75	N
30-Jan-19	10:15	65.6	67.1	64.1	75	N
Minimum for Nov 18 to Jan 19		61.0	62.0	57.5		
Maximum for Nov 18 to Jan 19		69.7	71.4	67.2		
Average for Nov 18 to Jan 19		67.1	68.8	64.9		

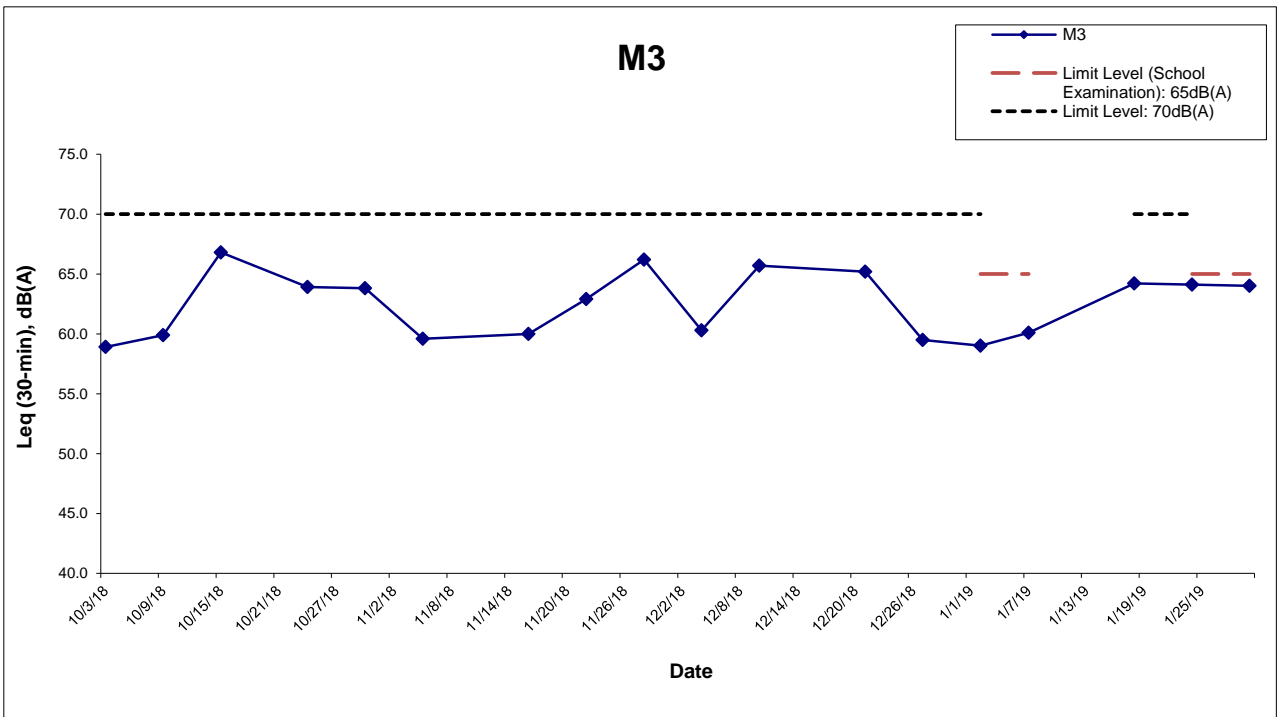
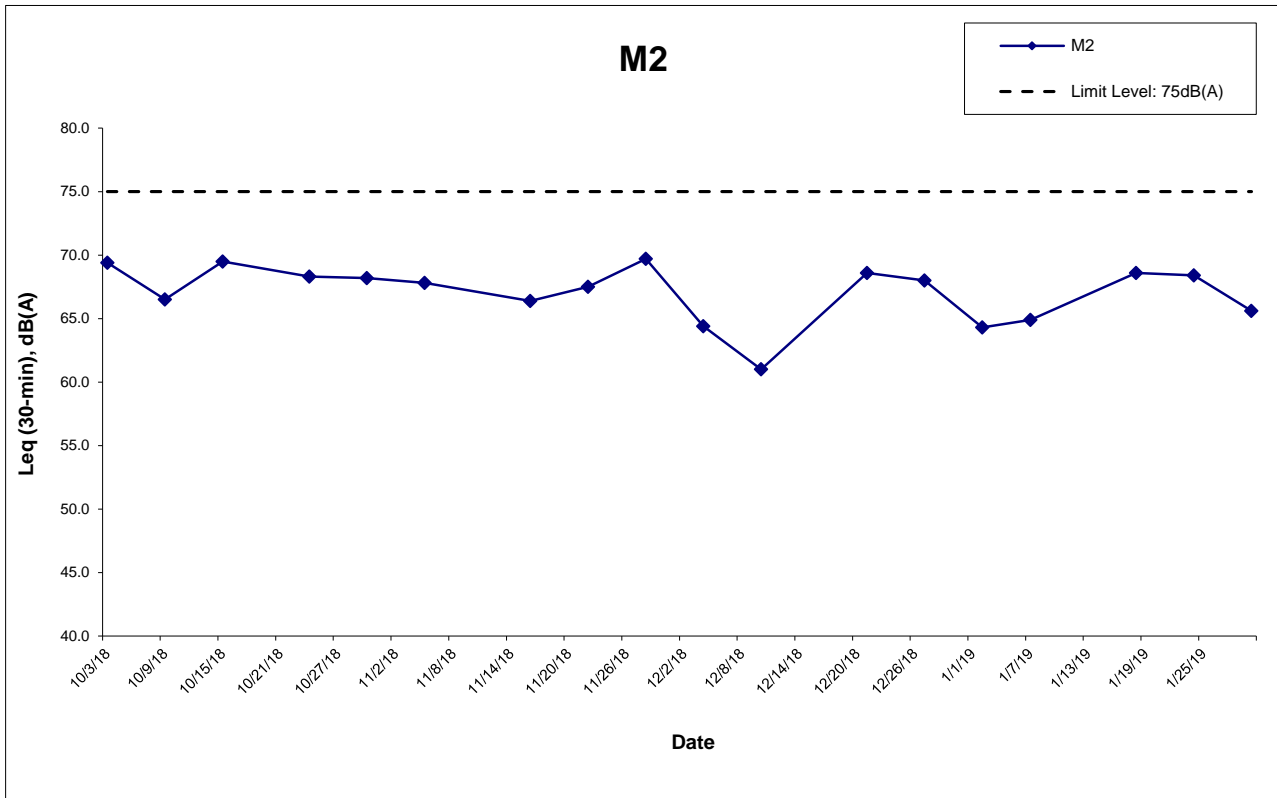
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
3-Oct-18	11:30	58.9	60.5	56.5	70	N
9-Oct-18	11:05	59.9	60.5	56.5	70	N
15-Oct-18	10:50	66.8	68.7	64.3	70	N
24-Oct-18	13:35	63.9	65.5	60.7	70	N
30-Oct-18	13:20	63.8	65.8	60.9	70	N
5-Nov-18	10:15	59.6	60.5	56.5	70	N
16-Nov-18	10:15	60.0	61.0	56.5	70	N
22-Nov-18	16:52	62.9	64.6	60.5	70	N
28-Nov-18	9:30	66.2	68.1	64.3	70	N
4-Dec-18	10:30	60.3	61.0	55.5	70	N
10-Dec-18	11:00	65.7	67.5	64.0	70	N
21-Dec-18	9:30	65.2	67.8	63.6	70	N
27-Dec-18	14:05	59.5	60.5	56.5	70	N
2-Jan-19	10:00	59.0	60.0	53.0	70	N
7-Jan-19	13:05	60.1	61.0	56.0	65	N
18-Jan-19	14:15	64.2	66.0	62.3	70	N
24-Jan-19	11:00	64.1	65.8	62.0	70	N
30-Jan-19	10:55	64.0	65.9	62.2	65	N
Minimum for Nov 18 to Jan 19		59.0	60.0	53.0		
Maximum for Nov 18 to Jan 19		66.2	68.1	64.3		
Average for Nov 18 to Jan 19		63.1	64.8	60.9		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 3 - 17 January 2019 and 25 January - 19 February 2019.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 3 - 17 January 2019 and 25 January - 19 February 2019.

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



Graphical Presentation of Impact Daytime Construction Noise
Monitoring Results

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	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	0	8
	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		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>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.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.</p>	Closed		
25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
<p>5 January 2017 (Referred by the Contractor on 13 January 2017)</p>	<p>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.</p> <p>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.</p> <p>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.</p>	<p>Closed</p>		
<p>22 May 2017 (Referred by the Contractor on 23 May 2017)</p>	<p>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.</p> <p>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).</p> <p>The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.</p>	<p>Closed</p>		

	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)	<p>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.</p> <p>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.</p> <p>The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.</p>			
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

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

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